

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: P271229

Luminaire Tested: **XNV-AF-01-LED-U-SL2-7027-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271229
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24258)
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-SL2-7027-800-HSS
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3462.7 lumens
Efficiency: N/A
Efficacy: 78.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium - Semi-Cutoff
BUG Rating: B1 - U0 - G1

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

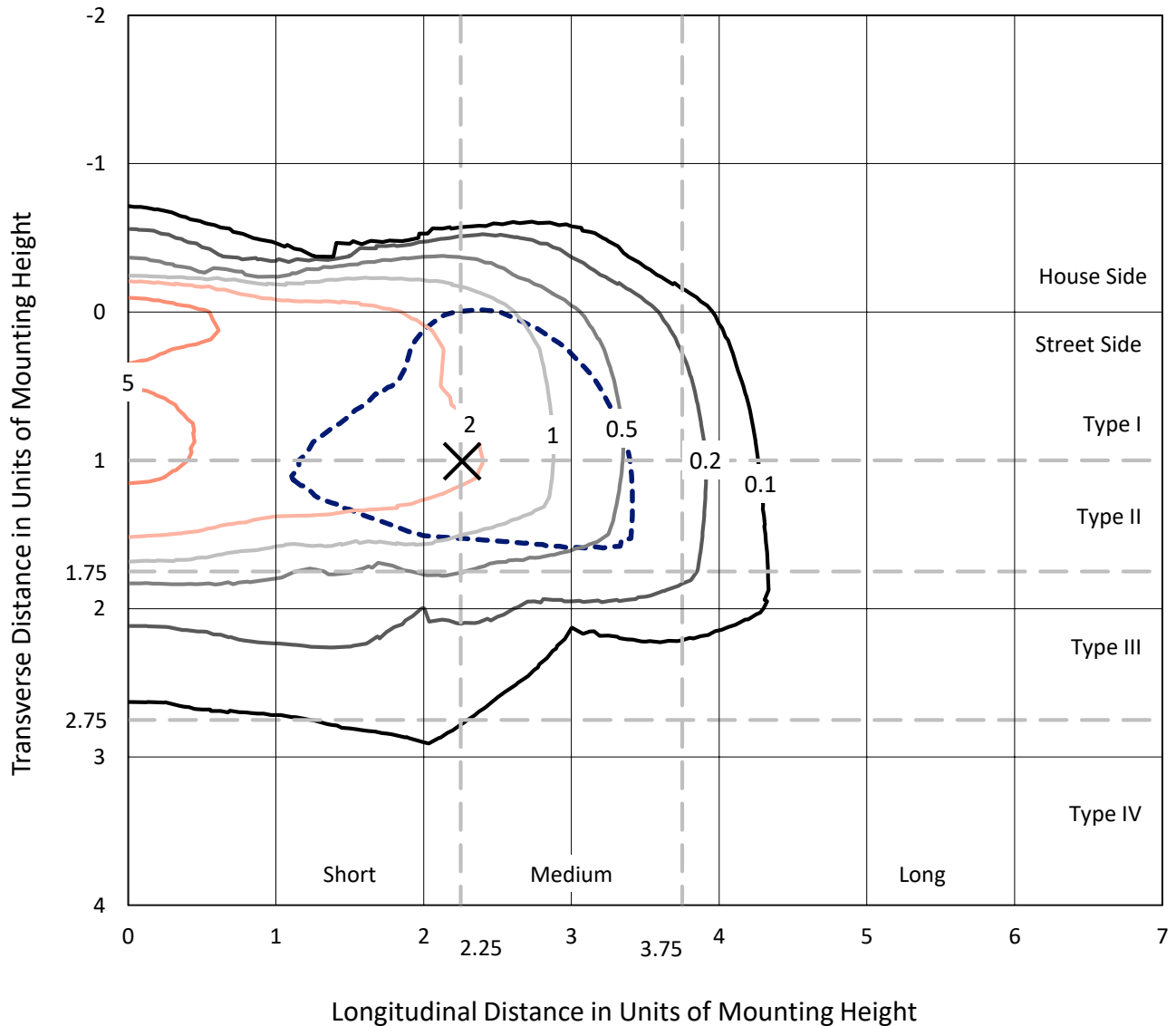


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

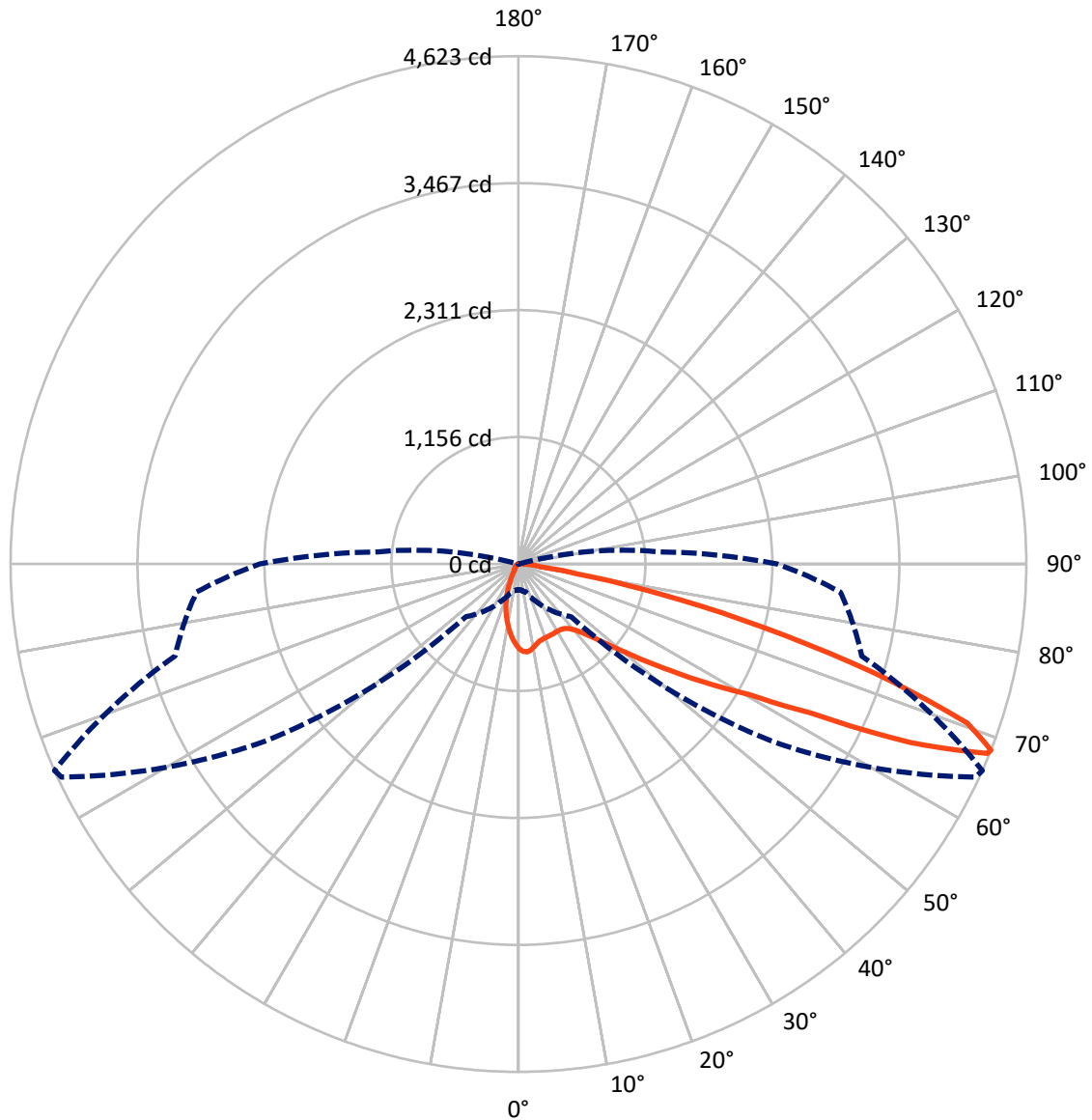


Based on 10 foot mounting height. Maximum calculated value = 7.7 fc
 Type II - Medium - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	350.7	0.0	350.7
	% Fixture	10.1	0.0	10.1
Street Side	Lumens	3111.9	0.0	3111.9
	% Fixture	89.9	0.0	89.9
Total	Lumens	3462.7	0.0	3462.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.2	1.8
10°-20°	136.1	3.9
20°-30°	197.2	5.7
30°-40°	301.9	8.7
40°-50°	516.3	14.9
50°-60°	807.6	23.3
60°-70°	930.0	26.9
70°-80°	465.4	13.4
80°-90°	45.1	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°	3462.7	100.0
0°-180°	3462.7	100.0

Coefficient of Utilization



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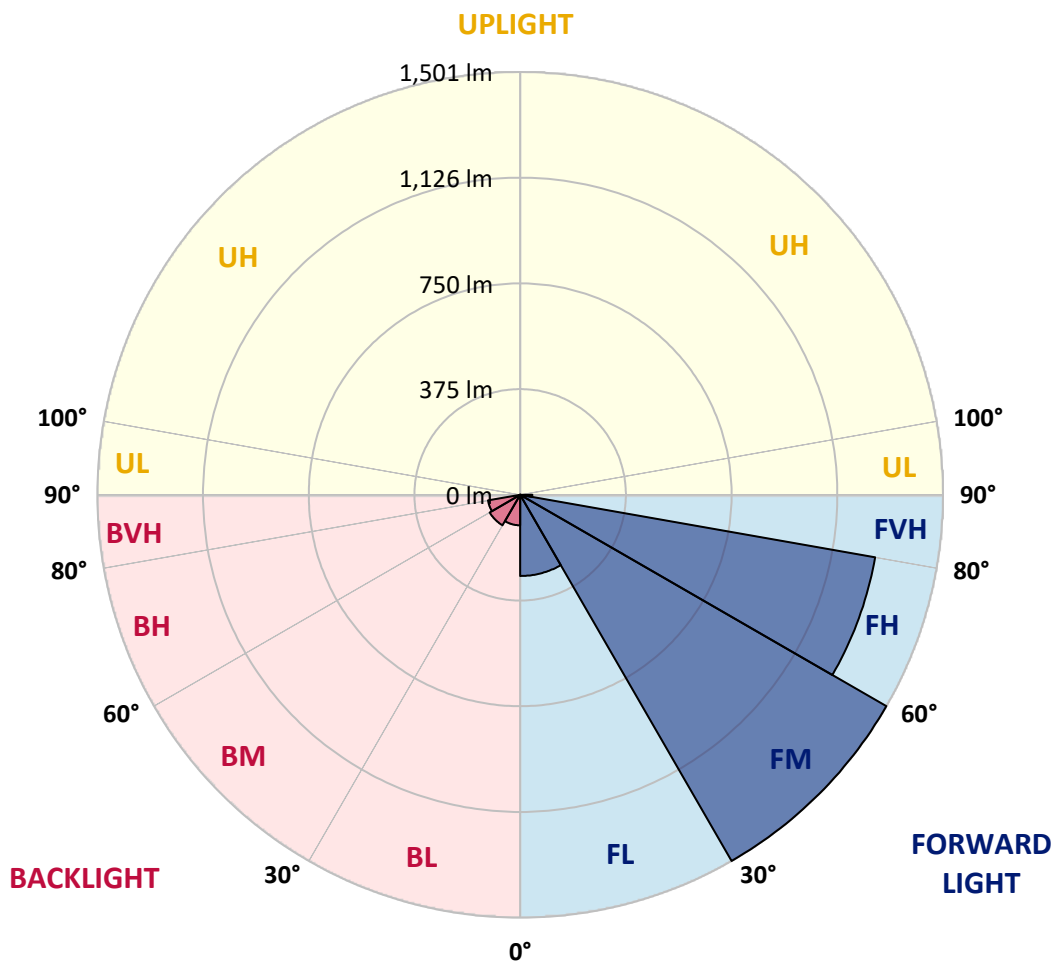
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	288.2	8.3			
FM	(30°-60°)	1500.9	43.3			
FH	(60°-80°)	1279.5	36.9			G1/1800
FVH	(80°-90°)	43.4	1.3			G1/100
BL	(0°-30°)	108.3	3.1	B0/110		
BM	(30°-60°)	124.9	3.6	B0/220		
BH	(60°-80°)	115.9	3.3	B1/500		G1/500
BVH	(80°-90°)	1.7	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	771.5	771.5	771.5	771.5	771.5	771.5	771.5	771.5	771.5	771.5	771.5
2.5°	811.3	812.0	811.7	812.4	812.0	807.8	803.5	794.3	795.1	783.1	769.8
5°	754.3	759.0	763.6	768.2	779.3	789.2	800.7	803.5	803.5	793.3	773.6
7.5°	696.1	696.5	701.5	707.9	722.7	740.7	768.0	792.3	792.9	795.7	774.2
10°	652.3	653.7	657.3	664.0	678.9	696.6	727.2	765.4	768.5	788.6	768.7
12.5°	618.5	620.0	623.9	631.7	645.3	663.6	695.6	739.3	743.4	781.7	767.2
15°	592.3	594.5	597.6	605.4	620.0	639.4	674.4	722.0	726.9	779.1	772.3
17.5°	581.5	581.5	581.2	586.7	601.2	620.9	657.6	712.7	719.1	781.3	780.9
20°	586.1	585.2	579.5	578.1	587.1	606.7	644.3	706.7	713.9	785.3	791.5
22.5°	610.5	609.0	596.1	585.5	582.8	595.8	635.2	702.7	711.1	793.7	805.7
25°	662.4	657.6	640.0	616.0	594.5	593.2	629.1	700.5	709.5	803.5	821.2
27.5°	729.9	728.4	700.1	668.2	626.8	602.1	627.0	698.9	707.9	810.6	833.6
30°	813.5	814.1	781.5	739.7	677.1	627.3	633.0	698.1	707.2	811.1	839.1
32.5°	900.0	900.6	873.4	828.5	746.0	670.9	650.0	701.8	710.3	809.0	838.8
35°	983.3	984.1	967.7	931.5	837.8	731.2	681.8	715.0	720.9	810.4	838.3
37.5°	1088.3	1091.7	1071.6	1037.8	953.0	819.9	733.6	741.3	746.1	821.5	842.4
40°	1267.8	1263.5	1205.9	1148.8	1078.1	927.8	808.7	786.6	788.4	850.2	857.9
42.5°	1476.9	1471.5	1372.7	1274.3	1206.7	1057.9	904.7	856.3	855.9	898.7	891.6
45°	1656.8	1653.5	1549.7	1418.5	1349.1	1201.8	1022.9	956.5	953.3	982.3	953.0
47.5°	1784.6	1781.9	1703.2	1571.8	1513.9	1359.9	1170.5	1093.2	1086.5	1091.9	1052.9
50°	1797.1	1794.1	1766.5	1682.0	1706.3	1592.1	1352.8	1272.4	1263.7	1255.3	1203.6
52.5°	1680.2	1679.9	1694.4	1688.9	1841.0	1890.8	1576.6	1494.1	1483.6	1462.3	1410.8
55°	1441.2	1439.9	1494.5	1573.9	1838.1	2199.1	1917.7	1757.7	1744.1	1701.1	1633.7
57.5°	1053.1	1045.9	1160.3	1328.5	1708.9	2333.9	2459.5	2085.1	2062.7	1926.4	1822.7
60°	581.5	584.2	731.0	930.1	1403.2	2307.2	2958.1	2467.1	2407.8	2120.8	2016.2
62.5°	325.9	332.7	442.0	604.6	894.6	2091.2	3225.5	3124.3	2981.7	2347.5	2260.9
65°	246.6	250.6	305.6	466.5	564.0	1461.4	3268.3	4043.5	3920.4	2691.1	2650.3
67.5°	232.1	235.4	262.3	386.8	513.7	757.9	2946.9	4587.1	4602.6	3159.8	2952.1
68°	233.7	237.8	264.8	372.2	512.9	678.0	2809.9	4589.8	4622.7	3235.2	2941.7
70°	214.8	215.9	280.0	365.2	497.2	534.1	2032.8	4275.4	4334.3	3325.3	2670.4
72.5°	82.0	82.4	125.7	316.2	520.8	537.1	1024.0	3379.2	3382.1	2893.9	2081.9
75°	42.7	35.9	39.4	99.0	497.4	523.5	513.7	2307.2	2292.8	1957.1	1275.8
77.5°	29.4	25.1	26.4	34.2	206.9	523.3	371.0	1326.7	1323.8	832.5	364.0
80°	16.6	14.5	15.8	28.8	72.6	491.3	345.8	570.3	537.4	146.2	59.0
82.5°	8.4	7.0	8.4	24.2	45.2	309.0	336.2	223.7	199.2	34.9	38.4
85°	2.2	2.2	4.1	16.9	27.9	101.4	301.4	161.4	145.2	15.2	27.2
87.5°	0.5	0.3	1.6	6.3	10.1	22.0	167.2	90.0	77.4	7.8	15.8
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°	771.5	771.5	771.5	771.5	771.5	771.5	771.5	771.5	771.5	771.5	771.5
2.5°	764.4	756.7	741.8	724.9	713.1	700.0	692.4	683.2	676.1	669.7	674.4
5°	761.7	747.0	713.9	676.6	645.3	615.3	593.2	572.0	556.0	545.8	549.9
7.5°	754.5	732.8	678.9	620.9	569.7	521.6	482.5	447.4	420.2	405.6	410.2
10°	742.5	711.9	639.7	558.8	487.4	419.4	361.3	309.0	269.6	251.2	255.5
12.5°	733.9	693.4	598.8	499.1	405.0	308.5	231.4	171.5	140.9	122.3	124.0
15°	730.1	678.9	560.8	435.9	315.0	198.2	125.0	90.5	79.9	76.0	76.4
17.5°	730.7	667.6	524.6	370.6	224.2	113.8	76.6	69.0	67.5	66.7	66.7
20°	731.9	656.2	487.2	302.3	143.5	73.4	63.9	61.4	60.6	59.6	59.7
22.5°	736.2	647.5	449.3	233.7	88.4	59.7	56.6	54.3	53.0	51.4	51.7
25°	742.4	641.0	412.1	168.3	62.3	52.2	49.1	46.3	43.7	42.0	42.1
27.5°	746.1	631.7	372.3	114.8	51.7	45.6	41.6	37.5	34.9	33.1	32.9
30°	743.4	616.7	327.3	75.3	45.6	39.4	34.6	30.0	27.2	25.8	25.8
32.5°	736.2	597.6	277.5	54.8	40.6	34.0	27.9	24.0	22.0	21.2	21.5
35°	727.6	577.4	224.5	46.5	36.4	28.8	22.8	19.6	18.8	18.4	18.4
37.5°	723.0	560.0	173.7	42.1	32.6	24.0	18.8	16.9	16.0	16.0	16.0
40°	728.3	546.7	128.5	38.8	28.8	19.9	15.8	14.5	14.2	14.2	14.2
42.5°	750.3	542.0	94.1	36.1	25.1	16.6	13.6	12.4	12.2	12.4	12.4
45°	793.3	552.1	71.2	33.4	21.5	13.6	11.7	10.9	10.9	11.1	11.1
47.5°	866.1	577.9	58.4	30.7	18.0	11.4	10.1	9.5	9.5	9.8	9.8
50°	979.2	625.8	52.6	27.7	14.9	9.8	8.4	8.2	8.2	8.4	8.8
52.5°	1150.9	716.8	49.4	24.8	12.2	8.2	7.0	6.7	7.0	7.4	7.4
55°	1342.0	833.4	46.0	21.7	10.3	6.7	5.7	5.7	6.0	6.5	6.5
57.5°	1520.0	945.9	42.7	18.0	9.0	5.4	4.6	4.6	5.2	5.7	5.7
60°	1708.1	1056.3	38.4	14.5	7.6	4.3	3.9	3.9	4.6	5.2	5.4
62.5°	1940.6	1184.7	32.6	11.4	6.0	3.2	2.8	3.6	4.3	5.2	5.2
65°	2276.6	1344.3	25.5	9.0	4.6	2.4	2.2	3.2	4.1	4.9	5.2
67.5°	2398.7	1323.8	19.4	7.4	3.6	1.8	1.8	3.0	4.1	4.9	4.9
68°	2354.1	1279.2	18.4	7.0	3.2	1.8	1.8	3.0	4.1	4.9	4.9
70°	2051.2	1045.7	15.2	5.4	2.8	1.6	1.6	2.8	4.1	4.6	4.9
72.5°	1535.8	694.7	13.0	3.6	2.4	1.6	1.3	2.8	3.9	4.6	4.6
75°	881.0	288.4	11.1	2.8	2.2	1.3	1.3	2.4	3.9	4.6	4.6
77.5°	249.0	67.5	9.0	2.2	1.8	1.3	1.1	2.4	3.6	4.3	4.3
80°	45.6	20.1	7.0	1.8	1.6	1.3	1.1	2.4	3.6	4.3	4.3
82.5°	30.2	9.5	5.2	1.8	1.6	1.3	1.1	2.2	3.2	4.1	4.1
85°	22.5	6.7	3.2	1.8	1.6	1.3	1.1	2.2	3.2	4.1	4.1
87.5°	12.4	3.0	2.4	2.2	1.8	1.3	1.1	1.8	3.0	3.9	3.9
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)