

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: P199216

Luminaire Tested: **XNV-AF-01-LED-U-SL4-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199216
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24284)
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-SL4-8030-1200
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5164 lumens
Efficiency: N/A
Efficacy: 78.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

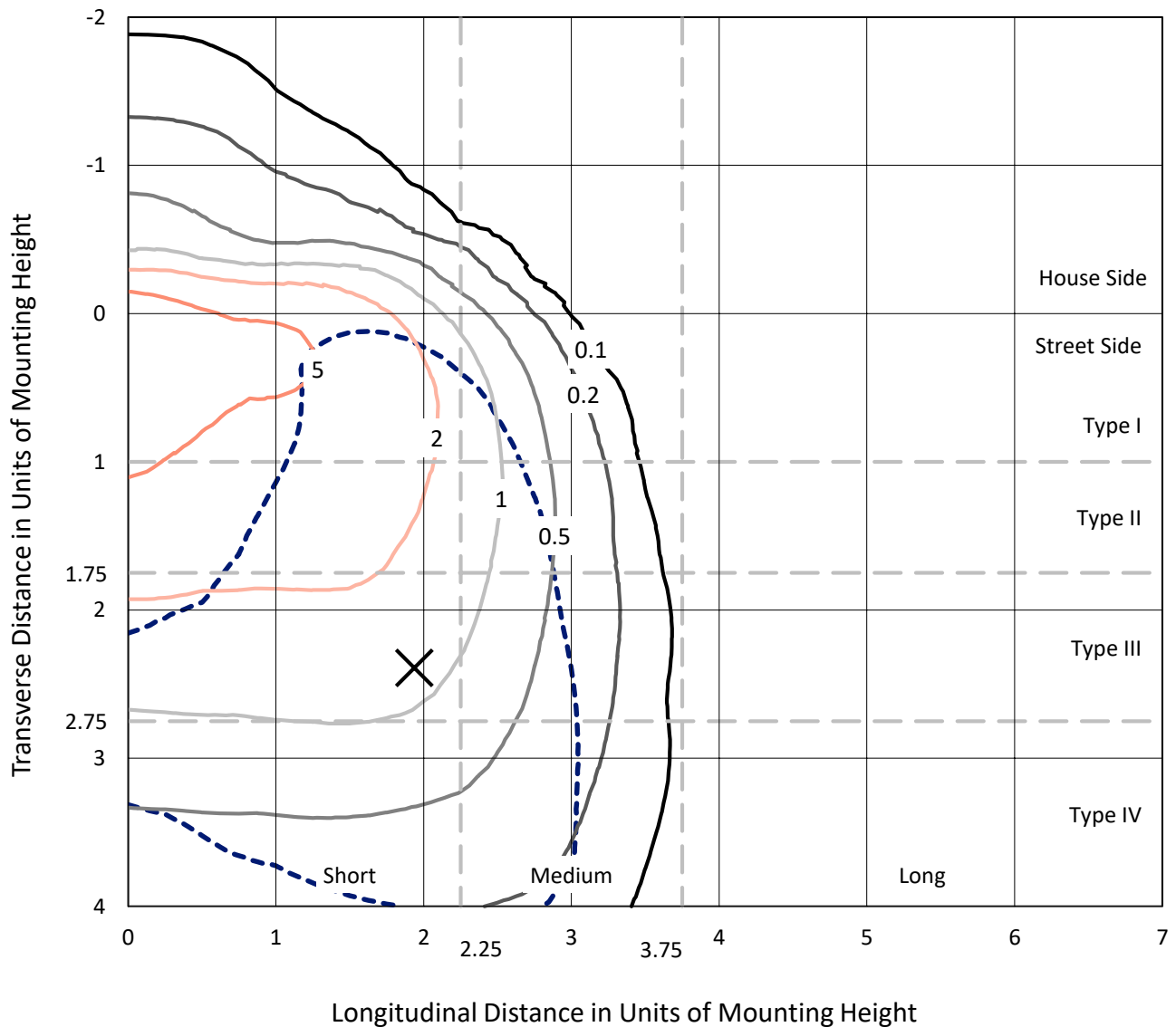
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P199216
 CATALOG NUMBER: XNV-AF-01-LED-U-SL4-8030-1200

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

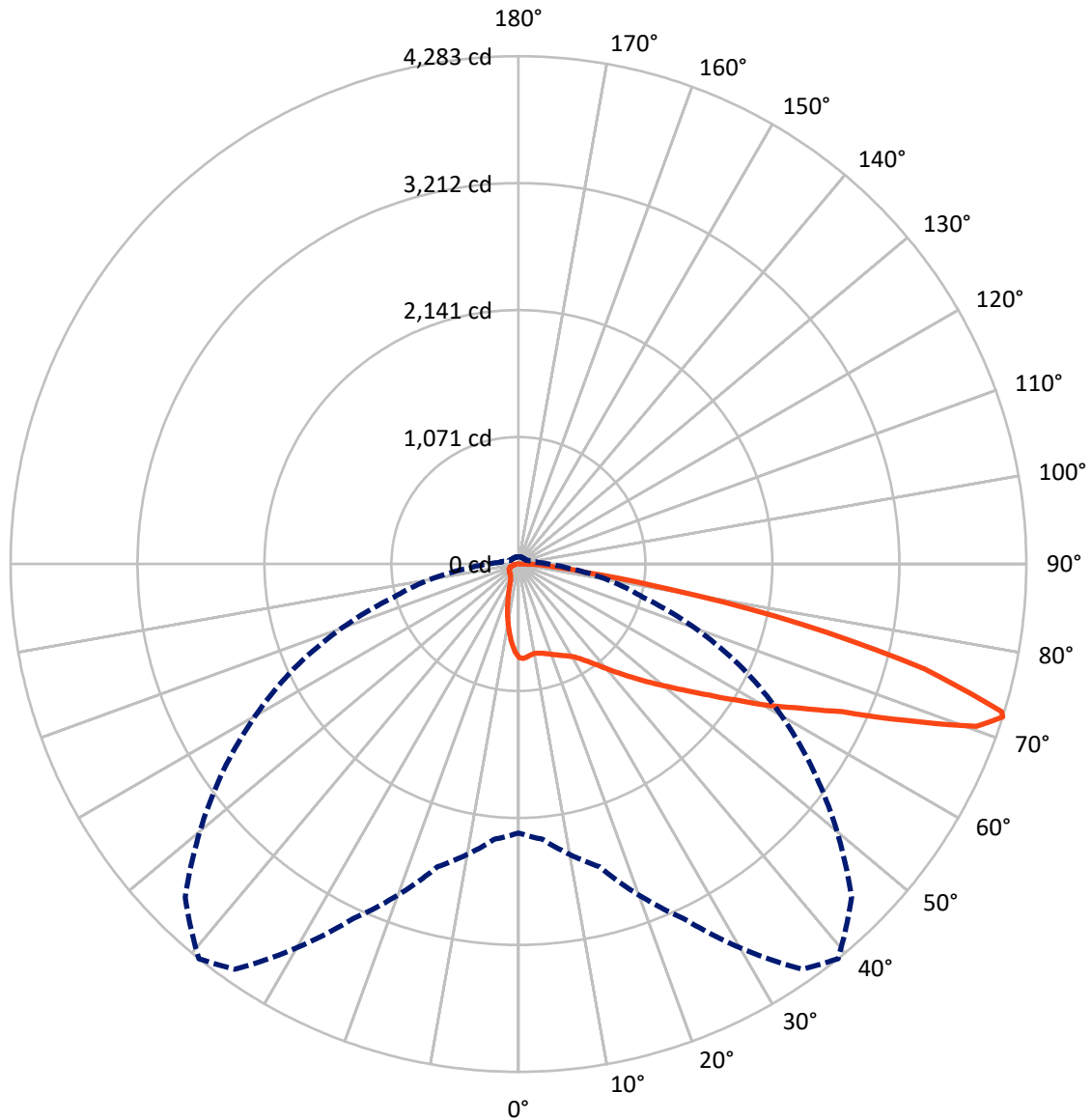


Based on 10 foot mounting height. Maximum calculated value = 7.9 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P199216

CATALOG NUMBER: XNV-AF-01-LED-U-SL4-8030-1200

Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical



REPORT NUMBER: P199216

CATALOG NUMBER: XNV-AF-01-LED-U-SL4-8030-1200

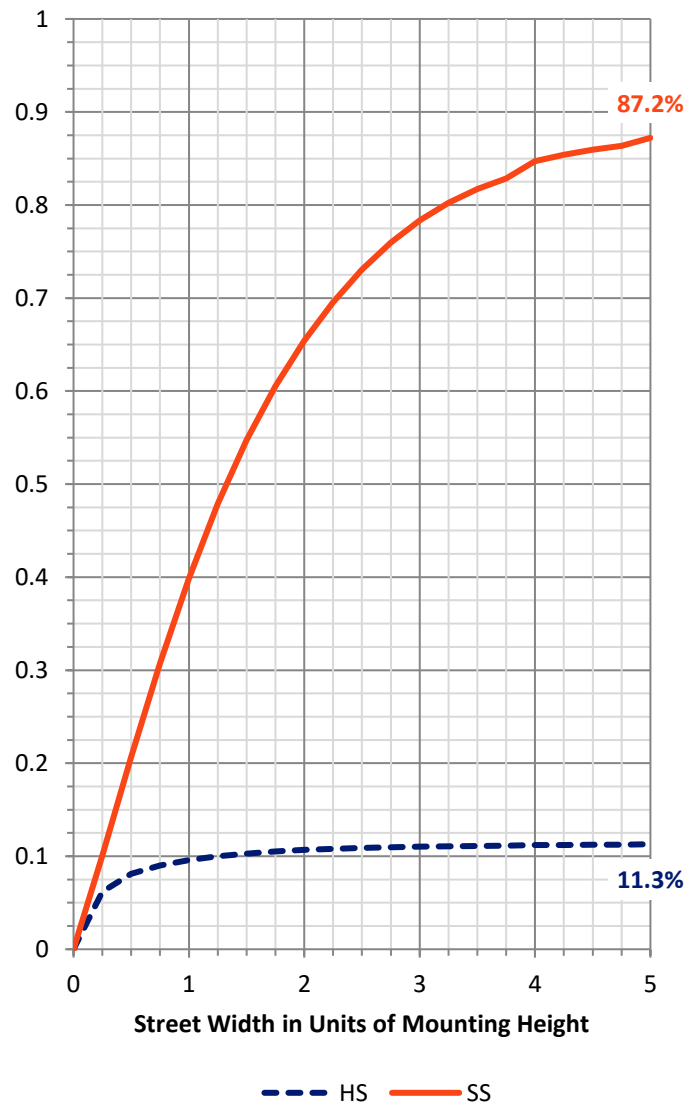
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	592.1	0.0	592.1
	% Fixture	11.5	0.0	11.5
Street Side	Lumens	4571.9	0.0	4571.9
	% Fixture	88.5	0.0	88.5
Total	Lumens	5164.0	0.0	5164.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.8	1.3
10°-20°	170.3	3.3
20°-30°	265.4	5.1
30°-40°	408.6	7.9
40°-50°	666.1	12.9
50°-60°	1035.1	20.0
60°-70°	1385.4	26.8
70°-80°	996.3	19.3
80°-90°	168.9	3.3
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°	5164.0	100.0
0°-180°	5164.0	100.0

Coefficient of Utilization



REPORT NUMBER: P199216

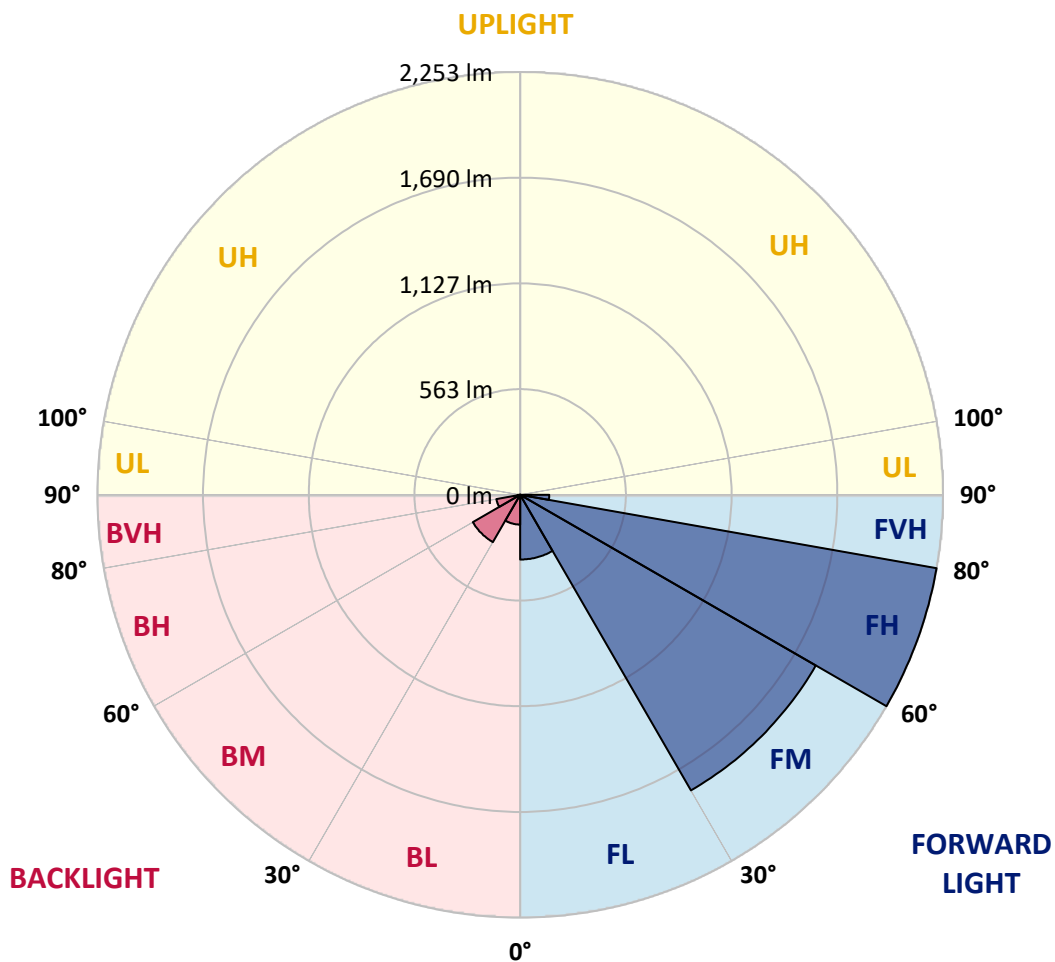
CATALOG NUMBER: XNV-AF-01-LED-U-SL4-8030-1200

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	344.9	6.7			
FM (30°-60°)	1818.9	35.2			
FH (60°-80°)	2253.1	43.6			G2/5000
FVH (80°-90°)	154.9	3.0			G2/225
BL (0°-30°)	158.5	3.1	B1/500		
BM (30°-60°)	291.0	5.6	B1/1000		
BH (60°-80°)	128.7	2.5	B1/500		G1/500
BVH (80°-90°)	14.0	0.3			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 IV Short





REPORT NUMBER: P199216

CATALOG NUMBER: XNV-AF-01-LED-U-SL4-8030-1200

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	788.6	788.6	788.6	788.6	788.6	788.6	788.6	788.6	788.6	788.6	788.6
2.5°	805.6	806.0	804.9	801.8	799.0	797.6	795.2	791.1	785.5	781.7	778.6
5°	798.0	799.0	798.3	793.1	788.3	785.5	781.7	775.8	768.5	765.4	758.1
7.5°	792.1	792.8	790.7	784.8	775.5	772.0	765.1	757.4	750.9	746.3	737.7
10°	787.9	788.6	786.9	781.0	770.6	766.4	758.1	749.8	741.1	735.6	725.9
12.5°	782.0	783.4	783.4	780.7	773.7	771.0	762.6	753.6	745.7	739.8	727.6
15°	781.0	782.7	785.9	785.5	783.4	781.4	774.8	765.8	758.8	751.9	737.0
17.5°	789.7	793.5	799.7	801.8	800.4	795.9	788.3	780.0	772.3	765.8	747.4
20°	811.5	813.6	823.0	827.1	820.2	813.6	803.5	792.8	785.9	780.7	757.1
22.5°	844.4	847.2	854.8	855.2	840.6	832.7	819.8	806.7	800.1	798.0	770.3
25°	897.1	896.4	898.5	889.9	863.5	854.2	838.6	823.3	818.8	823.0	789.7
27.5°	960.2	958.5	951.9	929.4	889.5	877.4	858.7	845.1	845.1	854.8	816.0
30°	1033.0	1031.3	1009.8	972.0	920.4	906.5	886.7	872.5	879.8	898.5	851.7
32.5°	1110.0	1103.7	1073.6	1023.0	964.4	949.1	930.1	915.5	929.4	961.3	903.0
35°	1182.4	1179.0	1141.9	1081.9	1021.2	1008.4	995.2	977.2	999.4	1049.0	975.5
37.5°	1257.3	1254.5	1209.1	1145.3	1090.6	1081.9	1070.8	1058.3	1094.0	1159.2	1073.6
40°	1340.9	1335.3	1278.1	1214.3	1171.3	1167.2	1161.3	1157.8	1215.4	1312.4	1197.7
42.5°	1435.5	1424.7	1350.9	1290.2	1259.4	1262.9	1259.7	1273.6	1361.7	1489.2	1345.4
45°	1543.6	1522.2	1423.4	1371.0	1356.8	1370.7	1377.3	1412.6	1534.6	1693.4	1510.4
47.5°	1644.9	1617.1	1502.7	1458.7	1466.7	1490.6	1509.3	1571.7	1724.3	1895.2	1678.8
50°	1738.1	1706.9	1587.7	1549.5	1588.4	1622.3	1661.2	1749.2	1926.0	2102.8	1833.4
52.5°	1807.1	1784.6	1672.6	1648.7	1728.1	1773.1	1835.2	1946.5	2129.8	2300.7	1971.4
55°	1860.5	1848.4	1755.5	1762.4	1886.1	1950.6	2025.8	2153.8	2345.5	2478.2	2082.3
57.5°	1922.2	1913.2	1850.1	1899.7	2082.3	2163.5	2252.2	2394.3	2550.7	2634.6	2169.4
60°	1987.4	1987.4	1955.5	2065.0	2327.8	2420.7	2509.1	2619.7	2755.2	2775.3	2204.7
62.5°	2036.6	2049.4	2060.9	2241.1	2560.7	2676.2	2773.2	2879.3	2967.0	2844.6	2121.5
65°	2108.0	2135.4	2199.9	2444.6	2849.1	3000.3	3131.3	3220.4	3138.6	2789.5	1850.1
67.5°	2230.7	2271.3	2408.5	2747.6	3290.8	3517.1	3644.4	3490.4	3105.0	2442.5	1417.1
70°	2341.3	2398.5	2633.2	3132.0	3864.8	4099.9	4041.3	3427.7	2704.2	1790.5	871.8
72°	2267.8	2330.2	2643.6	3299.4	4171.6	4282.6	3973.7	3037.7	2089.6	1092.7	429.8
72.5°	2219.6	2284.4	2610.0	3295.3	4179.9	4259.3	3879.7	2882.8	1896.9	956.1	347.7
75°	1854.2	1909.7	2244.2	2920.6	3683.5	3537.9	3027.7	1865.7	871.8	308.9	178.9
77.5°	1210.9	1253.2	1547.5	2023.4	2580.1	2440.1	1842.8	873.6	326.9	187.5	134.5
80°	608.4	638.5	828.2	1063.9	1392.5	1281.2	850.7	422.6	218.7	135.5	105.7
82.5°	423.3	451.0	570.2	543.2	582.0	563.3	400.0	352.5	163.6	85.6	55.5
85°	355.0	383.7	471.8	387.2	316.8	288.8	286.7	333.1	108.2	42.3	46.8
87.5°	309.6	353.2	389.3	282.9	217.4	191.7	211.1	305.4	34.3	23.2	14.2
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: P199216

CATALOG NUMBER: XNV-AF-01-LED-U-SL4-8030-1200

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	788.6	788.6	788.6	788.6	788.6	788.6	788.6	788.6	788.6	788.6	788.6
2.5°	773.4	772.3	767.1	759.2	753.3	749.5	742.2	741.8	742.5	736.3	738.7
5°	751.5	747.4	733.9	715.5	700.6	686.4	670.8	665.6	661.1	651.7	652.7
7.5°	728.7	721.4	697.8	667.7	638.9	612.5	586.5	573.7	564.0	551.9	551.9
10°	715.1	703.7	667.7	623.6	577.9	539.4	500.6	477.3	460.4	444.8	443.7
12.5°	714.5	697.1	646.9	586.2	523.4	469.4	416.3	380.6	355.3	336.9	335.2
15°	720.0	695.7	629.5	551.2	472.1	401.8	336.3	290.8	258.6	238.2	236.1
17.5°	724.9	694.0	610.8	514.4	422.2	336.6	263.8	216.7	186.2	169.5	167.8
20°	729.4	690.2	586.9	475.6	367.1	275.6	206.3	168.1	148.0	138.7	137.6
22.5°	735.9	686.7	561.9	431.9	313.0	224.3	170.2	142.8	132.1	127.6	126.9
25°	746.7	687.1	537.7	387.2	263.5	186.8	147.3	130.3	124.4	121.3	121.3
27.5°	762.3	691.2	513.7	341.8	221.5	161.2	133.8	123.8	119.9	117.5	116.8
30°	785.2	698.9	488.4	298.8	188.2	143.5	125.8	119.6	116.5	114.4	114.0
32.5°	818.4	712.4	461.7	259.6	162.9	131.0	119.9	116.1	113.7	112.0	111.6
35°	868.0	736.3	435.7	226.4	144.9	122.0	115.1	112.0	110.6	109.9	109.5
37.5°	940.8	774.8	411.1	200.4	133.1	116.1	110.2	108.5	107.8	107.8	107.8
40°	1032.3	825.4	388.9	182.0	126.5	111.6	106.8	105.4	105.4	105.7	105.7
42.5°	1143.6	888.8	369.9	169.5	122.7	108.5	104.3	103.6	103.3	103.3	103.6
45°	1272.9	963.7	358.1	159.8	119.9	106.8	102.6	102.3	100.9	100.2	100.2
47.5°	1402.9	1043.8	357.4	154.3	116.5	104.7	100.9	100.9	98.1	96.7	97.1
50°	1524.2	1115.5	365.0	152.9	114.4	101.6	99.1	99.5	95.7	93.9	93.6
52.5°	1622.0	1170.3	374.4	154.6	114.4	98.8	96.0	97.8	93.6	91.5	91.2
55°	1697.6	1208.4	377.9	158.4	115.8	96.4	93.2	96.0	92.9	90.1	90.1
57.5°	1751.6	1220.6	362.9	160.2	117.9	96.0	90.5	95.7	93.9	90.5	90.5
60°	1731.9	1150.2	307.5	153.6	117.5	95.3	88.4	96.4	97.4	93.6	93.6
62.5°	1577.6	962.3	246.8	138.7	111.6	92.9	86.0	95.7	99.8	98.4	97.8
65°	1284.3	705.8	191.4	121.0	101.6	87.7	80.8	89.4	94.3	95.7	96.0
67.5°	905.1	446.8	148.7	103.0	89.1	80.1	74.9	79.0	80.8	81.5	82.9
70°	495.0	242.0	118.2	86.7	76.3	72.5	68.6	69.0	68.3	67.6	68.3
72°	248.6	158.1	99.8	75.2	67.6	65.2	63.4	62.4	62.4	61.4	61.7
72.5°	213.9	147.0	96.4	72.5	65.5	63.4	62.1	61.0	60.7	60.0	60.3
75°	142.5	116.5	80.4	60.7	55.8	54.4	55.1	54.1	54.4	53.7	54.1
77.5°	115.1	100.2	68.3	51.3	47.8	45.8	47.1	47.5	48.2	47.5	47.1
80°	96.4	85.3	57.2	42.3	39.9	38.1	38.8	41.3	41.6	39.5	39.2
82.5°	62.4	68.6	45.1	32.9	30.5	29.8	31.5	34.0	34.7	31.9	31.2
85°	52.3	55.1	32.6	22.5	20.1	19.4	22.9	25.3	27.0	24.3	23.6
87.5°	14.6	27.0	15.9	10.7	9.0	9.0	11.1	13.2	15.6	15.9	15.9
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)