

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: McGRAW-EDISON

Report Number: P299696

Luminaire Tested: **GLNA-AF-01-LED-E1-SL2-7030-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299696
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-01-LED-E1-SL2-7030-600-HSS
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type II
w/Spill Control WITH HOUSESIDE SHEILD OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2988 lumens
Efficiency: N/A
Efficacy: 87.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B0 - U0 - G1

Input Watts (W): 34
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: 25 FT

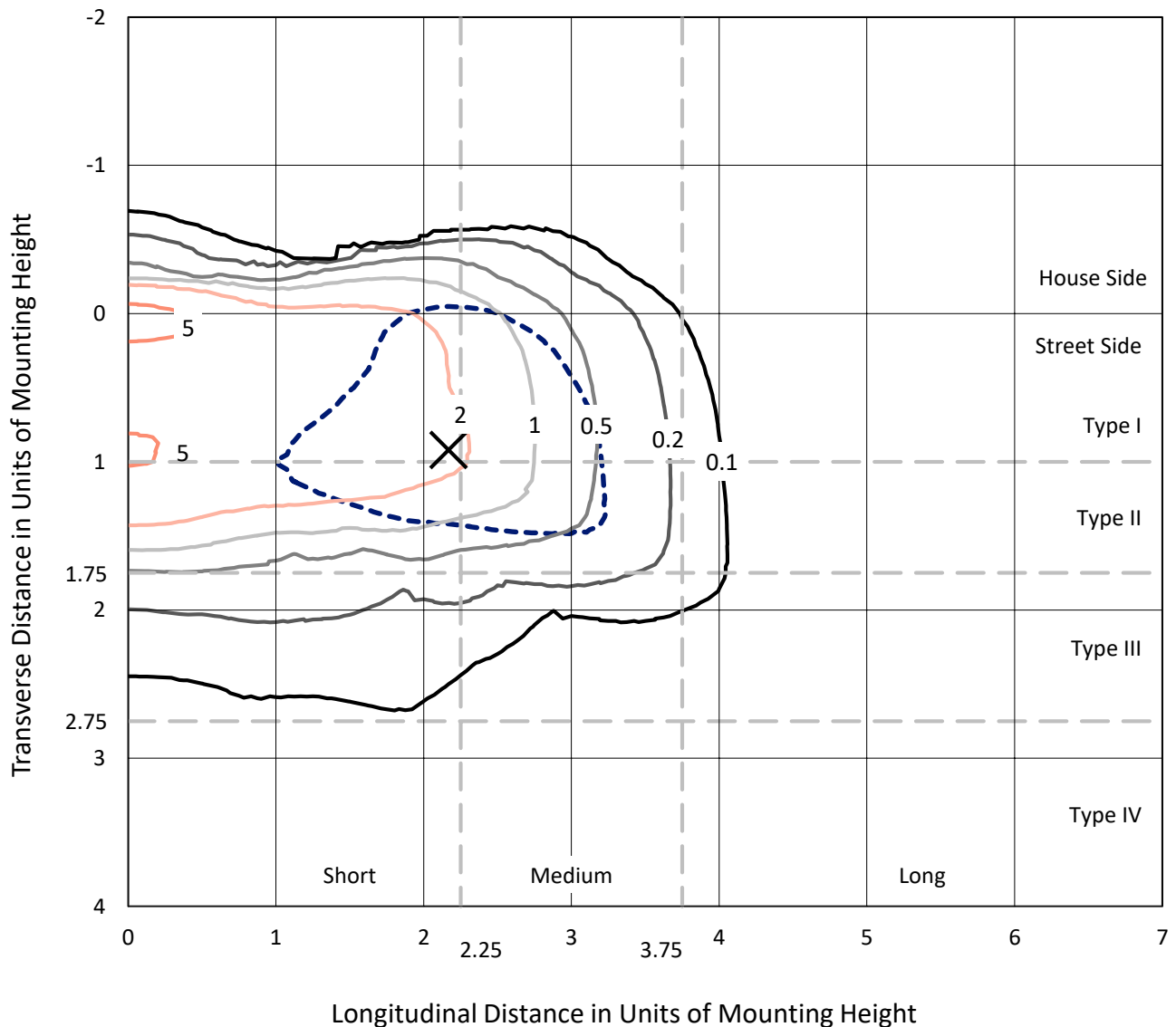


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

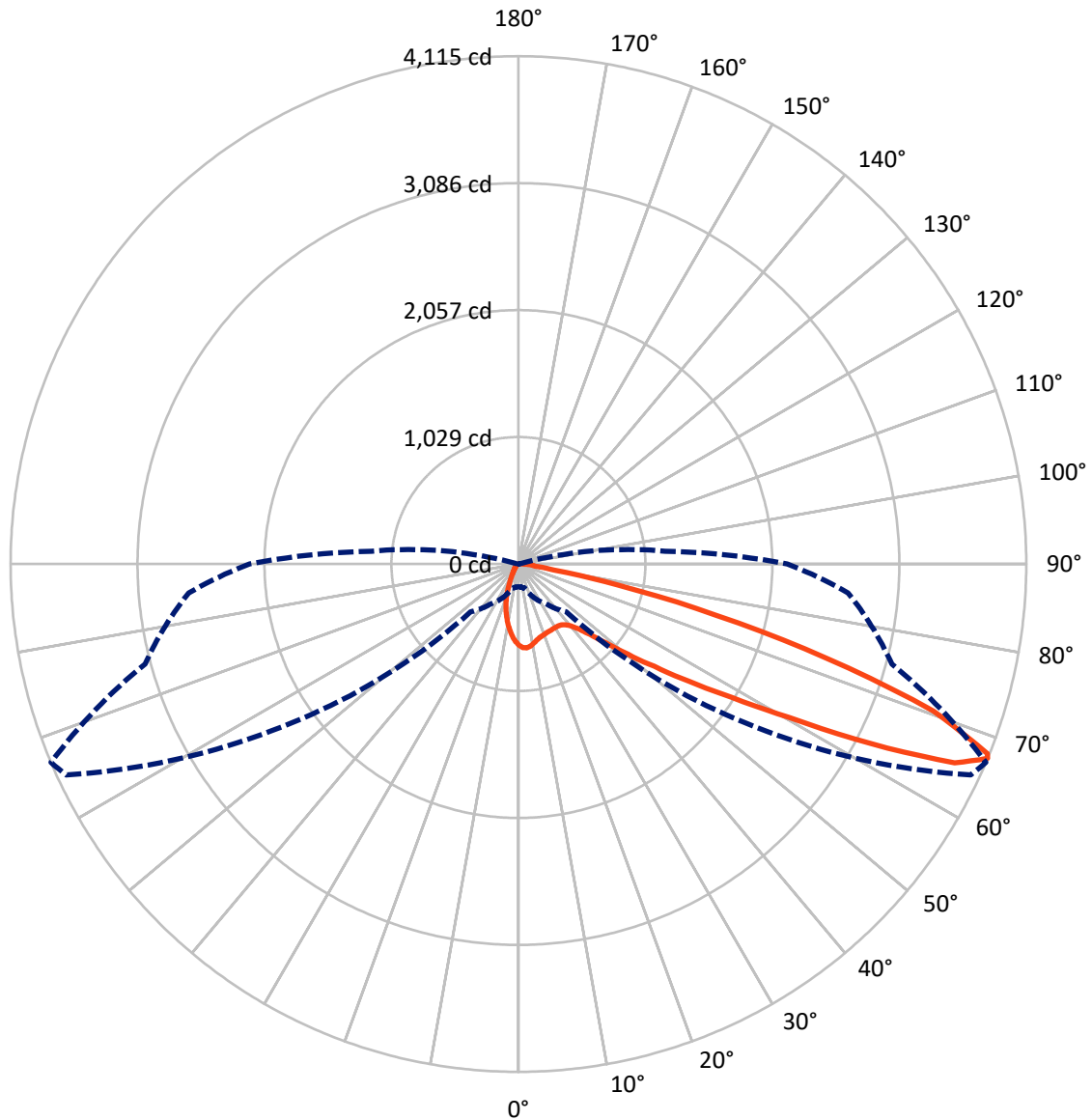


Based on 10 foot mounting height. Maximum calculated value = 6.6 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	310.2	0.0	310.2
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	2677.7	0.0	2677.7
	% Fixture	89.6	0.0	89.6
Total	Lumens	2988.0	0.0	2988.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.6	1.8
10°-20°	114.1	3.8
20°-30°	165.9	5.6
30°-40°	258.8	8.7
40°-50°	458.5	15.3
50°-60°	725.6	24.3
60°-70°	831.0	27.8
70°-80°	344.7	11.5
80°-90°	35.6	1.2
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°	2988.0	100.0
0°-180°	2988.0	100.0

Coefficient of Utilization



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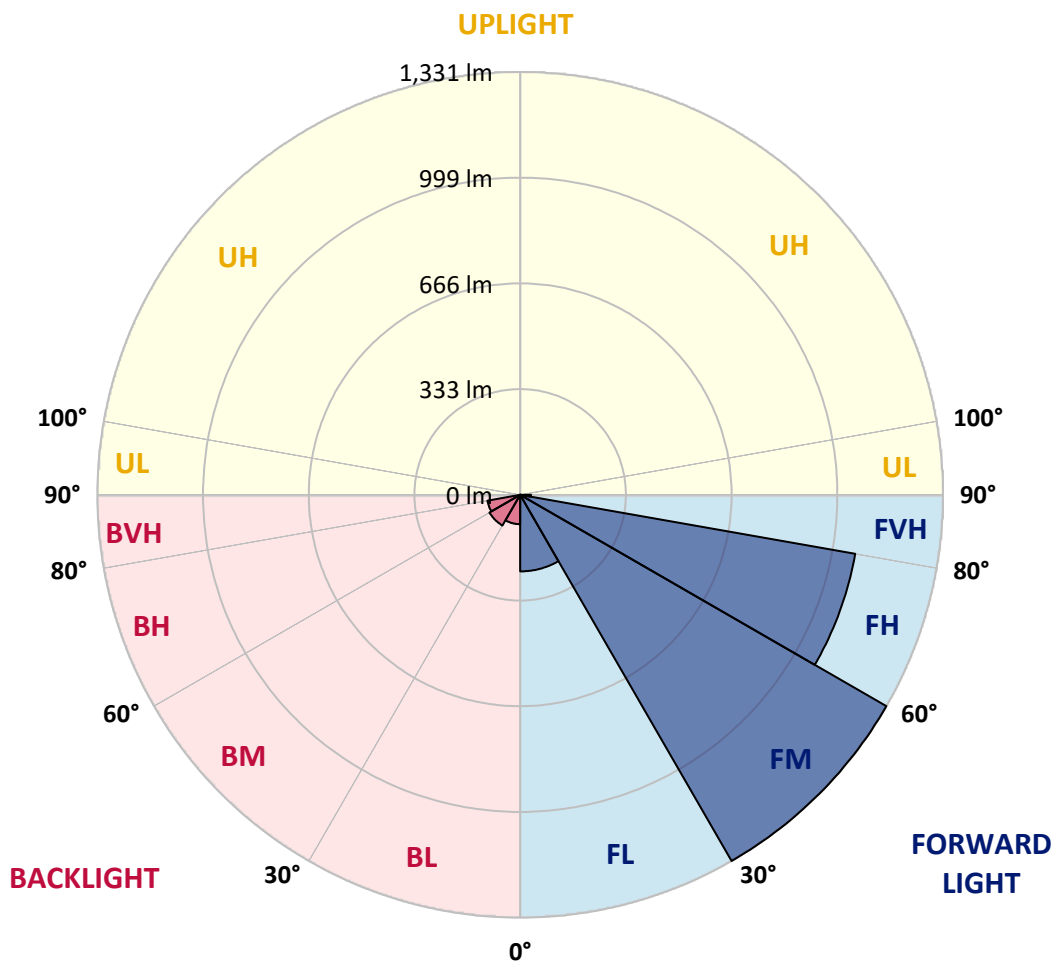
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	241.1	8.1			
FM (30°-60°)	1331.4	44.6			
FH (60°-80°)	1071.2	35.9			G1/1800
FVH (80°-90°)	34.0	1.1			G1/100
BL (0°-30°)	92.6	3.1	B0/110		
BM (30°-60°)	111.5	3.7	B0/220		
BH (60°-80°)	104.6	3.5	B0/110		G0/110
BVH (80°-90°)	1.6	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	659.0	659.0	659.0	659.0	659.0	659.0	659.0	659.0	659.0	659.0	659.0
2.5°	681.3	682.7	682.5	683.5	686.0	686.1	683.7	679.0	678.0	671.9	661.2
5°	628.3	632.3	634.7	644.7	655.8	669.2	679.3	683.0	682.5	678.1	662.1
7.5°	567.8	571.8	574.6	586.3	601.1	624.1	650.4	672.0	673.9	678.6	661.4
10°	527.5	528.2	532.1	543.2	558.7	582.3	613.6	651.5	657.2	674.5	659.7
12.5°	494.4	495.0	500.0	512.0	528.6	552.3	585.2	629.0	637.9	669.2	659.3
15°	470.9	472.8	477.4	489.9	507.5	531.0	564.8	612.4	623.1	667.3	662.4
17.5°	463.1	465.2	466.5	475.6	491.6	514.6	549.3	601.6	613.6	668.4	668.5
20°	471.3	472.8	469.7	472.0	481.9	502.4	536.3	592.4	606.7	669.6	676.4
22.5°	501.8	502.4	493.9	484.0	482.2	493.6	526.0	585.1	600.4	672.9	685.6
25°	554.0	552.8	538.9	517.4	497.2	492.0	519.9	580.5	597.3	676.4	695.2
27.5°	617.1	618.9	599.7	568.5	530.0	502.4	519.0	578.6	595.9	678.8	703.6
30°	693.8	696.2	674.3	635.1	579.8	528.2	527.0	578.3	595.0	677.3	704.3
32.5°	772.1	775.0	757.8	717.3	646.4	571.5	545.1	582.1	596.7	671.9	700.3
35°	854.0	858.2	846.7	812.0	736.7	633.9	577.0	593.8	604.9	671.3	696.2
37.5°	967.1	970.9	949.3	912.5	846.0	717.5	628.3	615.7	624.3	679.7	697.3
40°	1136.0	1135.4	1079.7	1023.4	966.0	823.8	700.3	655.5	659.8	705.0	710.2
42.5°	1320.0	1319.1	1236.7	1151.1	1099.4	954.7	794.9	724.1	721.2	751.5	743.7
45°	1461.9	1461.7	1394.4	1298.0	1259.9	1104.9	917.2	819.6	815.1	827.1	805.3
47.5°	1522.3	1523.4	1489.6	1421.8	1437.8	1308.1	1071.5	958.0	951.2	946.3	913.2
50°	1475.3	1477.4	1480.2	1466.9	1568.3	1581.2	1278.3	1153.0	1149.7	1127.9	1076.2
52.5°	1321.6	1332.2	1365.0	1407.0	1613.7	1843.4	1602.7	1395.3	1377.5	1354.3	1297.3
55°	1062.6	1074.3	1136.5	1238.4	1546.2	2015.6	2057.2	1707.6	1678.0	1608.8	1526.5
57.5°	703.2	721.3	811.6	941.3	1350.3	2043.3	2510.7	2141.0	2037.9	1848.4	1755.7
60°	387.4	404.9	502.8	620.3	975.3	1906.3	2815.7	2705.4	2523.1	2116.3	2034.0
62.5°	238.6	248.0	320.3	429.6	584.9	1504.6	2878.8	3414.5	3203.4	2461.2	2370.2
65°	190.0	194.0	229.4	351.2	419.3	894.9	2675.0	3955.1	3884.7	2878.8	2671.2
67°	184.4	186.0	202.7	301.5	395.3	548.6	2241.1	4043.1	4114.6	3131.5	2680.6
67.5°	185.6	187.4	203.2	287.7	394.6	504.2	2091.5	4008.4	4098.7	3151.5	2639.0
70°	179.0	184.4	232.7	287.6	375.2	419.0	1252.6	3473.1	3567.0	2928.3	2239.2
72.5°	63.4	63.8	100.6	232.7	408.0	423.5	629.0	2546.1	2615.6	2240.0	1614.4
75°	37.6	32.1	33.5	66.2	389.9	411.3	362.9	1626.9	1652.9	1283.6	817.5
77.5°	26.0	22.7	23.4	29.3	148.5	405.6	288.3	848.4	820.7	450.2	174.1
80°	14.8	13.1	13.9	25.6	54.0	378.4	271.9	344.0	293.3	76.3	48.1
82.5°	7.8	6.6	8.0	21.1	37.6	235.8	272.4	166.3	131.8	25.8	32.8
85°	2.8	2.3	3.8	14.5	25.1	72.3	252.5	139.8	109.8	12.5	24.9
87.5°	0.5	0.5	1.6	5.9	10.1	22.1	149.4	83.0	55.6	7.5	17.1
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°	659.0	659.0	659.0	659.0	659.0	659.0	659.0	659.0	659.0	659.0	659.0
2.5°	656.9	649.4	639.3	626.9	612.2	599.3	589.8	579.8	577.7	574.3	573.7
5°	652.5	639.6	614.5	585.8	555.1	527.4	504.9	484.8	476.0	468.3	467.4
7.5°	646.1	626.7	584.0	537.7	489.7	446.2	409.2	383.1	359.0	347.5	345.8
10°	638.6	610.9	549.7	485.4	419.1	357.6	302.7	256.7	228.8	212.3	210.2
12.5°	631.6	595.3	514.6	431.2	343.2	260.9	190.3	146.4	117.1	105.3	103.9
15°	628.3	582.8	481.9	375.7	263.7	166.1	104.0	80.5	70.9	68.1	68.0
17.5°	627.9	572.2	449.8	318.4	184.7	96.6	67.8	61.9	60.0	59.3	59.3
20°	627.8	562.1	417.7	259.0	117.3	64.3	56.5	55.1	53.7	52.8	52.8
22.5°	629.7	553.0	384.3	198.3	73.9	52.1	49.7	48.3	46.5	45.3	45.1
25°	631.6	546.0	350.1	141.2	53.5	45.3	42.9	41.0	38.5	36.9	36.8
27.5°	631.9	537.3	313.5	94.5	44.8	39.6	36.4	33.5	30.7	29.1	28.9
30°	626.7	522.7	272.9	63.8	39.6	34.3	30.2	27.0	24.4	23.2	23.2
32.5°	616.4	504.5	228.3	48.1	35.2	29.5	24.9	22.0	20.2	19.7	19.5
35°	607.2	485.0	182.5	40.8	31.5	24.9	20.4	18.5	17.4	17.3	17.1
37.5°	601.8	469.3	139.4	36.9	28.1	20.9	17.3	15.9	15.3	15.0	15.2
40°	606.0	456.3	103.0	33.8	24.6	17.4	14.6	13.9	13.4	13.2	13.2
42.5°	624.3	454.0	76.5	31.0	21.3	14.5	12.7	12.2	11.9	11.7	11.9
45°	672.4	467.9	59.4	28.4	18.0	12.2	10.8	10.6	10.5	10.5	10.5
47.5°	744.7	496.7	49.5	25.4	15.0	10.5	9.4	9.2	9.1	9.2	9.2
50°	867.2	549.3	44.3	22.5	12.4	8.9	8.0	8.0	8.0	8.0	8.2
52.5°	1053.5	652.9	40.8	19.5	10.1	7.5	6.8	6.8	7.0	7.0	7.1
55°	1261.1	790.2	37.6	16.6	8.5	6.3	5.6	5.8	5.9	6.1	6.1
57.5°	1486.3	942.3	35.0	13.6	7.3	5.1	4.7	4.9	5.1	5.4	5.4
60°	1758.0	1107.0	31.2	10.6	6.1	4.0	3.7	4.0	4.5	4.9	5.1
62.5°	2056.3	1266.3	26.3	8.4	5.1	3.1	3.0	3.7	4.4	4.7	4.9
65°	2260.2	1316.3	20.2	6.8	3.8	2.3	2.4	3.3	4.2	4.7	4.7
67°	2177.6	1193.5	16.6	5.8	3.1	1.7	2.3	3.3	4.2	4.5	4.7
67.5°	2120.3	1145.4	15.9	5.6	3.0	1.7	2.3	3.3	4.2	4.7	4.7
70°	1725.2	860.4	13.2	4.2	2.4	1.6	1.9	3.1	4.0	4.5	4.5
72.5°	1198.7	530.5	11.9	3.0	2.1	1.4	1.7	3.0	3.8	4.4	4.5
75°	569.9	192.1	10.1	2.3	1.9	1.2	1.6	3.0	3.8	4.4	4.4
77.5°	116.2	44.6	8.2	1.9	1.6	1.2	1.4	2.8	3.7	4.2	4.2
80°	38.2	17.3	6.1	1.7	1.6	1.2	1.4	2.6	3.7	4.0	4.2
82.5°	27.5	8.7	4.0	1.7	1.6	1.2	1.2	2.6	3.5	4.0	4.0
85°	21.1	6.1	2.6	1.7	1.6	1.2	1.2	2.4	3.3	3.8	3.8
87.5°	13.9	2.4	2.1	1.7	1.6	1.2	1.2	2.4	3.1	3.7	3.8
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)