

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: P199264

Luminaire Tested: **XNV-AF-01-LED-U-T3R-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199264
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24250)
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-T3R-8030-1200
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5507 lumens
Efficiency: N/A
Efficacy: 83.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium - Full 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

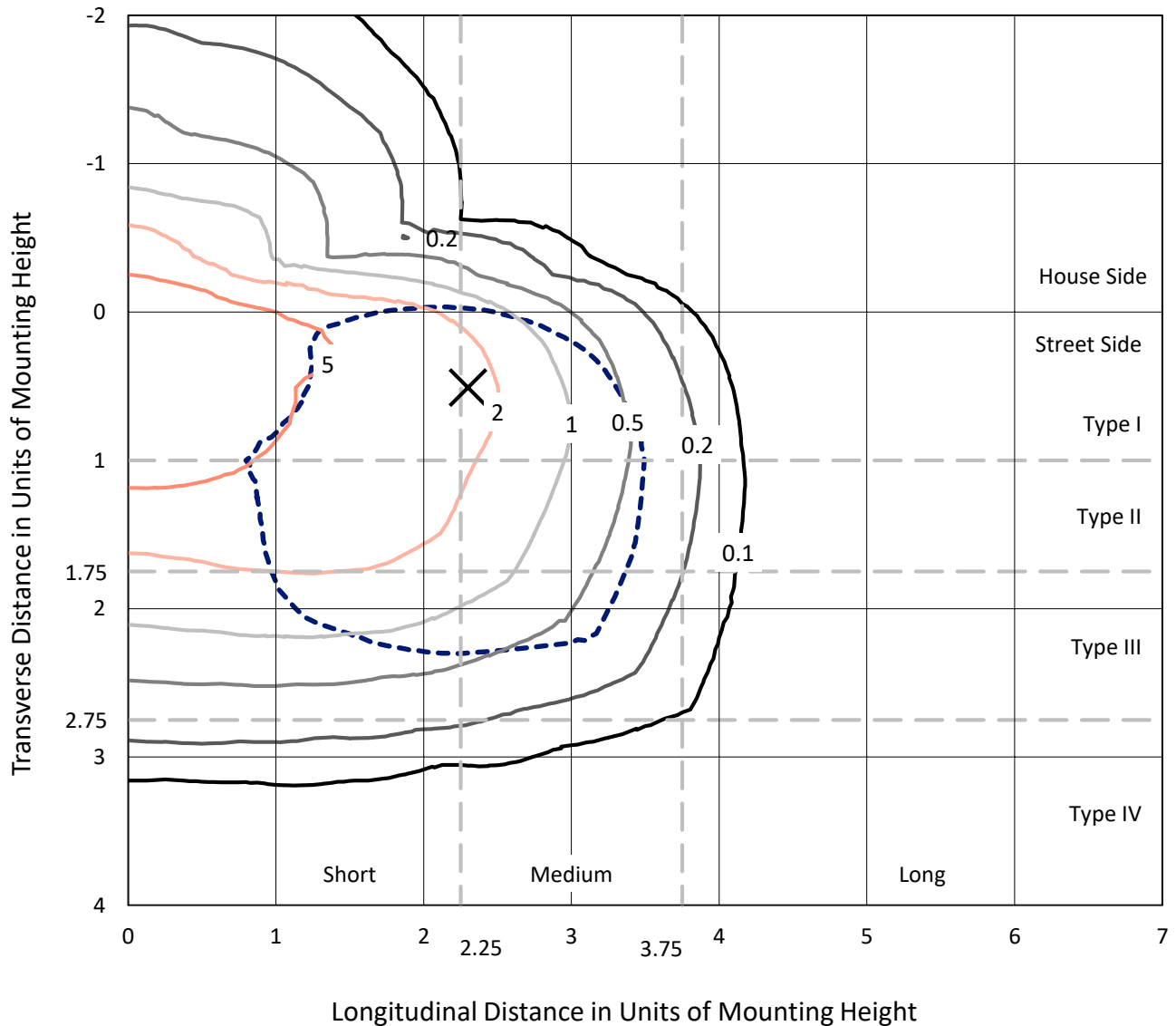


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

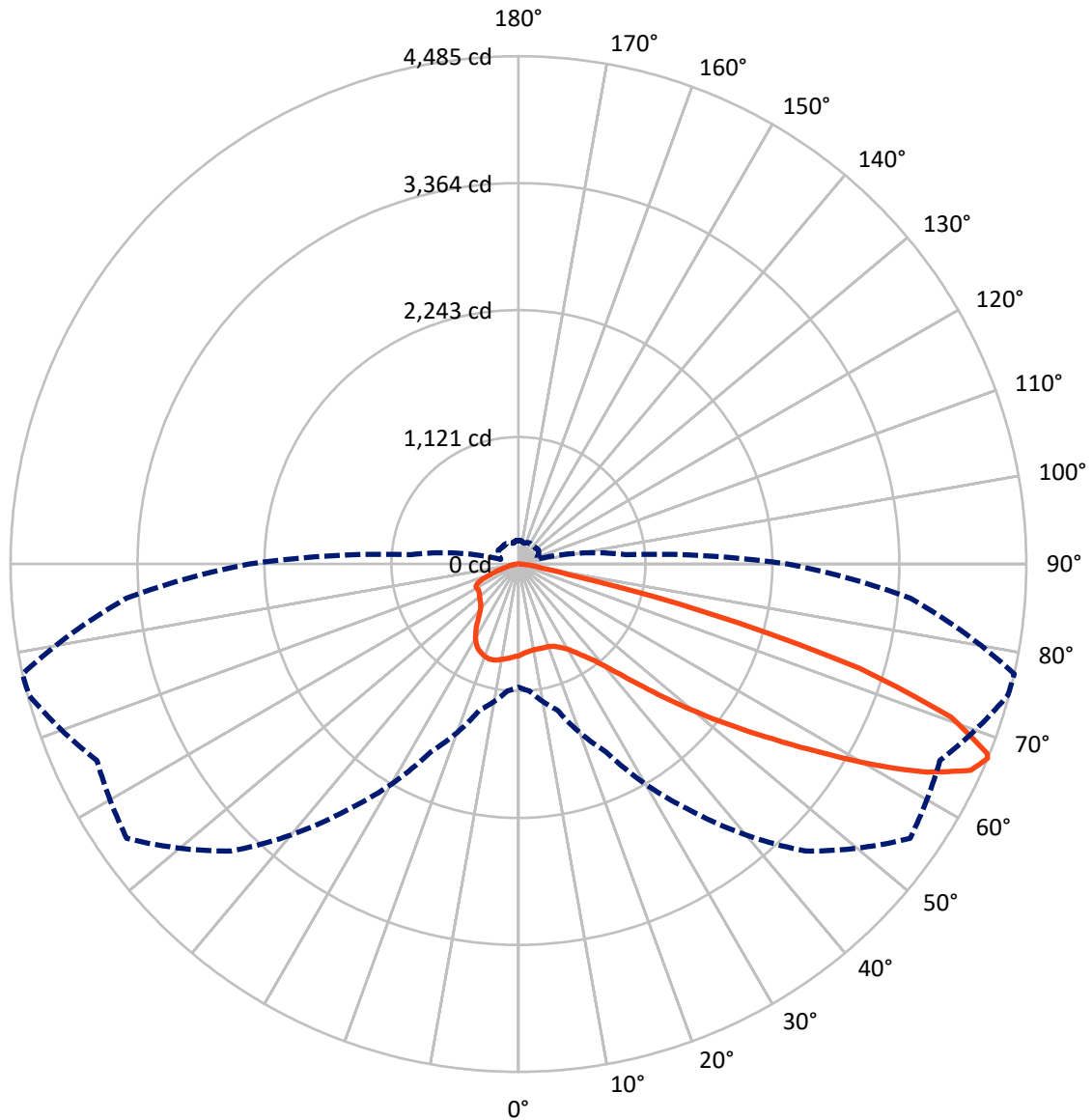


Based on 10 foot mounting height. Maximum calculated value = 9.7 fc
 Type III - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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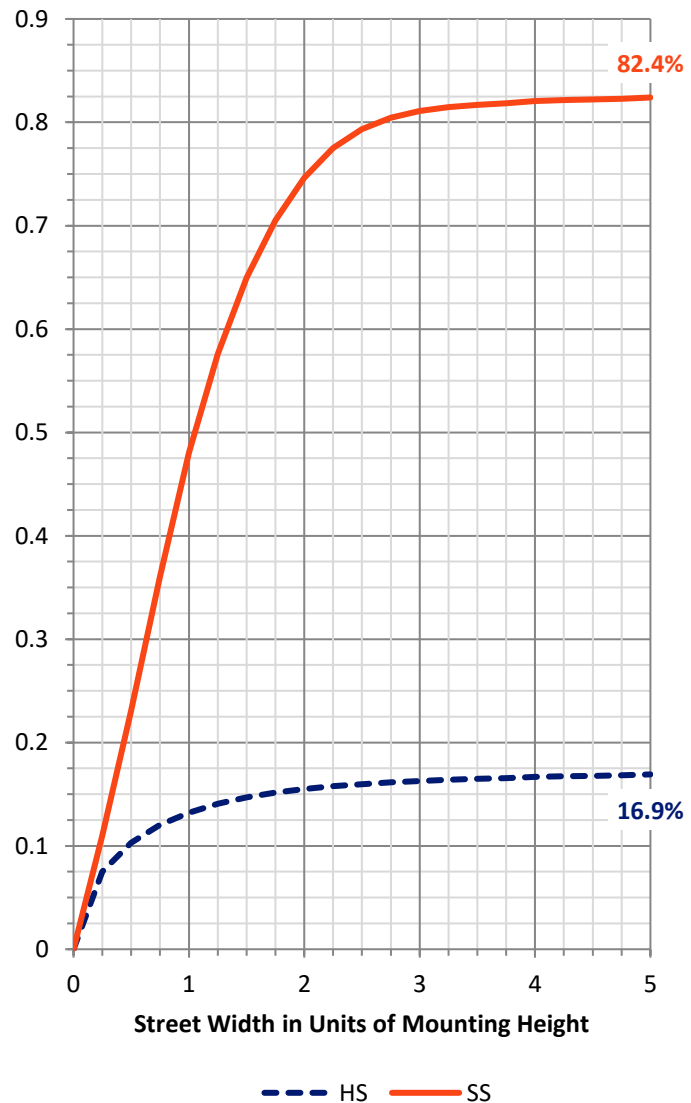
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	946.4	0.0	946.4
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	4560.6	0.0	4560.6
	% Fixture	82.8	0.0	82.8
Total	Lumens	5507.0	0.0	5507.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.2	1.3
10°-20°	199.9	3.6
20°-30°	339.7	6.2
30°-40°	543.4	9.9
40°-50°	836.5	15.2
50°-60°	1160.6	21.1
60°-70°	1548.2	28.1
70°-80°	736.8	13.4
80°-90°	69.8	1.3
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°	5507.0	100.0
0°-180°	5507.0	100.0



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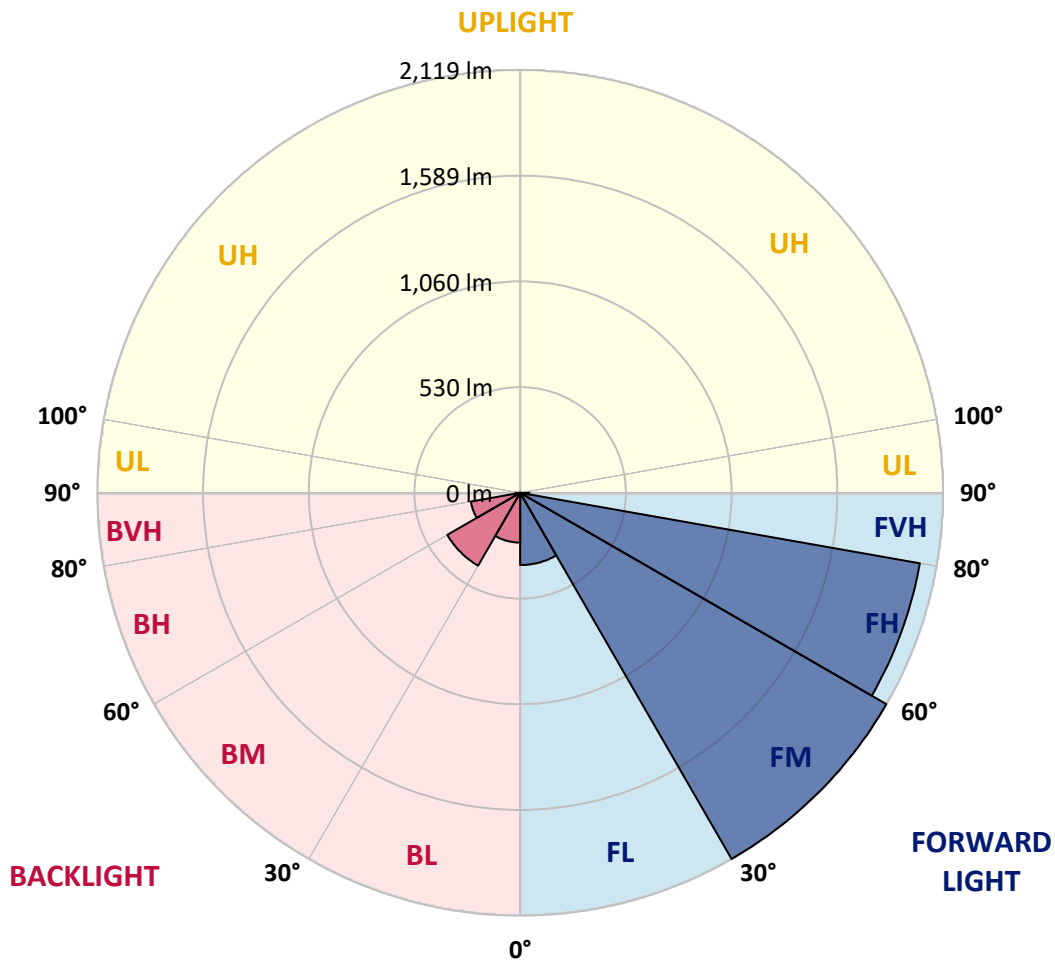
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	362.1	6.6			
FM	(30°-60°)	2119.1	38.5			
FH	(60°-80°)	2034.0	36.9			G2/5000
FVH	(80°-90°)	45.3	0.8			G1/100
BL	(0°-30°)	249.6	4.5	B1/500		
BM	(30°-60°)	421.4	7.7	B1/1000		
BH	(60°-80°)	250.9	4.6	B1/500		G1/500
BVH	(80°-90°)	24.5	0.4			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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	810.5	810.5	810.5	810.5	810.5	810.5	810.5	810.5	810.5	810.5	810.5
2.5°	726.7	730.2	730.5	740.4	744.8	756.0	768.3	779.2	788.7	792.1	798.2
5°	653.9	653.9	654.9	661.4	674.0	692.0	717.6	745.5	774.7	781.9	799.9
7.5°	615.8	616.5	617.1	623.6	633.5	649.5	675.0	713.1	761.8	773.7	805.4
10°	619.2	618.2	614.8	613.4	617.5	627.7	649.8	689.0	750.9	769.3	815.3
12.5°	672.6	670.6	659.3	643.0	628.0	624.3	639.6	676.7	745.8	769.3	831.9
15°	764.2	765.6	743.4	709.4	670.2	643.7	641.6	672.3	744.1	771.3	851.3
17.5°	883.3	884.0	853.4	804.0	739.0	684.2	655.6	672.3	744.1	773.4	870.1
20°	1010.0	1005.2	970.5	908.5	824.1	740.4	681.1	676.4	746.2	776.4	887.8
22.5°	1118.5	1114.1	1077.7	1012.7	916.0	806.7	715.5	690.0	757.4	789.0	912.6
25°	1213.5	1216.2	1180.8	1107.7	1007.6	881.6	766.9	721.3	780.9	811.8	943.2
27.5°	1328.9	1323.8	1283.0	1213.2	1101.9	959.2	831.2	760.8	808.8	839.4	980.7
30°	1462.3	1460.0	1404.8	1333.0	1205.7	1046.0	894.9	803.3	845.2	877.2	1027.7
32.5°	1624.4	1624.0	1564.8	1476.6	1322.4	1144.1	970.1	861.5	898.3	930.6	1090.0
35°	1807.8	1807.5	1746.2	1629.8	1456.9	1252.7	1058.6	932.3	964.0	998.0	1164.2
37.5°	1935.2	1933.1	1901.1	1788.1	1605.7	1378.9	1169.3	1027.7	1038.6	1076.7	1253.7
40°	1959.7	1971.9	1999.5	1932.8	1768.0	1519.2	1280.2	1130.1	1140.3	1189.3	1366.4
42.5°	1933.1	1949.1	2040.7	2059.4	1930.4	1689.1	1419.1	1272.1	1285.0	1345.9	1498.8
45°	1910.0	1923.9	2038.6	2129.5	2090.7	1874.2	1592.4	1445.3	1469.8	1545.4	1649.9
47.5°	1870.5	1883.4	1998.5	2142.1	2182.3	2052.6	1801.0	1653.6	1695.9	1787.4	1822.1
50°	1868.4	1874.2	1943.7	2099.9	2213.9	2188.1	2032.2	1897.4	1962.0	2067.6	2012.8
52.5°	1816.7	1857.2	1920.2	2032.5	2214.6	2267.0	2259.9	2164.6	2264.3	2381.1	2221.8
55°	1500.1	1546.8	1841.9	1999.5	2210.5	2334.8	2467.9	2448.8	2604.7	2727.6	2456.0
57.5°	1400.7	1420.5	1615.9	2009.4	2244.6	2446.8	2675.9	2754.2	2994.1	3128.3	2736.8
60°	1373.5	1394.3	1570.6	2014.1	2336.8	2650.7	2958.1	3099.0	3452.0	3594.3	3055.7
62.5°	1343.2	1370.1	1574.0	2018.6	2498.9	2952.3	3332.5	3473.1	3922.1	4049.0	3354.6
65°	1254.7	1290.4	1511.0	1990.6	2676.2	3330.8	3827.4	3863.2	4310.4	4391.1	3535.0
67°	1086.9	1126.0	1338.1	1829.3	2659.9	3585.7	4223.3	4107.2	4475.5	4485.4	3476.5
67.5°	1033.8	1074.3	1279.6	1762.2	2613.2	3619.1	4293.4	4140.9	4474.2	4463.3	3422.0
70°	696.1	741.7	906.1	1293.8	2096.2	3368.2	4276.4	4037.1	4180.8	4055.8	2940.0
72.5°	345.5	346.9	452.0	708.7	1270.0	2415.8	3567.4	3453.7	3389.0	3153.1	2157.4
75°	166.5	169.5	213.4	313.2	535.4	1247.2	2432.8	2330.4	1984.2	1718.0	1079.7
77.5°	127.0	130.0	165.8	203.9	223.3	406.8	1205.0	973.9	574.9	459.2	304.3
80°	98.0	103.8	139.9	156.6	147.7	163.1	378.9	298.2	223.6	205.3	150.8
82.5°	76.6	80.0	118.8	118.8	102.1	109.3	176.3	172.2	138.9	125.3	81.0
85°	54.1	60.9	95.7	88.5	67.1	67.7	105.5	101.1	71.5	57.5	31.7
87.5°	24.2	31.0	68.1	57.9	35.7	27.6	43.2	37.1	28.3	21.8	14.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	810.5	810.5	810.5	810.5	810.5	810.5	810.5	810.5	810.5	810.5	810.5
2.5°	805.0	810.5	819.0	824.1	830.9	833.6	836.4	841.1	844.9	843.8	842.1
5°	812.5	821.7	832.3	835.7	835.7	832.3	830.2	830.6	829.5	828.9	826.8
7.5°	823.4	836.0	843.5	840.1	829.5	816.3	803.7	796.2	789.0	784.6	786.0
10°	838.7	852.7	853.0	838.1	812.9	783.9	759.1	743.1	727.8	721.0	723.0
12.5°	860.9	874.8	862.9	830.6	786.3	741.0	695.4	662.4	632.8	625.7	623.6
15°	884.7	895.6	869.0	814.6	748.2	673.6	597.1	547.7	514.7	508.9	506.9
17.5°	905.5	911.6	866.0	786.0	687.9	570.5	481.3	448.0	441.2	444.6	444.6
20°	923.8	921.8	852.7	741.7	593.0	456.1	404.4	404.1	413.2	421.8	422.4
22.5°	947.0	931.0	831.6	676.0	479.6	380.6	371.7	380.6	390.8	400.3	401.3
25°	974.6	941.2	803.3	582.4	385.7	345.5	349.2	356.7	363.2	370.7	371.0
27.5°	1002.1	949.0	763.5	472.5	334.6	323.0	327.1	330.2	331.9	336.7	336.7
30°	1034.1	955.2	706.0	378.5	311.1	303.3	300.9	299.5	300.9	307.4	307.7
32.5°	1074.3	966.0	627.4	324.7	300.2	289.3	277.1	270.3	275.0	286.6	288.7
35°	1119.9	979.0	533.1	303.3	296.5	282.5	260.1	249.5	251.2	261.8	263.5
37.5°	1177.1	995.7	440.1	298.2	300.2	281.8	252.2	237.3	229.8	230.1	229.8
40°	1250.3	1012.3	366.6	299.5	308.4	283.6	248.5	225.0	209.3	210.0	211.4
42.5°	1326.9	1023.2	320.0	303.6	318.3	285.9	247.1	213.1	199.5	211.0	221.6
45°	1416.4	1020.2	295.8	307.4	325.8	287.0	242.0	211.7	200.5	235.2	255.0
47.5°	1519.2	1006.9	282.2	309.1	327.8	286.6	238.3	216.2	209.0	269.3	291.7
50°	1630.8	986.1	271.3	306.4	326.8	285.3	242.4	221.6	212.4	276.7	294.1
52.5°	1753.0	967.1	260.1	300.2	321.7	281.2	247.5	219.2	202.9	255.0	268.2
55°	1897.7	962.6	247.5	289.7	313.2	276.7	244.7	211.7	192.3	226.0	234.2
57.5°	2063.1	990.2	231.1	276.7	301.6	267.9	238.3	207.6	188.6	205.6	210.0
60°	2273.2	1051.1	213.8	263.1	287.3	254.6	232.5	208.7	189.6	202.5	203.6
62.5°	2437.2	1106.0	198.1	246.4	268.2	238.6	226.4	209.7	192.7	206.6	204.9
65°	2496.8	1079.1	178.7	221.6	241.3	220.9	217.9	210.4	192.7	209.0	205.3
67°	2374.6	950.7	160.3	196.7	215.8	205.3	209.7	207.6	189.3	208.7	202.2
67.5°	2316.4	905.5	155.6	192.7	209.0	200.5	207.6	206.3	188.2	208.0	200.5
70°	1910.3	649.5	131.4	161.7	175.0	176.7	195.0	197.4	180.1	195.4	181.8
72.5°	1359.2	406.4	113.4	125.3	141.3	151.1	178.0	185.5	169.2	169.9	158.6
75°	672.6	218.2	101.1	96.7	109.9	125.9	155.2	169.2	153.2	141.6	137.9
77.5°	227.0	123.6	85.4	78.0	85.4	101.1	128.7	147.7	135.1	119.8	117.4
80°	117.4	89.9	66.7	62.6	67.4	78.3	100.8	122.9	115.4	116.1	95.7
82.5°	73.2	54.8	48.0	47.7	51.1	59.9	74.2	99.7	99.1	84.8	61.6
85°	34.0	31.7	30.6	31.7	32.7	34.0	48.3	71.1	75.2	45.6	40.5
87.5°	14.3	14.0	12.3	13.3	14.6	14.3	19.4	30.3	42.2	28.6	26.2
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)