

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P198776

Luminaire Tested: **XNV-AF-01-LED-U-T3-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198776
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (p24135)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: XNV-AF-01-LED-U-T3-1200
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6789.4 lumens
Efficiency: N/A
Efficacy: 102.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

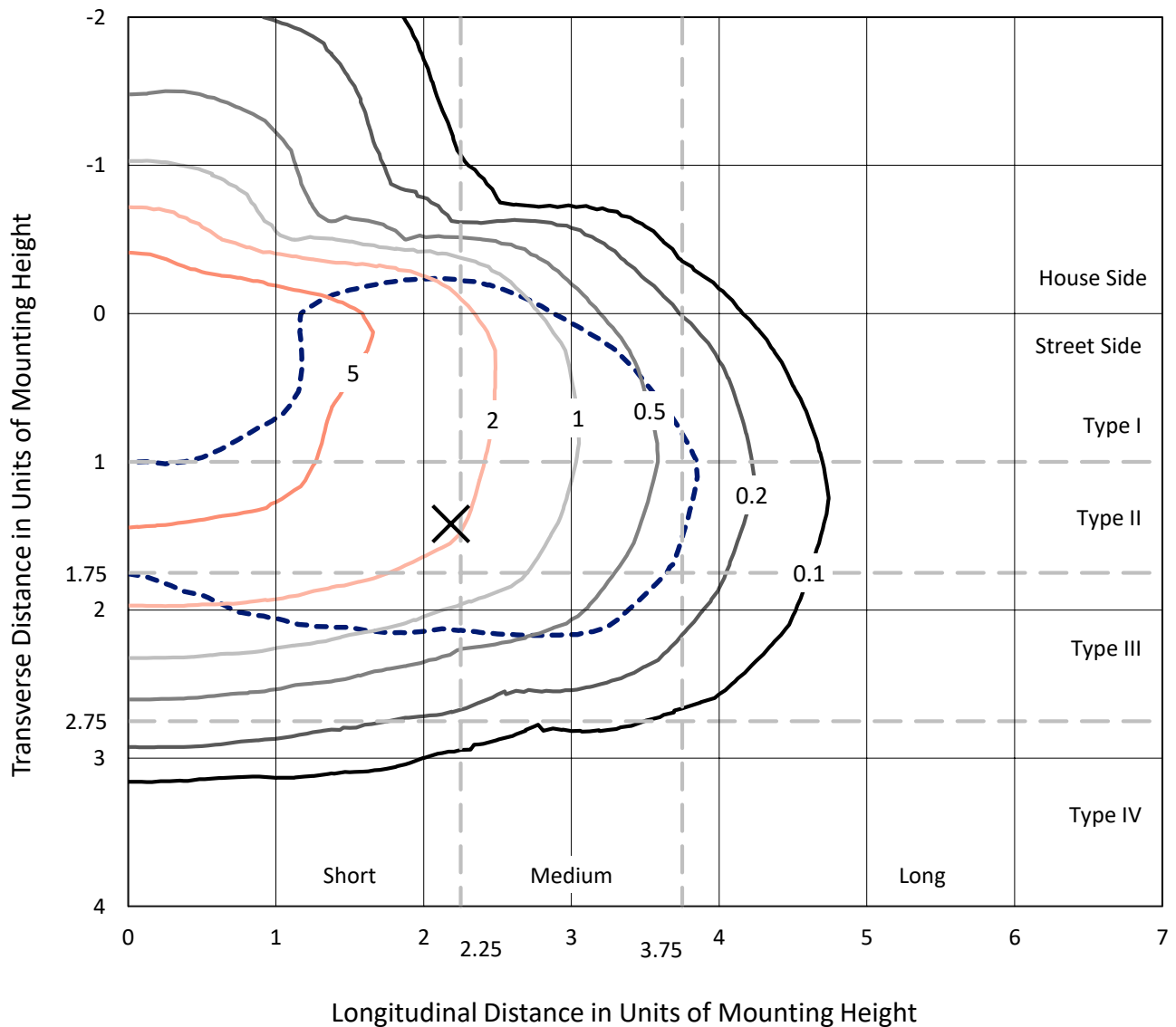
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P198776
 CATALOG NUMBER: XNV-AF-01-LED-U-T3-1200

Iso-Footcandle Lines of Horizontal Illumination

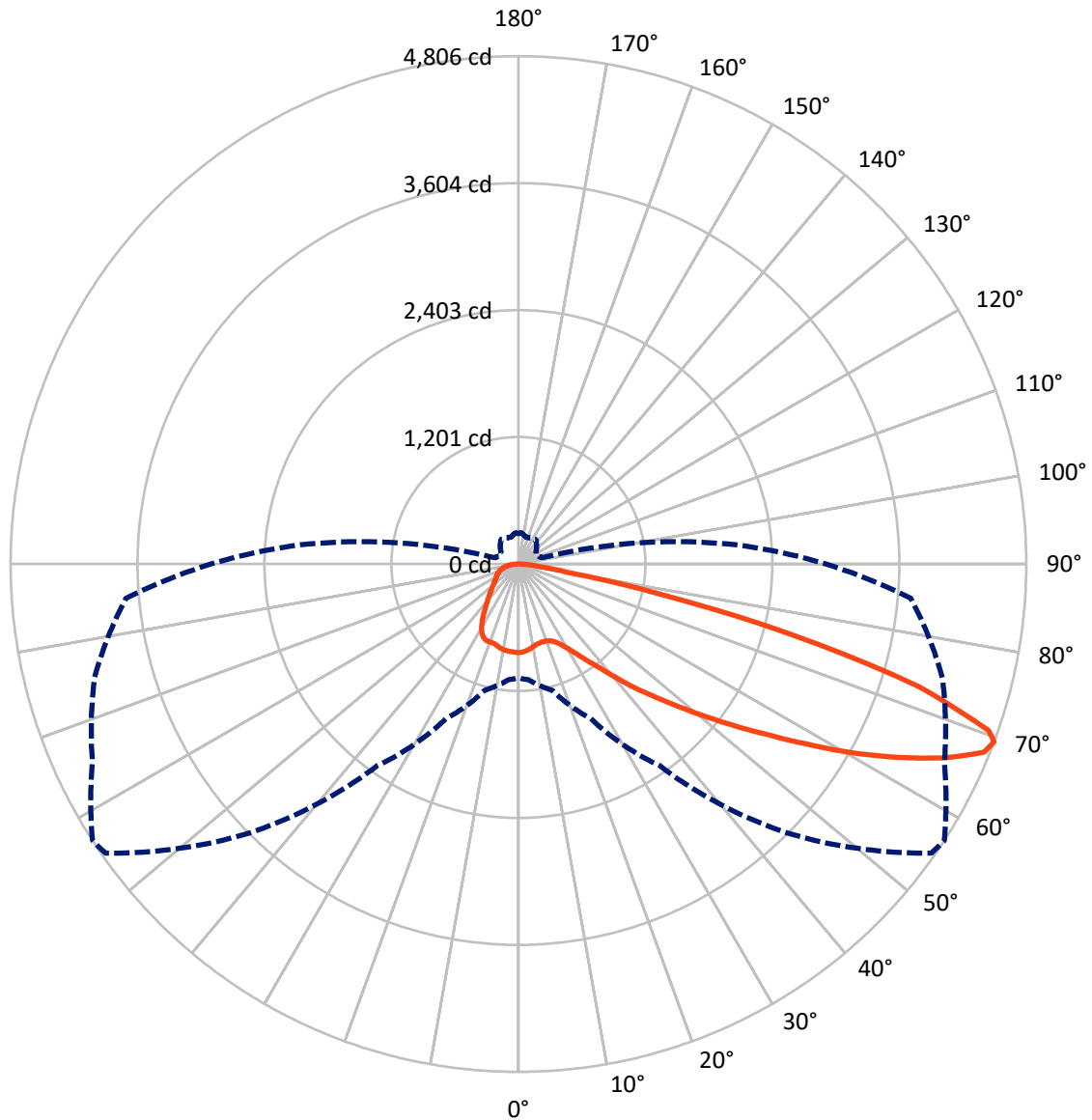
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.6 fc
 Type III - Short - Semi-Cutoff

REPORT NUMBER: P198776
CATALOG NUMBER: XNV-AF-01-LED-U-T3-1200

Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical



REPORT NUMBER: P198776

CATALOG NUMBER: XNV-AF-01-LED-U-T3-1200

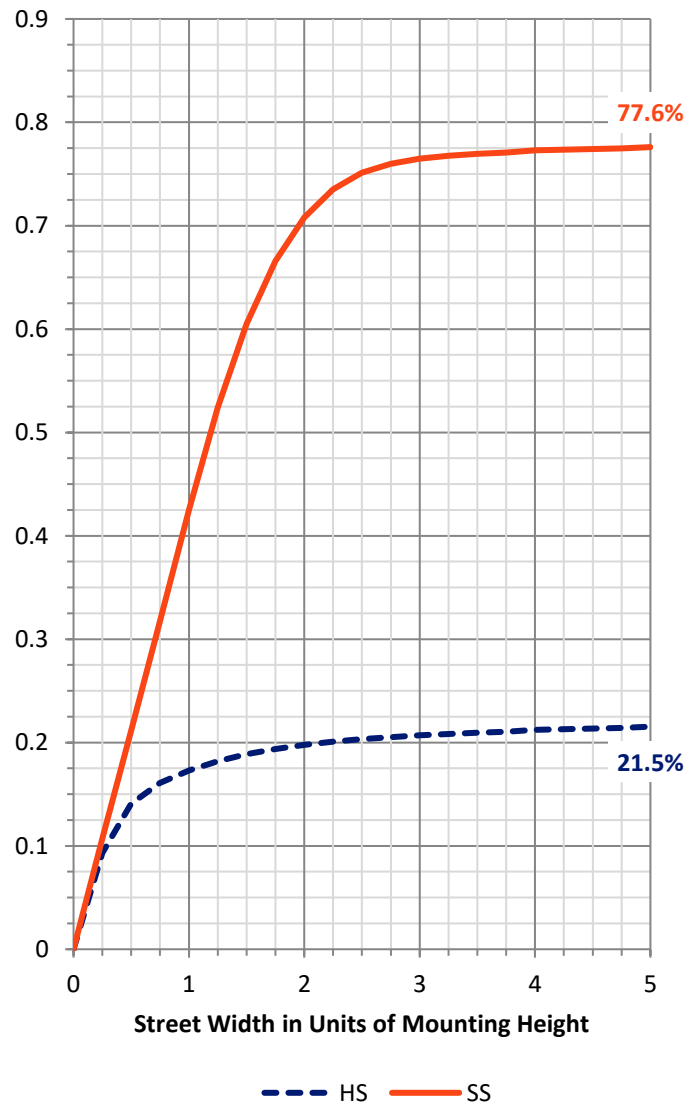
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1498.2	0.0	1498.2
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	5291.2	0.0	5291.2
	% Fixture	77.9	0.0	77.9
Total	Lumens	6789.4	0.0	6789.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.5	1.2
10°-20°	223.3	3.3
20°-30°	371.5	5.5
30°-40°	606.6	8.9
40°-50°	1023.8	15.1
50°-60°	1592.5	23.5
60°-70°	1897.0	27.9
70°-80°	883.8	13.0
80°-90°	112.4	1.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6789.4	100.0
0°-180°	6789.4	100.0



REPORT NUMBER: P198776

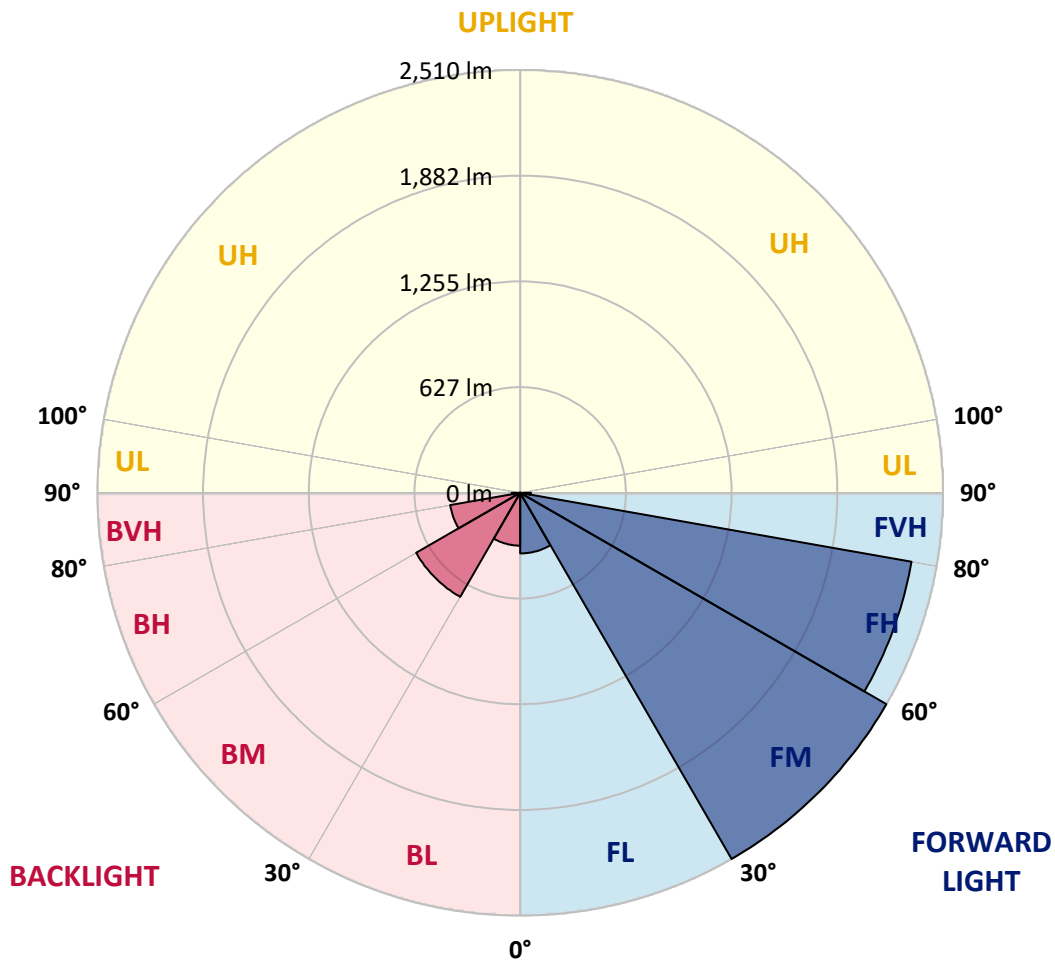
CATALOG NUMBER: XNV-AF-01-LED-U-T3-1200

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	359.6	5.3			
FM	(30°-60°)	2509.8	37.0			
FH	(60°-80°)	2358.6	34.7			G2/5000
FVH	(80°-90°)	63.2	0.9			G1/100
BL	(0°-30°)	313.7	4.6	B1/500		
BM	(30°-60°)	713.0	10.5	B1/1000		
BH	(60°-80°)	422.2	6.2	B1/500		G1/500
BVH	(80°-90°)	49.2	0.7			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short





REPORT NUMBER: P198776

CATALOG NUMBER: XNV-AF-01-LED-U-T3-1200

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	838.9	838.9	838.9	838.9	838.9	838.9	838.9	838.9	838.9	838.9	838.9
2.5°	834.1	834.1	836.3	836.3	836.3	835.4	832.8	833.7	832.0	830.6	828.5
5°	817.1	818.1	820.6	821.5	822.8	823.3	823.3	822.8	823.3	823.3	821.9
7.5°	793.7	794.5	797.6	799.3	803.2	806.7	808.4	808.4	810.6	812.3	812.8
10°	779.4	779.4	781.1	781.1	784.1	785.8	791.6	791.0	797.2	802.8	805.4
12.5°	777.6	777.6	776.7	773.7	771.9	771.5	777.1	778.1	787.2	797.2	801.9
15°	783.3	783.3	780.6	774.6	768.0	765.0	770.7	772.4	782.4	794.1	801.5
17.5°	801.5	801.1	795.4	783.3	771.9	767.2	769.0	770.7	779.8	793.3	802.4
20°	841.9	841.9	829.7	807.6	788.1	776.7	774.2	775.4	781.9	794.5	806.3
22.5°	912.8	914.1	892.3	855.8	822.4	798.4	788.1	789.3	792.4	804.6	817.5
25°	1017.1	1013.6	982.7	931.0	878.9	838.0	816.7	818.1	818.1	829.3	842.8
27.5°	1127.5	1128.4	1084.0	1028.4	959.7	898.9	865.0	864.5	864.1	874.9	889.4
30°	1252.3	1252.7	1201.4	1137.1	1058.3	980.6	929.8	929.2	925.4	938.9	957.6
32.5°	1388.8	1388.2	1328.7	1256.2	1168.8	1080.5	1014.5	1014.1	1011.0	1029.3	1051.9
35°	1540.0	1540.0	1480.9	1391.3	1297.0	1198.8	1122.3	1121.9	1123.6	1148.4	1169.6
37.5°	1722.1	1726.0	1654.7	1546.1	1443.1	1338.3	1249.2	1246.6	1233.6	1275.3	1310.5
40°	1912.1	1922.9	1849.0	1722.1	1610.8	1502.6	1404.4	1402.7	1391.3	1435.7	1492.6
42.5°	2117.6	2142.5	2060.2	1930.7	1809.5	1692.6	1593.9	1589.2	1545.7	1614.7	1703.8
45°	2387.2	2403.2	2284.1	2166.7	2052.4	1919.1	1801.6	1776.0	1732.6	1821.3	1936.9
47.5°	2570.6	2562.7	2488.4	2409.8	2336.3	2208.4	2028.1	1995.5	1942.5	2059.8	2187.2
50°	2684.4	2690.1	2648.3	2644.4	2640.5	2551.4	2283.6	2244.6	2183.3	2322.4	2471.0
52.5°	2759.6	2734.0	2741.4	2830.1	2937.4	2894.8	2572.7	2529.2	2466.2	2605.4	2773.1
55°	2728.3	2694.5	2762.7	2937.4	3190.0	3199.5	2890.0	2845.2	2791.3	2906.1	3136.5
57.5°	2598.8	2615.8	2723.6	2966.6	3362.5	3472.5	3254.7	3209.1	3103.0	3219.5	3481.6
60°	2416.7	2451.0	2615.8	2920.4	3483.4	3685.0	3655.0	3624.6	3442.0	3524.7	3844.1
62.5°	2221.1	2255.0	2457.5	2841.8	3429.0	3873.2	4047.9	4029.3	3816.3	3818.5	4074.0
65°	1932.0	1946.0	2152.9	2627.0	3278.1	4043.2	4441.3	4424.8	4174.0	4069.3	4138.3
67.5°	1459.1	1476.5	1646.4	2073.7	2819.2	3951.0	4755.6	4752.9	4389.2	4162.3	3985.4
69°	1077.5	1098.9	1237.5	1609.9	2331.1	3599.9	4770.3	4805.5	4447.4	4152.7	3726.7
70°	788.5	812.8	941.0	1277.9	1941.6	3212.1	4643.9	4719.5	4425.3	4092.3	3525.1
72.5°	335.1	343.4	406.4	576.7	984.9	1936.9	3803.6	3962.8	3996.7	3666.8	2754.0
75°	209.9	212.6	237.3	296.0	438.1	801.1	2463.2	2680.1	2983.9	2844.8	1843.8
77.5°	158.3	160.4	174.7	203.9	272.1	299.0	1142.7	1362.7	1709.0	1673.4	917.6
80°	121.2	122.5	132.2	148.2	191.7	187.3	370.7	466.0	713.3	629.4	324.7
82.5°	95.2	95.6	103.9	106.9	133.9	126.0	186.1	207.4	288.2	239.5	158.7
85°	84.3	85.6	93.9	78.3	85.6	76.1	102.2	110.9	153.0	144.3	59.9
87.5°	43.1	45.2	78.7	66.9	43.1	36.1	44.8	48.3	62.2	67.4	29.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P198776

CATALOG NUMBER: XNV-AF-01-LED-U-T3-1200

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	838.9	838.9	838.9	838.9	838.9	838.9	838.9	838.9	838.9	838.9	838.9
2.5°	828.9	829.3	830.6	832.8	836.3	840.7	845.9	851.1	854.1	856.3	855.4
5°	821.9	822.4	825.0	828.9	833.2	839.7	848.4	855.0	859.8	862.8	862.3
7.5°	813.2	814.6	819.8	824.1	830.2	835.4	842.4	848.4	853.2	856.3	855.8
10°	806.7	808.0	814.6	820.2	825.4	826.2	825.0	823.3	822.8	825.0	824.1
12.5°	803.6	806.3	812.3	816.3	814.1	805.9	796.3	792.4	791.0	795.4	795.9
15°	804.6	806.7	811.9	809.4	797.6	783.7	778.5	781.5	784.1	786.8	787.2
17.5°	806.7	808.0	809.4	799.7	783.3	774.2	772.4	769.4	761.5	757.2	756.8
20°	810.6	812.3	810.2	795.0	780.2	768.0	747.2	728.4	710.6	701.1	697.1
22.5°	824.1	825.4	818.9	804.1	781.5	741.9	699.8	667.7	640.3	625.4	619.8
25°	850.6	852.8	843.6	825.0	765.9	696.7	637.2	593.7	559.5	541.6	536.8
27.5°	897.1	899.3	889.4	840.7	729.4	636.4	564.2	521.2	491.6	476.4	474.2
30°	966.7	969.8	960.6	840.1	673.7	559.5	492.9	467.7	450.7	440.3	439.9
32.5°	1063.2	1074.5	1037.1	825.4	605.1	481.6	439.1	430.4	422.1	415.1	415.1
35°	1185.7	1212.3	1112.8	794.5	529.4	428.6	409.0	400.8	390.4	382.9	382.1
37.5°	1332.2	1373.5	1166.6	739.8	464.2	402.9	390.8	377.3	360.8	346.4	342.9
40°	1533.5	1543.0	1193.2	650.7	415.5	389.0	373.8	356.8	336.0	319.9	318.1
42.5°	1735.5	1704.3	1188.0	555.1	387.7	376.4	356.4	337.8	319.1	305.6	305.6
45°	1965.5	1845.1	1148.4	459.0	362.5	362.0	340.3	322.5	308.2	298.2	296.0
47.5°	2185.4	1971.6	1080.1	388.1	336.4	347.7	329.9	315.6	302.5	293.0	291.2
50°	2452.3	2118.1	1007.5	338.6	311.2	335.1	325.6	318.1	305.6	289.1	287.3
52.5°	2717.5	2289.4	951.4	301.3	289.1	325.1	328.2	329.1	317.3	285.1	282.9
55°	3002.2	2472.4	892.3	272.1	270.8	320.4	334.3	333.4	327.8	286.0	282.5
57.5°	3272.9	2656.2	804.1	251.6	256.5	315.6	335.5	321.6	311.7	290.3	284.7
60°	3497.3	2808.3	674.6	237.3	244.3	306.0	326.8	306.0	289.1	289.5	284.3
62.5°	3606.3	2850.9	516.0	220.9	234.3	290.3	314.3	294.3	278.7	291.2	288.2
65°	3523.3	2729.6	367.8	205.6	222.1	272.1	306.9	284.3	273.4	299.9	296.5
67.5°	3225.2	2399.3	266.9	192.1	210.4	253.4	293.0	275.2	268.2	306.5	298.6
69°	2908.2	2071.6	231.2	184.3	202.1	243.4	283.9	270.4	264.2	297.3	286.0
70°	2644.8	1819.0	213.4	179.5	195.2	237.7	276.9	267.3	260.3	286.4	272.9
72.5°	1896.4	1175.8	179.5	165.2	176.9	225.2	261.7	256.0	245.6	258.6	249.9
75°	1145.7	613.8	152.5	150.4	157.7	207.8	243.9	236.9	226.5	227.8	223.4
77.5°	526.4	283.4	127.8	133.0	137.8	186.1	222.1	214.3	204.7	201.2	201.7
80°	230.8	165.6	106.9	113.4	116.0	167.4	198.7	190.0	179.5	198.2	183.8
82.5°	124.7	96.1	83.5	87.8	95.2	145.6	172.6	161.2	151.3	176.0	142.1
85°	50.4	49.1	56.5	60.9	66.1	104.8	144.3	132.6	120.4	107.8	105.2
87.5°	21.7	23.4	27.8	29.6	35.2	65.2	97.0	84.8	85.2	73.0	71.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)