

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: P199214

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199214
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
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 3000K, 1050mA 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: 4708 lumens
Efficiency: N/A
Efficacy: 81.2 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

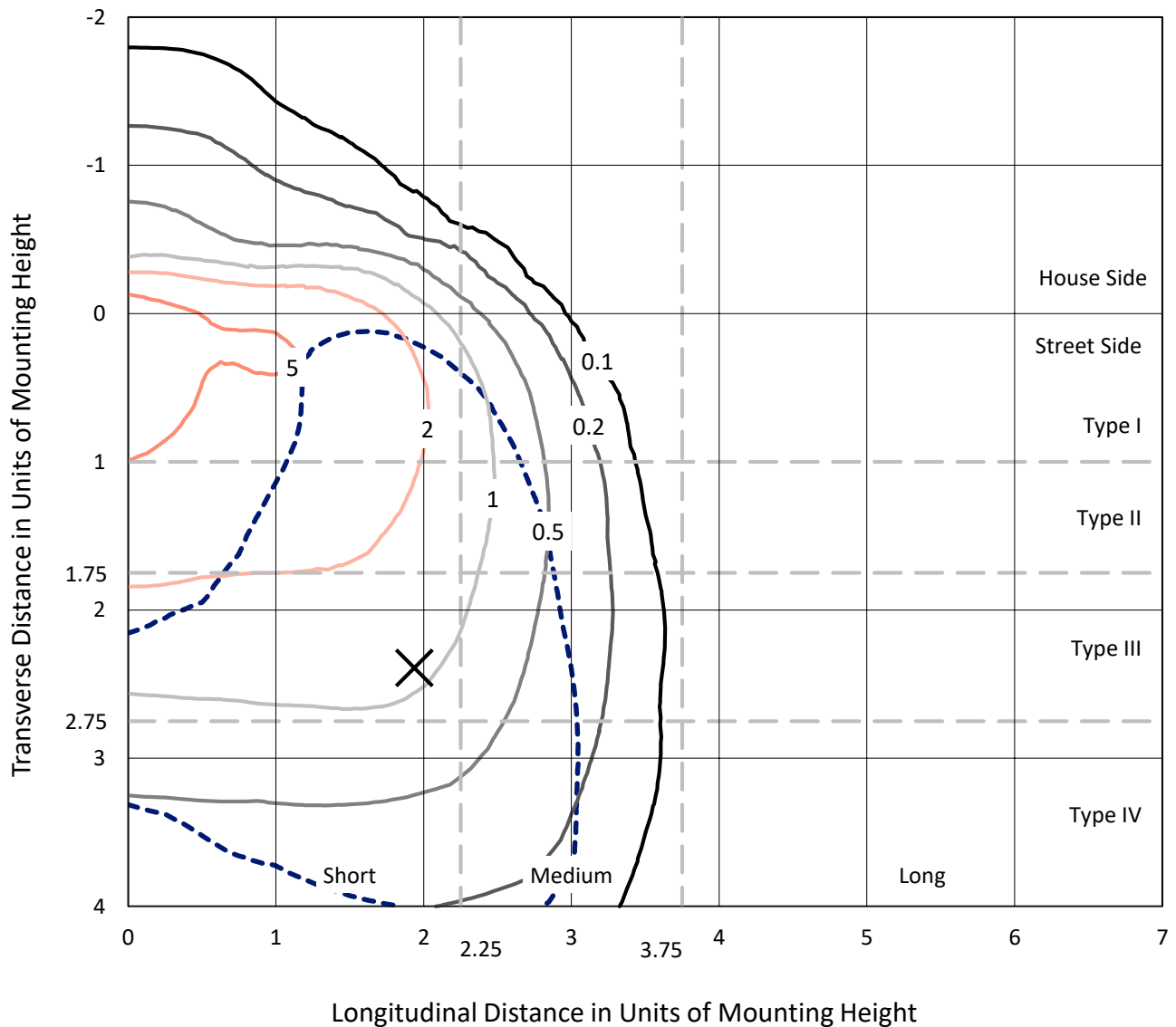
Input Watts (W): 58
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

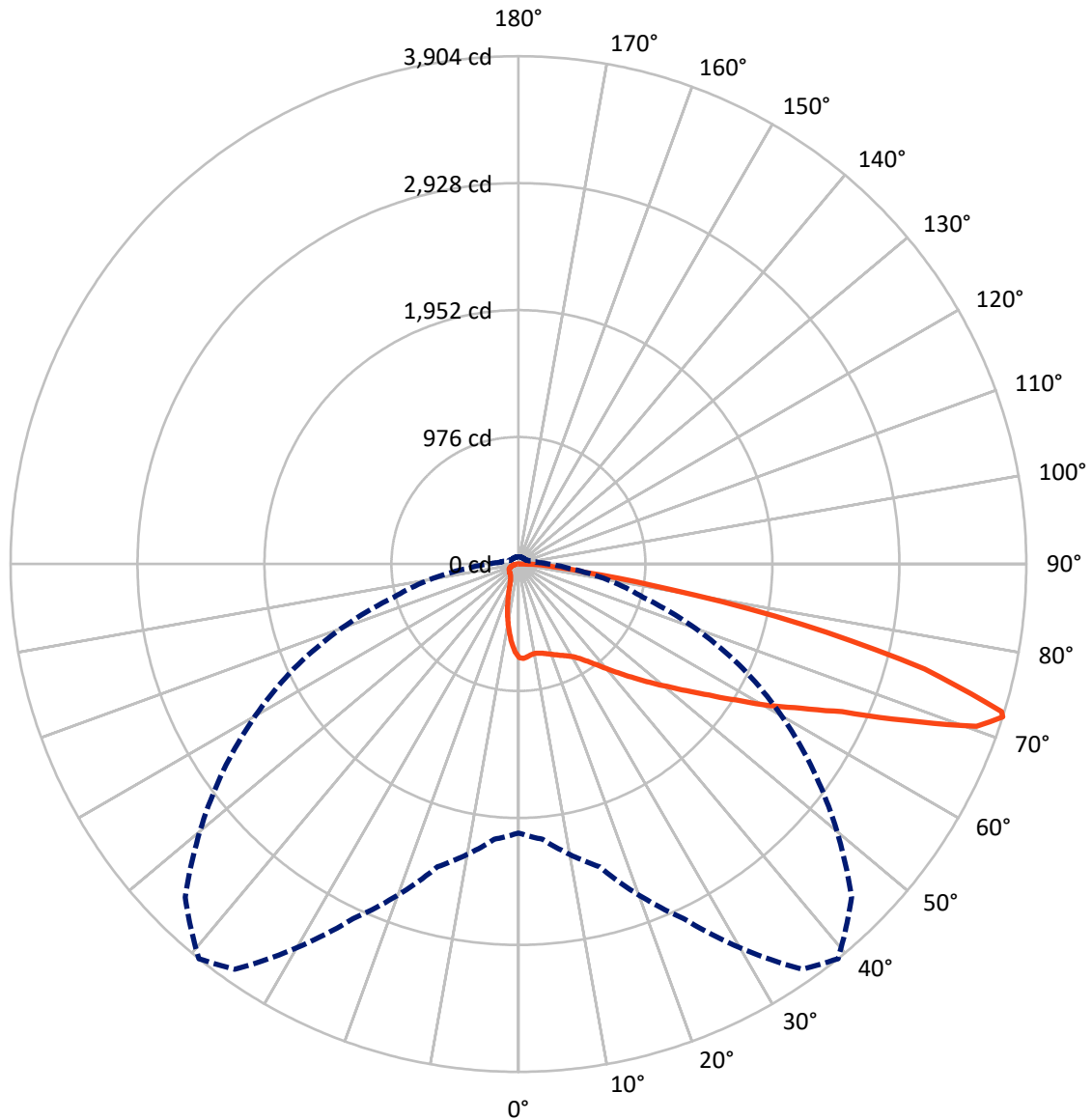
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.2 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	539.8	0.0	539.8
	% Fixture	11.5	0.0	11.5
Street Side	Lumens	4168.2	0.0	4168.2
	% Fixture	88.5	0.0	88.5
Total	Lumens	4708.0	0.0	4708.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.8	1.3
10°-20°	155.3	3.3
20°-30°	242.0	5.1
30°-40°	372.5	7.9
40°-50°	607.3	12.9
50°-60°	943.7	20.0
60°-70°	1263.1	26.8
70°-80°	908.4	19.3
80°-90°	154.0	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°	4708.0	100.0
0°-180°	4708.0	100.0



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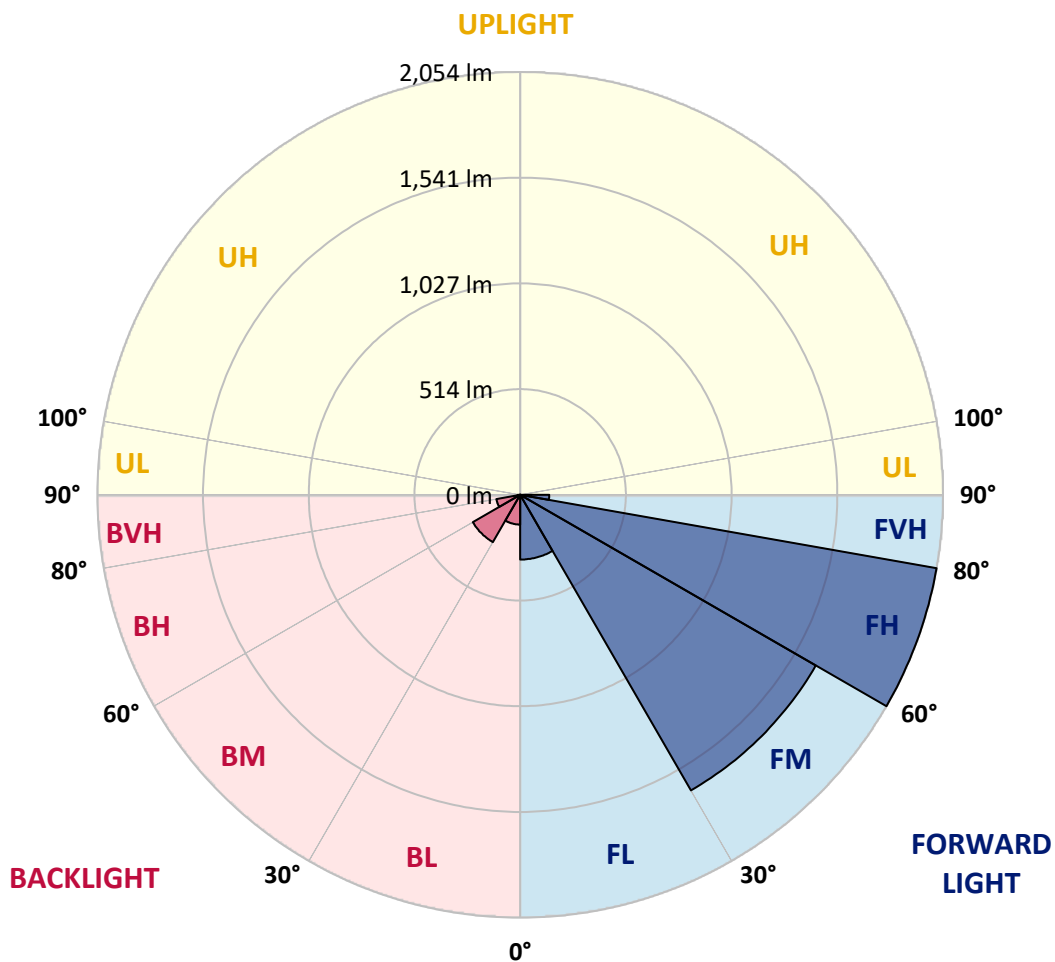
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	314.5	6.7			
FM	(30°-60°)	1658.2	35.2			
FH	(60°-80°)	2054.2	43.6			G2/5000
FVH	(80°-90°)	141.3	3.0			G2/225
BL	(0°-30°)	144.5	3.1	B1/500		
BM	(30°-60°)	265.3	5.6	B1/1000		
BH	(60°-80°)	117.3	2.5	B1/500		G1/500
BVH	(80°-90°)	12.7	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°	719.0	719.0	719.0	719.0	719.0	719.0	719.0	719.0	719.0	719.0	719.0
2.5°	734.5	734.8	733.9	731.0	728.5	727.2	725.0	721.2	716.2	712.7	709.8
5°	727.5	728.5	727.8	723.1	718.7	716.2	712.7	707.3	700.7	697.8	691.2
7.5°	722.2	722.8	720.9	715.5	707.0	703.8	697.5	690.6	684.5	680.4	672.5
10°	718.4	719.0	717.4	712.0	702.6	698.8	691.2	683.6	675.7	670.6	661.8
12.5°	713.0	714.3	714.3	711.7	705.4	702.9	695.3	687.1	679.8	674.4	663.4
15°	712.0	713.6	716.5	716.2	714.3	712.4	706.4	698.1	691.8	685.5	671.9
17.5°	719.9	723.4	729.1	731.0	729.7	725.6	718.7	711.1	704.1	698.1	681.4
20°	739.9	741.8	750.3	754.1	747.8	741.8	732.6	722.8	716.5	711.7	690.2
22.5°	769.9	772.4	779.4	779.7	766.4	759.1	747.4	735.4	729.4	727.5	702.2
25°	817.9	817.3	819.2	811.3	787.3	778.7	764.5	750.6	746.5	750.3	719.9
27.5°	875.4	873.9	867.9	847.3	811.0	799.9	782.8	770.5	770.5	779.4	744.0
30°	941.8	940.2	920.6	886.2	839.1	826.5	808.4	795.5	802.1	819.2	776.5
32.5°	1012.0	1006.3	978.8	932.6	879.2	865.3	847.9	834.7	847.3	876.4	823.3
35°	1078.0	1074.9	1041.0	986.4	931.1	919.4	907.4	890.9	911.1	956.3	889.3
37.5°	1146.3	1143.8	1102.4	1044.2	994.3	986.4	976.3	964.9	997.4	1056.8	978.8
40°	1222.5	1217.4	1165.2	1107.1	1067.9	1064.1	1058.7	1055.6	1108.0	1196.5	1091.9
42.5°	1308.7	1298.9	1231.6	1176.3	1148.2	1151.3	1148.5	1161.1	1241.4	1357.7	1226.6
45°	1407.3	1387.7	1297.7	1249.9	1237.0	1249.6	1255.6	1287.9	1399.1	1543.9	1377.0
47.5°	1499.6	1474.3	1370.0	1329.9	1337.2	1359.0	1376.0	1432.9	1572.0	1727.8	1530.6
50°	1584.6	1556.2	1447.5	1412.7	1448.1	1479.1	1514.5	1594.7	1755.9	1917.1	1671.5
52.5°	1647.5	1627.0	1524.9	1503.1	1575.5	1616.6	1673.1	1774.6	1941.8	2097.6	1797.3
55°	1696.2	1685.1	1600.4	1606.8	1719.6	1778.4	1847.0	1963.6	2138.3	2259.4	1898.5
57.5°	1752.5	1744.2	1686.7	1731.9	1898.5	1972.4	2053.3	2182.9	2325.4	2401.9	1977.8
60°	1811.9	1811.9	1782.8	1882.7	2122.2	2206.9	2287.5	2388.3	2511.9	2530.2	2010.0
62.5°	1856.7	1868.4	1878.9	2043.2	2334.6	2439.8	2528.3	2625.0	2705.0	2593.4	1934.2
65°	1921.9	1946.8	2005.6	2228.7	2597.6	2735.3	2854.8	2936.0	2861.4	2543.2	1686.7
67.5°	2033.7	2070.7	2195.9	2505.0	3000.2	3206.6	3322.6	3182.2	2830.8	2226.8	1292.0
70°	2134.5	2186.7	2400.7	2855.4	3523.6	3737.8	3684.4	3125.0	2465.4	1632.4	794.8
72°	2067.5	2124.4	2410.1	3008.1	3803.3	3904.4	3622.8	2769.5	1905.1	996.2	391.9
72.5°	2023.6	2082.7	2379.5	3004.3	3810.8	3883.2	3537.1	2628.2	1729.4	871.6	317.0
75°	1690.5	1741.1	2046.1	2662.7	3358.3	3225.5	2760.3	1700.9	794.8	281.6	163.1
77.5°	1103.9	1142.5	1410.8	1844.7	2352.3	2224.6	1680.1	796.4	298.0	171.0	122.6
80°	554.7	582.1	755.0	969.9	1269.5	1168.1	775.6	385.3	199.4	123.6	96.4
82.5°	385.9	411.2	519.9	495.2	530.6	513.6	364.7	321.4	149.2	78.1	50.6
85°	323.6	349.9	430.1	353.0	288.9	263.3	261.4	303.7	98.6	38.6	42.7
87.5°	282.2	322.0	354.9	257.9	198.2	174.8	192.5	278.4	31.3	21.2	13.0
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°	719.0	719.0	719.0	719.0	719.0	719.0	719.0	719.0	719.0	719.0	719.0
2.5°	705.1	704.1	699.4	692.1	686.8	683.3	676.6	676.3	677.0	671.3	673.5
5°	685.2	681.4	669.1	652.3	638.7	625.8	611.5	606.8	602.7	594.2	595.1
7.5°	664.3	657.7	636.2	608.7	582.5	558.4	534.7	523.0	514.2	503.1	503.1
10°	652.0	641.6	608.7	568.6	526.8	491.8	456.4	435.2	419.7	405.5	404.5
12.5°	651.4	635.6	589.7	534.4	477.2	427.9	379.6	347.0	323.9	307.2	305.6
15°	656.4	634.3	573.9	502.5	430.4	366.3	306.6	265.2	235.8	217.1	215.2
17.5°	660.8	632.7	556.9	469.0	384.9	306.9	240.5	197.5	169.7	154.5	153.0
20°	665.0	629.2	535.1	433.6	334.7	251.3	188.0	153.3	135.0	126.4	125.5
22.5°	671.0	626.1	512.3	393.8	285.4	204.5	155.2	130.2	120.4	116.3	115.7
25°	680.8	626.4	490.2	353.0	240.2	170.3	134.3	118.8	113.5	110.6	110.6
27.5°	695.0	630.2	468.4	311.6	202.0	147.0	122.0	112.8	109.4	107.1	106.5
30°	715.8	637.1	445.3	272.4	171.6	130.8	114.7	109.0	106.2	104.3	104.0
32.5°	746.2	649.5	421.0	236.7	148.5	119.5	109.4	105.9	103.7	102.1	101.8
35°	791.4	671.3	397.3	206.4	132.1	111.2	104.9	102.1	100.8	100.2	99.9
37.5°	857.7	706.4	374.8	182.7	121.4	105.9	100.5	98.9	98.3	98.3	98.3
40°	941.2	752.5	354.6	165.9	115.4	101.8	97.3	96.1	96.1	96.4	96.4
42.5°	1042.6	810.3	337.2	154.5	111.9	98.9	95.1	94.5	94.2	94.2	94.5
45°	1160.5	878.6	326.5	145.7	109.4	97.3	93.5	93.2	92.0	91.3	91.3
47.5°	1279.0	951.6	325.8	140.6	106.2	95.4	92.0	92.0	89.4	88.2	88.5
50°	1389.6	1017.0	332.8	139.4	104.3	92.6	90.4	90.7	87.2	85.6	85.3
52.5°	1478.8	1067.0	341.3	141.0	104.3	90.1	87.5	89.1	85.3	83.4	83.1
55°	1547.7	1101.7	344.5	144.4	105.6	87.9	85.0	87.5	84.7	82.2	82.2
57.5°	1597.0	1112.8	330.9	146.0	107.5	87.5	82.5	87.2	85.6	82.5	82.5
60°	1578.9	1048.6	280.3	140.0	107.1	86.9	80.6	87.9	88.8	85.3	85.3
62.5°	1438.3	877.3	225.0	126.4	101.8	84.7	78.4	87.2	91.0	89.8	89.1
65°	1170.9	643.5	174.5	110.3	92.6	80.0	73.6	81.5	86.0	87.2	87.5
67.5°	825.2	407.4	135.6	93.9	81.2	73.0	68.3	72.1	73.6	74.3	75.5
70°	451.3	220.6	107.8	79.0	69.5	66.1	62.6	62.9	62.3	61.6	62.3
72°	226.6	144.1	91.0	68.6	61.6	59.4	57.8	56.9	56.9	55.9	56.3
72.5°	195.0	134.0	87.9	66.1	59.7	57.8	56.6	55.6	55.3	54.7	55.0
75°	129.9	106.2	73.3	55.3	50.9	49.6	50.3	49.3	49.6	49.0	49.3
77.5°	104.9	91.3	62.3	46.8	43.6	41.7	43.0	43.3	43.9	43.3	43.0
80°	87.9	77.7	52.1	38.6	36.3	34.8	35.4	37.6	37.9	36.0	35.7
82.5°	56.9	62.6	41.1	30.0	27.8	27.2	28.8	31.0	31.6	29.1	28.4
85°	47.7	50.3	29.7	20.5	18.3	17.7	20.9	23.1	24.7	22.1	21.5
87.5°	13.3	24.7	14.5	9.8	8.2	8.2	10.1	12.0	14.2	14.5	14.5
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)