

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: P268987

Luminaire Tested: **GLEON-AF-01-LED-E1-SL2-7027-600-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P268987  
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: GLEON-AF-01-LED-E1-SL2-7027-600-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 2700K, 615mA 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: 2955.2 lumens  
Efficiency: N/A  
Efficacy: 86.9 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

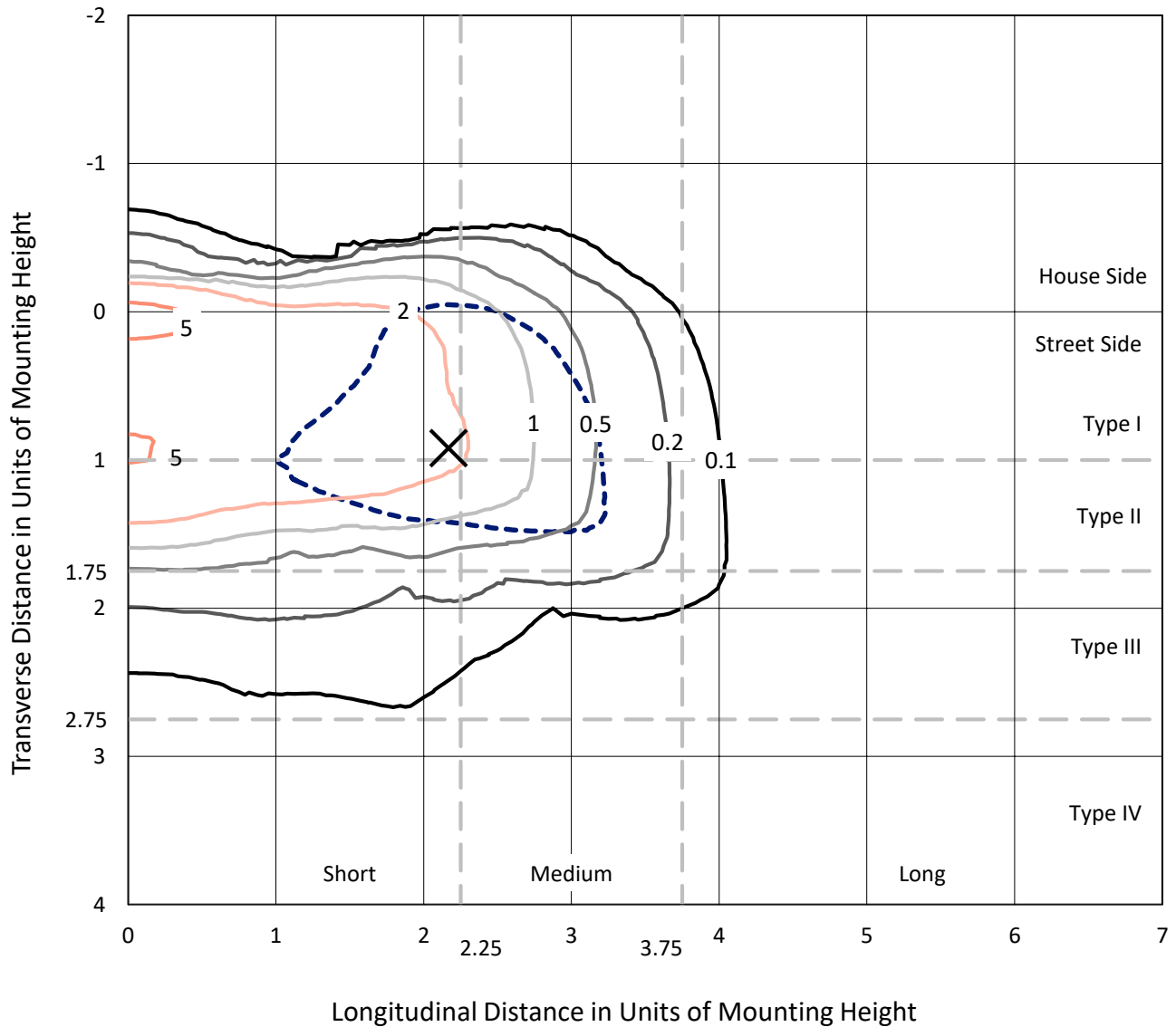


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

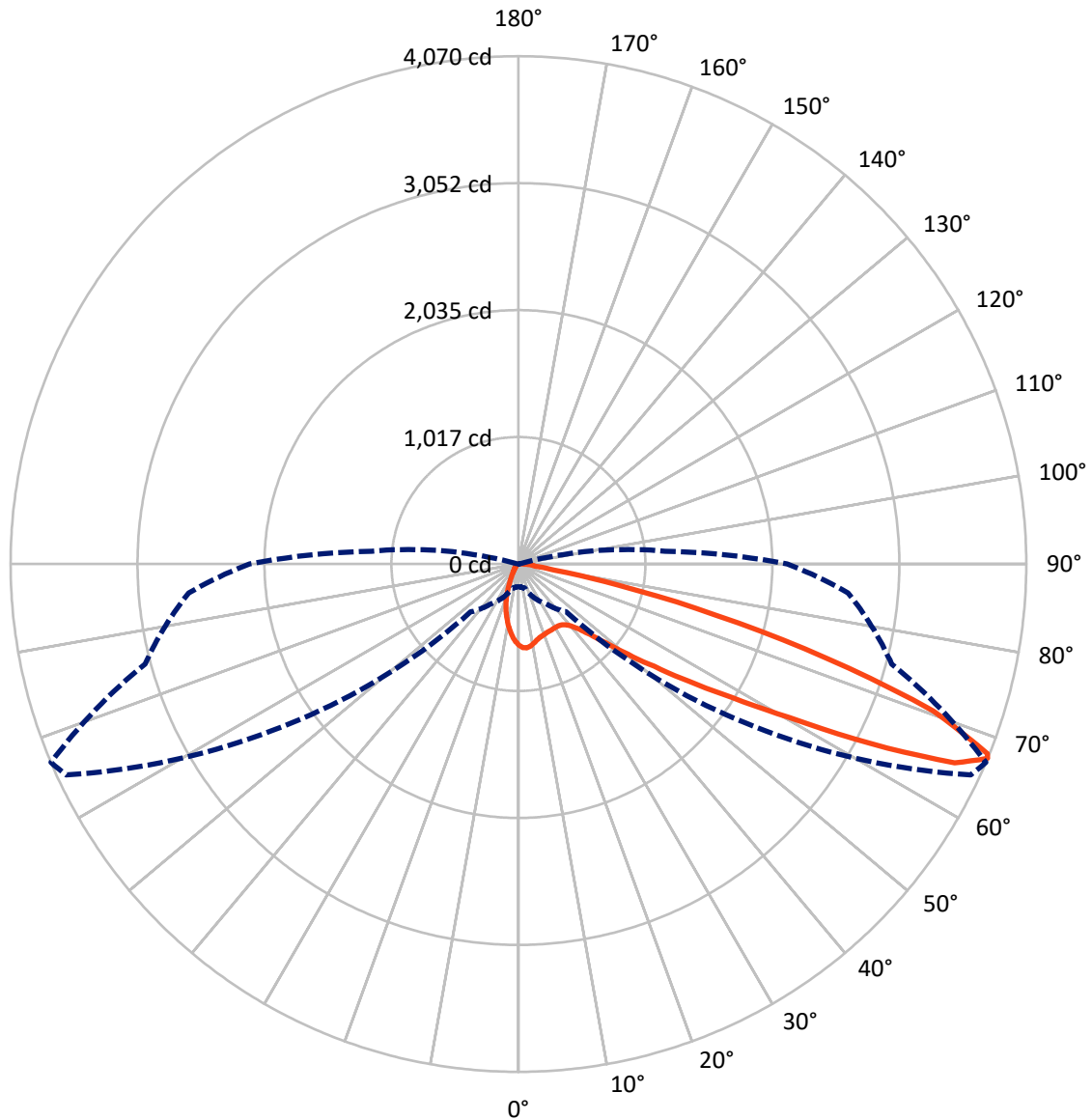


Based on 10 foot mounting height. Maximum calculated value = 6.5 fc  
 Type II - Short - Semi-Cutoff

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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
<b>House Side</b>	Lumens	306.8	0.0	306.8
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	2648.4	0.0	2648.4
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	2955.2	0.0	2955.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	53.0	1.8
10°-20°	112.9	3.8
20°-30°	164.1	5.6
30°-40°	256.0	8.7
40°-50°	453.5	15.3
50°-60°	717.6	24.3
60°-70°	821.9	27.8
70°-80°	340.9	11.5
80°-90°	35.2	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°	2955.2	100.0
0°-180°	2955.2	100.0



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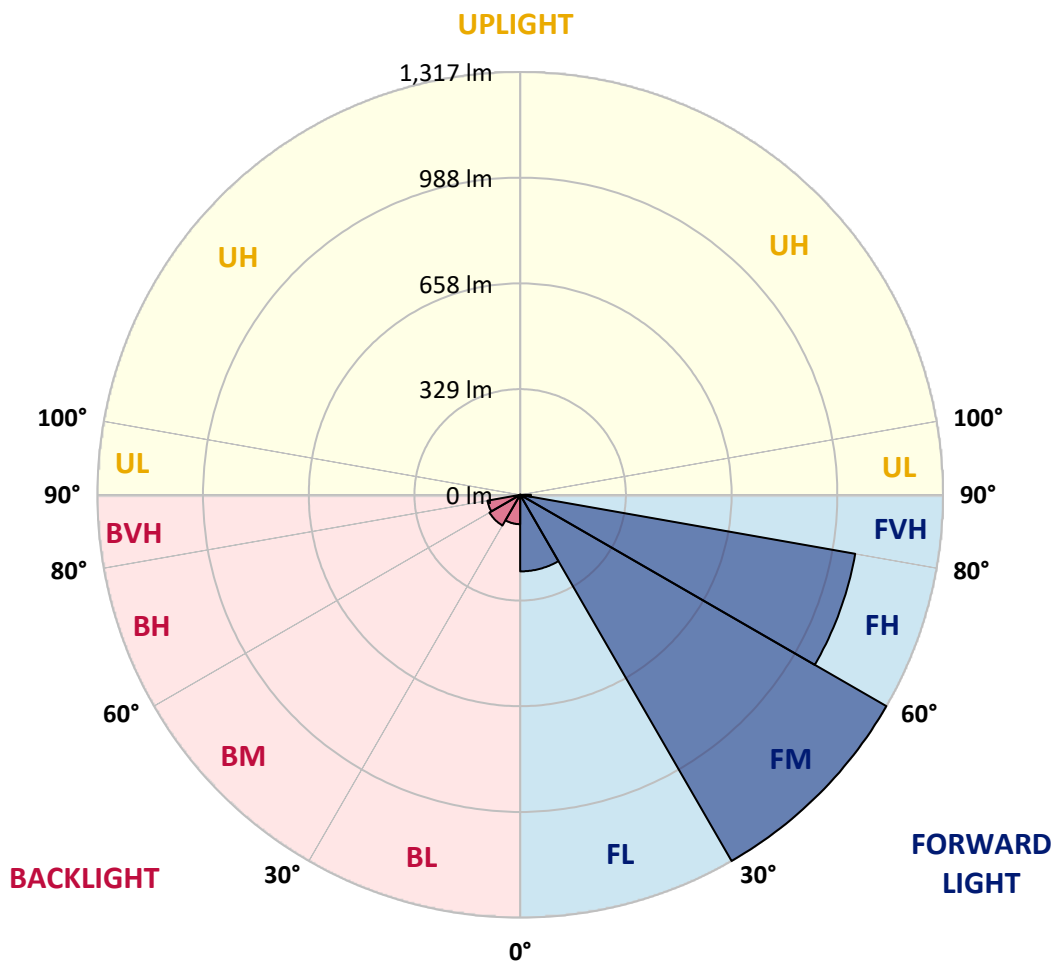
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	238.4	8.1			
FM	(30°-60°)	1316.9	44.6			
FH	(60°-80°)	1059.5	35.9			G1/1800
FVH	(80°-90°)	33.6	1.1			G1/100
BL	(0°-30°)	91.6	3.1	B0/110		
BM	(30°-60°)	110.3	3.7	B0/220		
BH	(60°-80°)	103.4	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°	651.7	651.7	651.7	651.7	651.7	651.7	651.7	651.7	651.7	651.7	651.7
2.5°	673.8	675.2	674.9	676.1	678.5	678.6	676.2	671.6	670.6	664.4	654.0
5°	621.4	625.4	627.7	637.5	648.7	662.0	671.9	675.5	674.9	670.8	654.9
7.5°	561.6	565.6	568.3	579.9	594.5	617.2	643.2	664.7	666.5	671.3	654.1
10°	521.7	522.5	526.2	537.2	552.6	576.0	607.0	644.4	650.1	667.1	652.3
12.5°	488.9	489.5	494.5	506.5	522.9	546.3	578.8	622.0	630.9	662.0	652.1
15°	465.7	467.7	472.1	484.5	502.0	525.1	558.7	605.6	616.2	660.1	655.1
17.5°	458.0	460.0	461.4	470.4	486.3	509.0	543.4	595.0	607.0	661.1	661.2
20°	466.1	467.7	464.6	466.8	476.6	496.9	530.4	585.9	600.0	662.2	669.0
22.5°	496.3	496.9	488.5	478.6	477.0	488.1	520.2	578.7	593.8	665.6	678.1
25°	548.0	546.8	533.0	511.8	491.8	486.6	514.2	574.1	590.7	669.0	687.7
27.5°	610.4	612.0	593.2	562.2	524.3	496.9	513.3	572.3	589.4	671.5	695.8
30°	686.2	688.6	666.9	628.2	573.5	522.5	521.2	572.0	588.5	669.9	696.5
32.5°	763.6	766.6	749.5	709.5	639.4	565.3	539.3	575.8	590.1	664.4	692.7
35°	844.6	848.8	837.4	803.1	728.6	626.8	570.8	587.3	598.4	663.9	688.6
37.5°	956.4	960.3	938.9	902.5	836.7	709.7	621.4	609.1	617.5	672.2	689.7
40°	1123.5	1123.1	1067.8	1012.2	955.4	814.9	692.7	648.2	652.6	697.3	702.5
42.5°	1305.5	1304.7	1223.1	1138.5	1087.3	944.3	786.1	716.2	713.3	743.3	735.5
45°	1445.8	1445.7	1379.2	1283.9	1246.0	1092.9	907.2	810.7	806.1	818.0	796.5
47.5°	1505.6	1506.6	1473.3	1406.1	1422.0	1293.7	1059.7	947.5	940.9	935.9	903.2
50°	1459.1	1461.3	1464.0	1450.9	1551.2	1563.9	1264.4	1140.4	1137.2	1115.5	1064.4
52.5°	1307.2	1317.6	1350.1	1391.6	1596.0	1823.2	1585.1	1380.1	1362.4	1339.6	1283.0
55°	1050.9	1062.5	1124.0	1224.8	1529.3	1993.5	2034.8	1689.0	1659.6	1591.2	1509.8
57.5°	695.5	713.4	802.7	931.0	1335.5	2020.8	2483.2	2117.6	2015.5	1828.2	1736.5
60°	383.1	400.5	497.3	613.5	964.6	1885.5	2784.8	2675.7	2495.4	2093.1	2011.8
62.5°	236.0	245.2	316.8	424.9	578.5	1488.1	2847.3	3377.1	3168.4	2434.2	2344.2
65°	187.8	191.9	226.8	347.4	414.7	885.1	2645.8	3911.8	3842.2	2847.3	2641.9
67°	182.4	184.0	200.5	298.1	390.9	542.7	2216.6	3998.9	4069.5	3097.1	2651.3
67.5°	183.6	185.3	201.0	284.7	390.3	498.6	2068.6	3964.6	4053.8	3116.9	2610.0
70°	177.1	182.4	230.1	284.5	371.1	414.4	1238.9	3434.9	3528.0	2896.1	2214.6
72.5°	62.7	63.2	99.4	230.1	403.5	418.9	622.0	2518.2	2586.9	2215.5	1596.6
75°	37.2	31.7	33.1	65.4	385.6	406.8	359.0	1609.1	1634.7	1269.6	808.7
77.5°	25.7	22.4	23.0	28.9	146.9	401.2	285.1	839.0	811.7	445.2	172.1
80°	14.6	12.9	13.7	25.3	53.4	374.2	269.0	340.3	290.2	75.5	47.6
82.5°	7.7	6.6	7.9	20.9	37.2	233.2	269.4	164.4	130.3	25.5	32.3
85°	2.8	2.2	3.9	14.4	24.9	71.5	249.8	138.2	108.5	12.3	24.7
87.5°	0.4	0.4	1.5	5.8	10.1	21.9	147.7	82.0	54.9	7.5	16.9
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°	651.7	651.7	651.7	651.7	651.7	651.7	651.7	651.7	651.7	651.7	651.7
2.5°	649.7	642.3	632.2	620.0	605.5	592.8	583.3	573.5	571.4	568.0	567.5
5°	645.3	632.5	607.9	579.3	549.0	521.6	499.4	479.5	470.7	463.2	462.3
7.5°	639.0	619.8	577.6	531.7	484.4	441.2	404.7	378.8	355.1	343.7	342.0
10°	631.6	604.2	543.7	480.1	414.6	353.8	299.4	254.0	226.4	209.9	207.9
12.5°	624.7	588.7	509.0	426.4	339.4	258.1	188.3	144.7	115.8	104.2	102.8
15°	621.4	576.4	476.6	371.5	260.8	164.3	102.9	79.6	70.2	67.5	67.3
17.5°	621.1	565.9	444.9	314.9	182.7	95.5	67.1	61.2	59.3	58.6	58.6
20°	620.9	556.0	413.2	256.1	116.1	63.6	55.9	54.4	53.1	52.2	52.2
22.5°	622.7	547.0	380.2	196.2	73.1	51.6	49.1	47.7	46.1	44.8	44.6
25°	624.7	540.1	346.2	139.6	52.9	44.8	42.4	40.6	38.1	36.6	36.4
27.5°	625.0	531.4	310.1	93.5	44.2	39.2	36.0	33.1	30.4	28.7	28.7
30°	619.8	517.0	269.9	63.2	39.2	34.0	29.9	26.7	24.2	22.9	22.9
32.5°	609.7	499.0	225.8	47.6	34.9	29.1	24.7	21.6	20.0	19.5	19.4
35°	600.5	479.8	180.5	40.3	31.3	24.7	20.1	18.2	17.2	17.1	16.9
37.5°	595.1	464.2	137.9	36.6	27.8	20.8	17.1	15.7	15.2	14.8	15.0
40°	599.3	451.3	101.9	33.4	24.3	17.2	14.6	13.7	13.2	13.0	13.0
42.5°	617.5	449.1	75.6	30.7	21.0	14.4	12.5	12.0	11.7	11.6	11.7
45°	665.0	462.8	58.7	28.0	17.7	12.0	10.7	10.5	10.3	10.3	10.3
47.5°	736.5	491.3	49.0	25.2	14.8	10.3	9.3	9.2	9.0	9.2	9.2
50°	857.7	543.4	43.7	22.3	12.2	8.9	7.9	7.9	7.9	7.9	8.2
52.5°	1042.0	645.7	40.3	19.4	10.1	7.5	6.6	6.6	6.8	6.8	7.0
55°	1247.2	781.5	37.2	16.3	8.4	6.2	5.5	5.7	5.8	6.0	6.0
57.5°	1469.9	932.0	34.7	13.5	7.2	5.0	4.6	4.9	5.0	5.3	5.3
60°	1738.7	1094.9	30.8	10.5	6.0	4.0	3.7	4.0	4.5	4.9	5.0
62.5°	2033.9	1252.4	26.1	8.3	5.0	3.1	3.0	3.7	4.3	4.6	4.9
65°	2235.5	1302.0	20.0	6.6	3.9	2.2	2.4	3.2	4.1	4.6	4.6
67°	2153.7	1180.5	16.3	5.7	3.1	1.7	2.2	3.2	4.1	4.5	4.6
67.5°	2097.1	1132.9	15.7	5.5	3.0	1.7	2.2	3.2	4.1	4.6	4.6
70°	1706.3	851.1	13.0	4.1	2.4	1.5	1.8	3.1	4.0	4.5	4.5
72.5°	1185.6	524.7	11.7	3.0	2.1	1.3	1.7	3.0	3.9	4.3	4.5
75°	563.6	189.9	10.1	2.2	1.8	1.2	1.5	3.0	3.9	4.3	4.3
77.5°	115.0	44.1	8.2	1.8	1.5	1.2	1.3	2.8	3.7	4.1	4.1
80°	37.8	17.1	6.0	1.7	1.5	1.2	1.3	2.5	3.7	4.0	4.1
82.5°	27.2	8.7	4.0	1.7	1.5	1.2	1.2	2.5	3.5	4.0	4.0
85°	20.9	6.0	2.5	1.7	1.5	1.2	1.2	2.4	3.2	3.9	3.9
87.5°	13.7	2.4	2.1	1.7	1.5	1.2	1.2	2.4	3.1	3.7	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)