

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: P198572

Luminaire Tested: **XNV-AF-01-LED-U-SL4-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198572
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-SL4-7030-800
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 800mA 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: 4127 lumens
Efficiency: N/A
Efficacy: 93.8 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

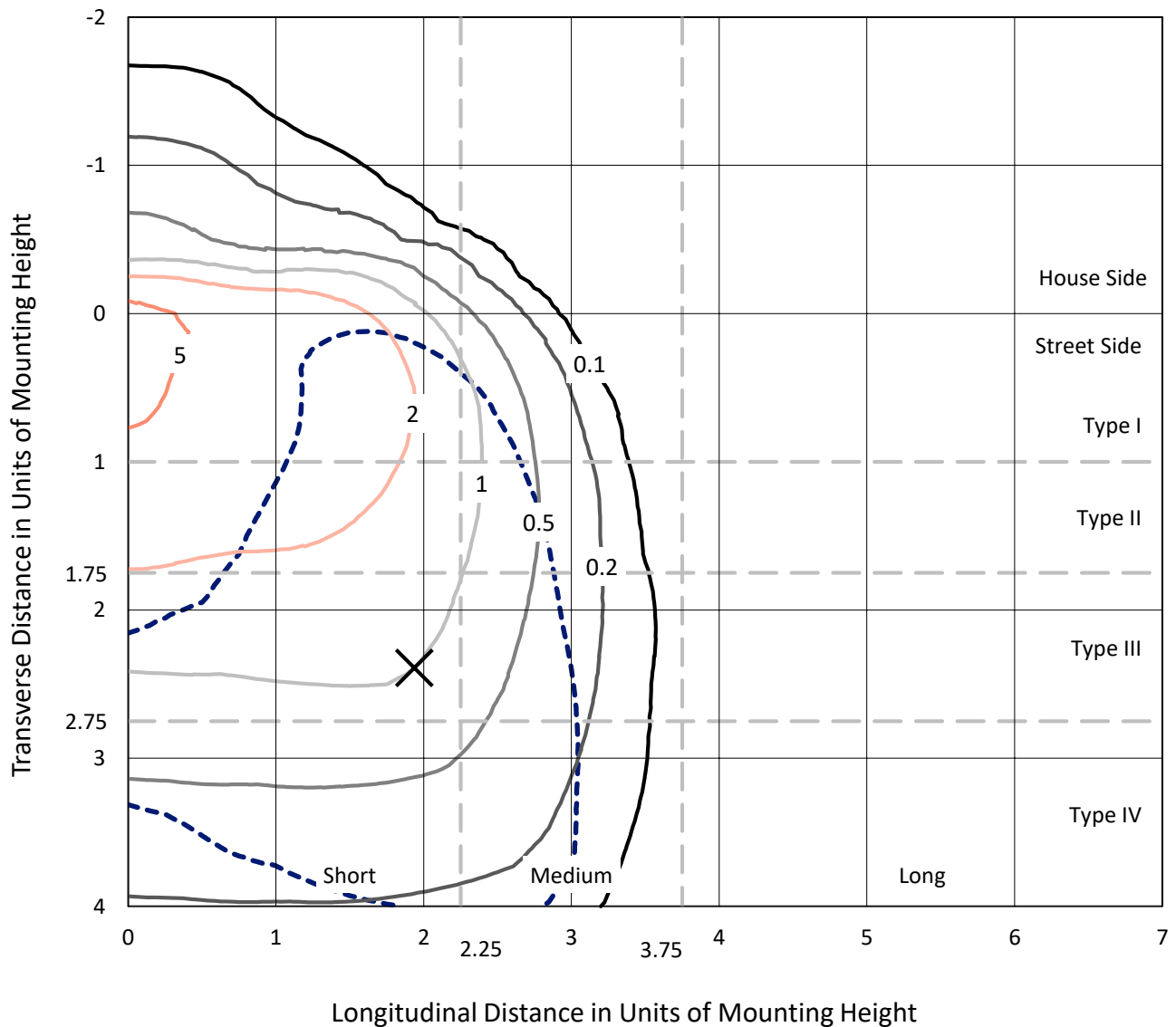
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

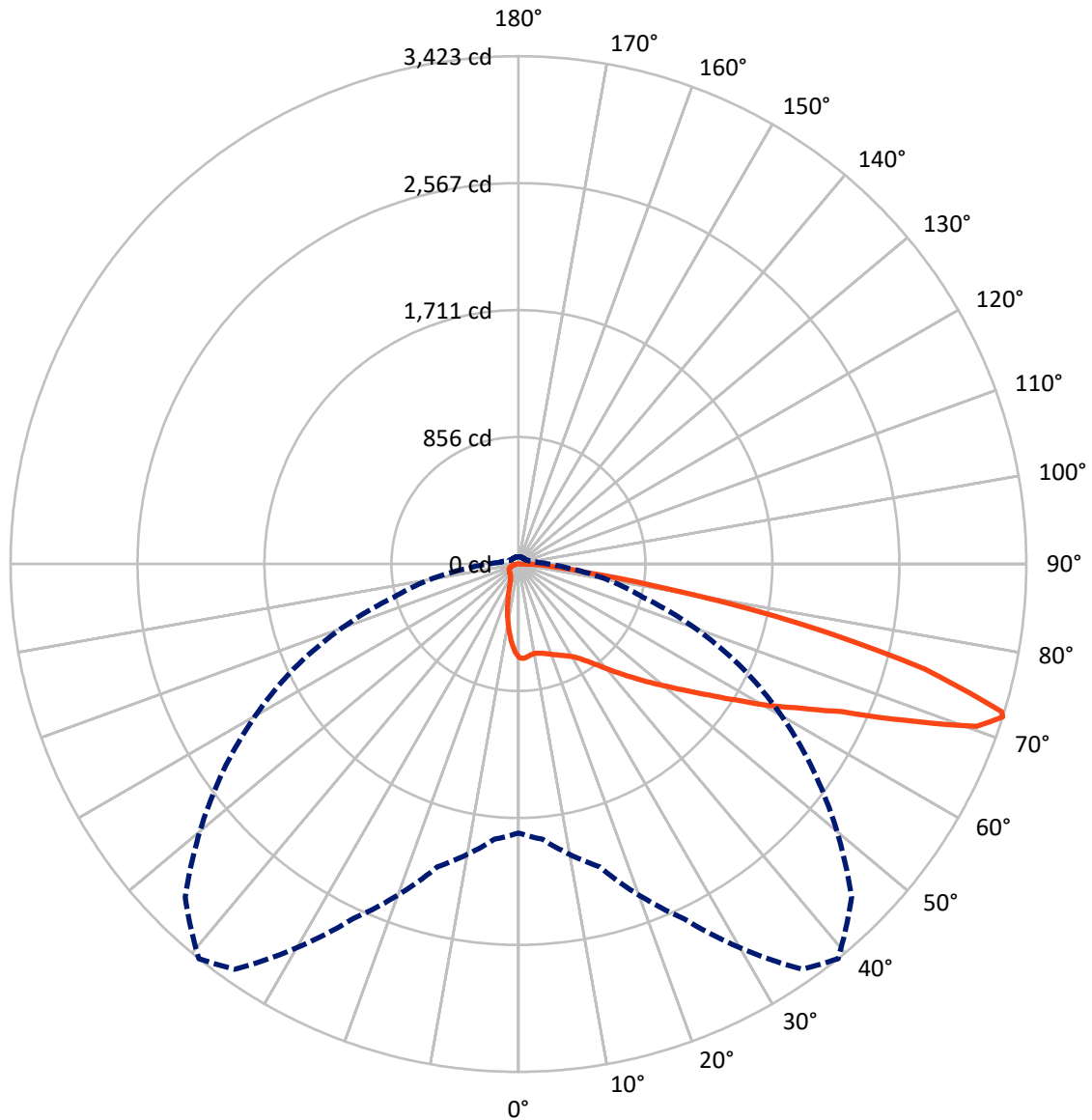
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.3 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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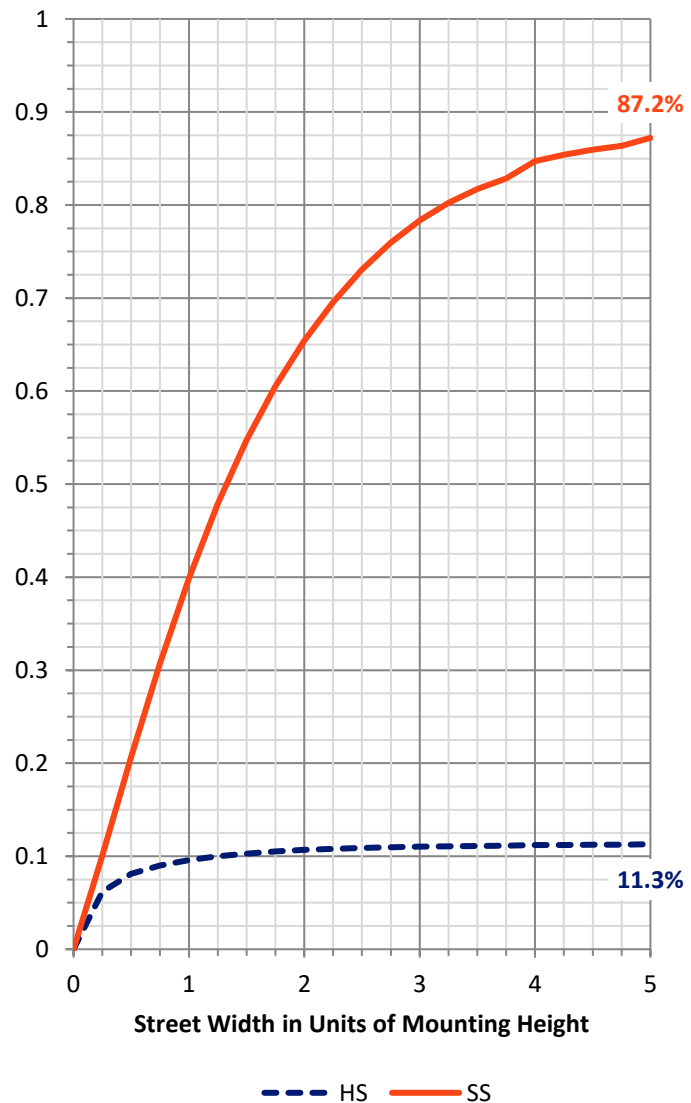
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	473.2	0.0	473.2
	% Fixture	11.5	0.0	11.5
Street Side	Lumens	3653.8	0.0	3653.8
	% Fixture	88.5	0.0	88.5
Total	Lumens	4127.0	0.0	4127.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.2	1.3
10°-20°	136.1	3.3
20°-30°	212.1	5.1
30°-40°	326.6	7.9
40°-50°	532.4	12.9
50°-60°	827.2	20.0
60°-70°	1107.2	26.8
70°-80°	796.3	19.3
80°-90°	135.0	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°	4127.0	100.0
0°-180°	4127.0	100.0



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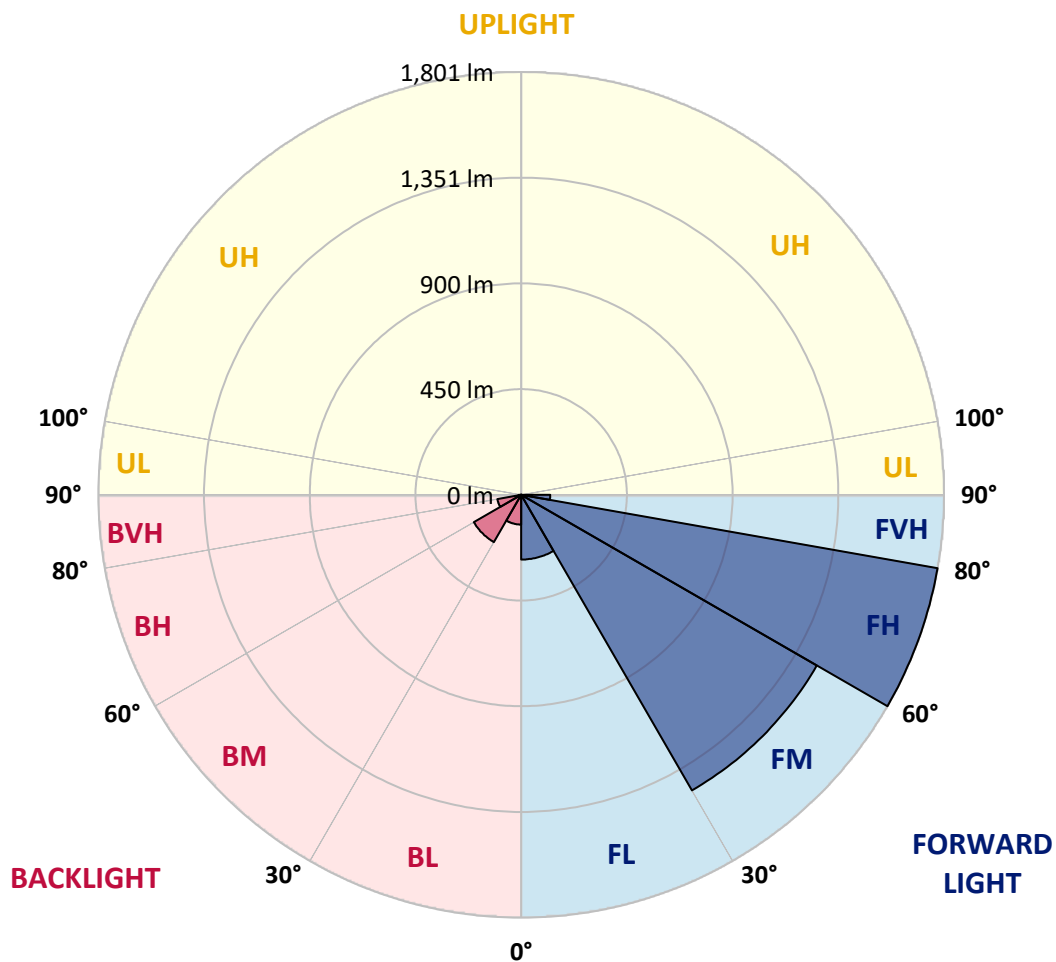
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	275.7	6.7			
FM	(30°-60°)	1453.6	35.2			
FH	(60°-80°)	1800.7	43.6			G2/5000
FVH	(80°-90°)	123.8	3.0			G2/225
BL	(0°-30°)	126.7	3.1	B1/500		
BM	(30°-60°)	232.6	5.6	B1/1000		
BH	(60°-80°)	102.8	2.5	B0/110		G0/110
BVH	(80°-90°)	11.2	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	630.3	630.3	630.3	630.3	630.3	630.3	630.3	630.3	630.3	630.3	630.3
2.5°	643.8	644.1	643.3	640.8	638.6	637.5	635.5	632.2	627.8	624.7	622.2
5°	637.7	638.6	638.0	633.9	630.0	627.8	624.7	620.0	614.2	611.7	605.9
7.5°	633.0	633.6	631.9	627.2	619.7	617.0	611.4	605.3	600.1	596.5	589.5
10°	629.7	630.3	628.9	624.2	615.9	612.5	605.9	599.2	592.3	587.9	580.1
12.5°	625.0	626.1	626.1	623.9	618.4	616.1	609.5	602.3	595.9	591.2	581.5
15°	624.2	625.6	628.1	627.8	626.1	624.4	619.2	612.0	606.4	600.9	589.0
17.5°	631.1	634.1	639.1	640.8	639.7	636.1	630.0	623.3	617.2	612.0	597.3
20°	648.6	650.2	657.7	661.0	655.5	650.2	642.2	633.6	628.1	623.9	605.1
22.5°	674.9	677.1	683.2	683.5	671.8	665.5	655.2	644.7	639.4	637.7	615.6
25°	717.0	716.4	718.1	711.2	690.1	682.6	670.2	658.0	654.4	657.7	631.1
27.5°	767.4	766.0	760.8	742.7	710.9	701.2	686.2	675.4	675.4	683.2	652.2
30°	825.6	824.2	807.0	776.8	735.5	724.5	708.7	697.3	703.1	718.1	680.7
32.5°	887.1	882.1	858.0	817.5	770.7	758.5	743.3	731.7	742.7	768.2	721.7
35°	945.0	942.2	912.6	864.6	816.2	805.9	795.4	781.0	798.7	838.3	779.6
37.5°	1004.8	1002.6	966.3	915.3	871.6	864.6	855.8	845.8	874.3	926.4	858.0
40°	1071.6	1067.2	1021.4	970.5	936.1	932.8	928.1	925.3	971.3	1048.9	957.2
42.5°	1147.2	1138.6	1079.6	1031.1	1006.5	1009.3	1006.8	1017.8	1088.2	1190.2	1075.2
45°	1233.7	1216.5	1137.5	1095.7	1084.3	1095.4	1100.7	1128.9	1226.5	1353.3	1207.1
47.5°	1314.6	1292.4	1201.0	1165.8	1172.2	1191.3	1206.2	1256.1	1378.0	1514.6	1341.7
50°	1389.1	1364.1	1268.8	1238.4	1269.4	1296.5	1327.6	1397.9	1539.2	1680.5	1465.3
52.5°	1444.2	1426.2	1336.7	1317.6	1381.0	1417.1	1466.7	1555.6	1702.1	1838.7	1575.5
55°	1486.9	1477.2	1402.9	1408.5	1507.4	1558.9	1619.0	1721.3	1874.5	1980.6	1664.2
57.5°	1536.2	1529.0	1478.6	1518.2	1664.2	1729.0	1799.9	1913.5	2038.5	2105.5	1733.7
60°	1588.3	1588.3	1562.8	1650.3	1860.3	1934.6	2005.2	2093.6	2201.9	2218.0	1762.0
62.5°	1627.6	1637.9	1647.0	1791.1	2046.5	2138.8	2216.3	2301.1	2371.2	2273.4	1695.5
65°	1684.7	1706.6	1758.1	1953.7	2277.0	2397.8	2502.5	2573.7	2508.3	2229.3	1478.6
67.5°	1782.8	1815.2	1924.9	2195.8	2629.9	2810.9	2912.5	2789.5	2481.5	1952.0	1132.5
70°	1871.1	1916.8	2104.4	2503.1	3088.7	3276.6	3229.7	2739.4	2161.2	1430.9	696.8
72°	1812.4	1862.3	2112.7	2636.9	3333.9	3422.6	3175.7	2427.7	1670.0	873.2	343.5
72.5°	1773.9	1825.7	2085.8	2633.5	3340.6	3404.0	3100.6	2303.9	1516.0	764.1	277.9
75°	1481.9	1526.2	1793.6	2334.1	2943.8	2827.5	2419.7	1491.0	696.8	246.8	143.0
77.5°	967.7	1001.5	1236.7	1617.1	2062.0	1950.1	1472.7	698.1	261.2	149.9	107.5
80°	486.2	510.3	661.8	850.2	1112.9	1023.9	679.9	337.7	174.8	108.3	84.5
82.5°	338.3	360.4	455.7	434.1	465.2	450.2	319.7	281.8	130.8	68.4	44.3
85°	283.7	306.7	377.1	309.5	253.2	230.8	229.1	266.2	86.4	33.8	37.4
87.5°	247.4	282.3	311.1	226.1	173.7	153.2	168.7	244.1	27.4	18.6	11.4
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°	630.3	630.3	630.3	630.3	630.3	630.3	630.3	630.3	630.3	630.3	630.3
2.5°	618.1	617.2	613.1	606.7	602.0	599.0	593.1	592.9	593.4	588.4	590.4
5°	600.6	597.3	586.5	571.8	559.9	548.5	536.1	531.9	528.3	520.8	521.7
7.5°	582.3	576.5	557.7	533.6	510.6	489.5	468.8	458.5	450.7	441.0	441.0
10°	571.5	562.4	533.6	498.4	461.8	431.1	400.0	381.5	367.9	355.4	354.6
12.5°	571.0	557.1	517.0	468.5	418.3	375.1	332.7	304.2	284.0	269.3	267.9
15°	575.4	556.0	503.1	440.5	377.3	321.1	268.7	232.4	206.7	190.3	188.7
17.5°	579.3	554.6	488.1	411.1	337.4	269.0	210.8	173.2	148.8	135.5	134.1
20°	582.9	551.6	469.0	380.1	293.4	220.2	164.8	134.4	118.3	110.8	110.0
22.5°	588.2	548.8	449.1	345.2	250.2	179.2	136.0	114.1	105.6	102.0	101.4
25°	596.7	549.1	429.7	309.5	210.6	149.3	117.7	104.2	99.5	97.0	97.0
27.5°	609.2	552.4	410.6	273.2	177.0	128.8	106.9	98.9	95.9	93.9	93.4
30°	627.5	558.5	390.3	238.8	150.4	114.7	100.6	95.6	93.1	91.4	91.1
32.5°	654.1	569.3	369.0	207.5	130.2	104.7	95.9	92.8	90.9	89.5	89.2
35°	693.7	588.4	348.2	180.9	115.8	97.5	92.0	89.5	88.4	87.8	87.5
37.5°	751.9	619.2	328.6	160.1	106.4	92.8	88.1	86.7	86.2	86.2	86.2
40°	825.0	659.6	310.8	145.4	101.1	89.2	85.3	84.2	84.2	84.5	84.5
42.5°	914.0	710.3	295.6	135.5	98.1	86.7	83.4	82.8	82.6	82.6	82.8
45°	1017.3	770.2	286.2	127.7	95.9	85.3	82.0	81.7	80.6	80.1	80.1
47.5°	1121.2	834.2	285.6	123.3	93.1	83.7	80.6	80.6	78.4	77.3	77.6
50°	1218.1	891.5	291.7	122.2	91.4	81.2	79.2	79.5	76.5	75.1	74.8
52.5°	1296.3	935.3	299.2	123.6	91.4	79.0	76.7	78.1	74.8	73.1	72.9
55°	1356.7	965.8	302.0	126.6	92.5	77.0	74.5	76.7	74.2	72.0	72.0
57.5°	1399.9	975.5	290.1	128.0	94.2	76.7	72.3	76.5	75.1	72.3	72.3
60°	1384.1	919.2	245.7	122.7	93.9	76.2	70.6	77.0	77.8	74.8	74.8
62.5°	1260.8	769.1	197.3	110.8	89.2	74.2	68.7	76.5	79.8	78.7	78.1
65°	1026.4	564.1	152.9	96.7	81.2	70.1	64.6	71.5	75.4	76.5	76.7
67.5°	723.4	357.1	118.9	82.3	71.2	64.0	59.8	63.2	64.6	65.1	66.2
70°	395.6	193.4	94.5	69.3	60.9	57.9	54.9	55.1	54.6	54.0	54.6
72°	198.6	126.3	79.8	60.1	54.0	52.1	50.7	49.9	49.9	49.0	49.3
72.5°	170.9	117.5	77.0	57.9	52.4	50.7	49.6	48.8	48.5	47.9	48.2
75°	113.9	93.1	64.3	48.5	44.6	43.5	44.0	43.2	43.5	42.9	43.2
77.5°	92.0	80.1	54.6	41.0	38.2	36.6	37.7	38.0	38.5	38.0	37.7
80°	77.0	68.2	45.7	33.8	31.9	30.5	31.0	33.0	33.2	31.6	31.3
82.5°	49.9	54.9	36.0	26.3	24.4	23.8	25.2	27.1	27.7	25.5	24.9
85°	41.8	44.0	26.0	18.0	16.1	15.5	18.3	20.2	21.6	19.4	18.8
87.5°	11.6	21.6	12.7	8.6	7.2	7.2	8.9	10.5	12.5	12.7	12.7
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)