

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: P270089

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P270089  
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: GWC-AF-01-LED-E1-SL2-7027-600-HSS  
Description: GALLEON WALL 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: 2963 lumens  
Efficiency: N/A  
Efficacy: 87.1 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

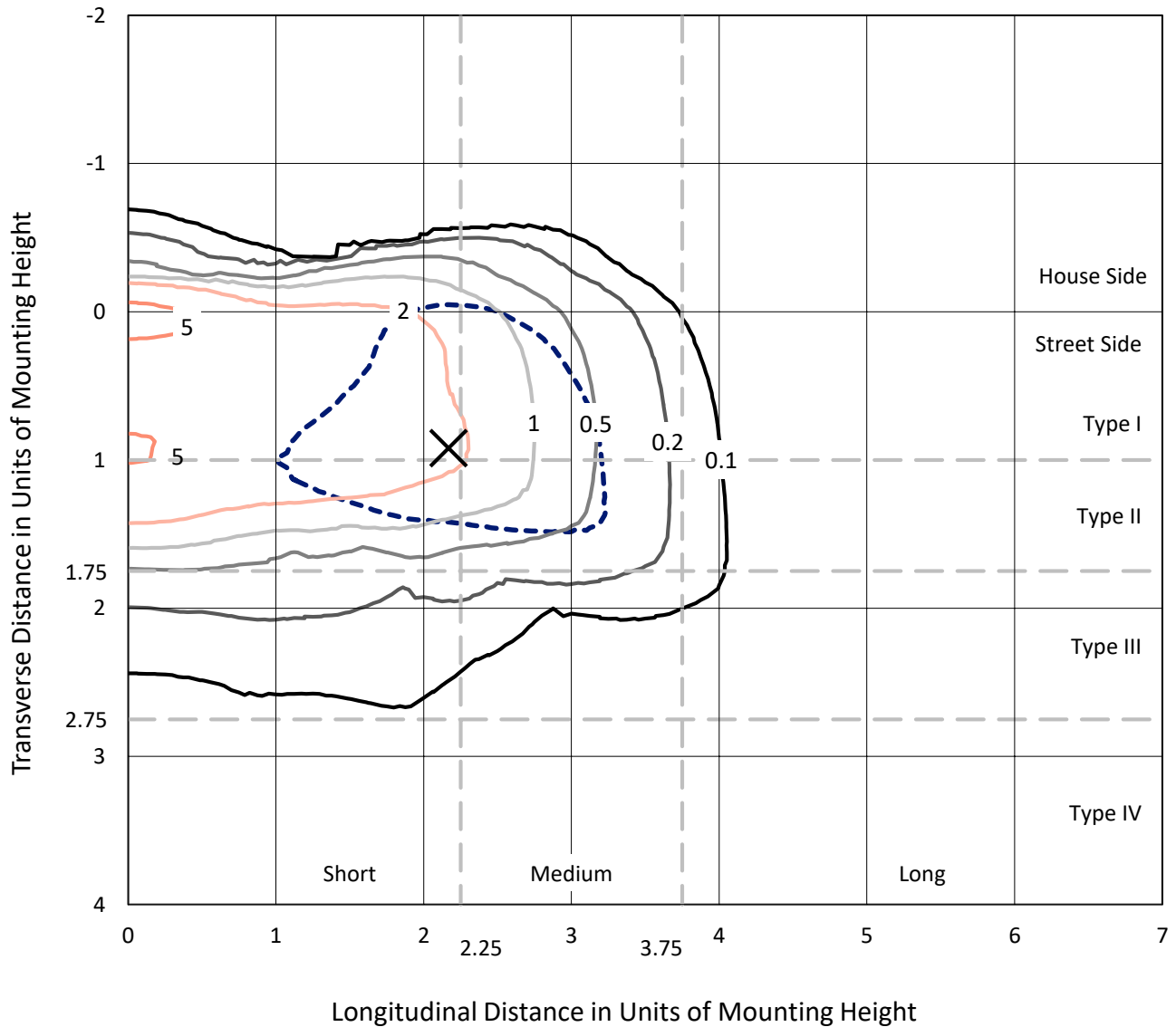


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

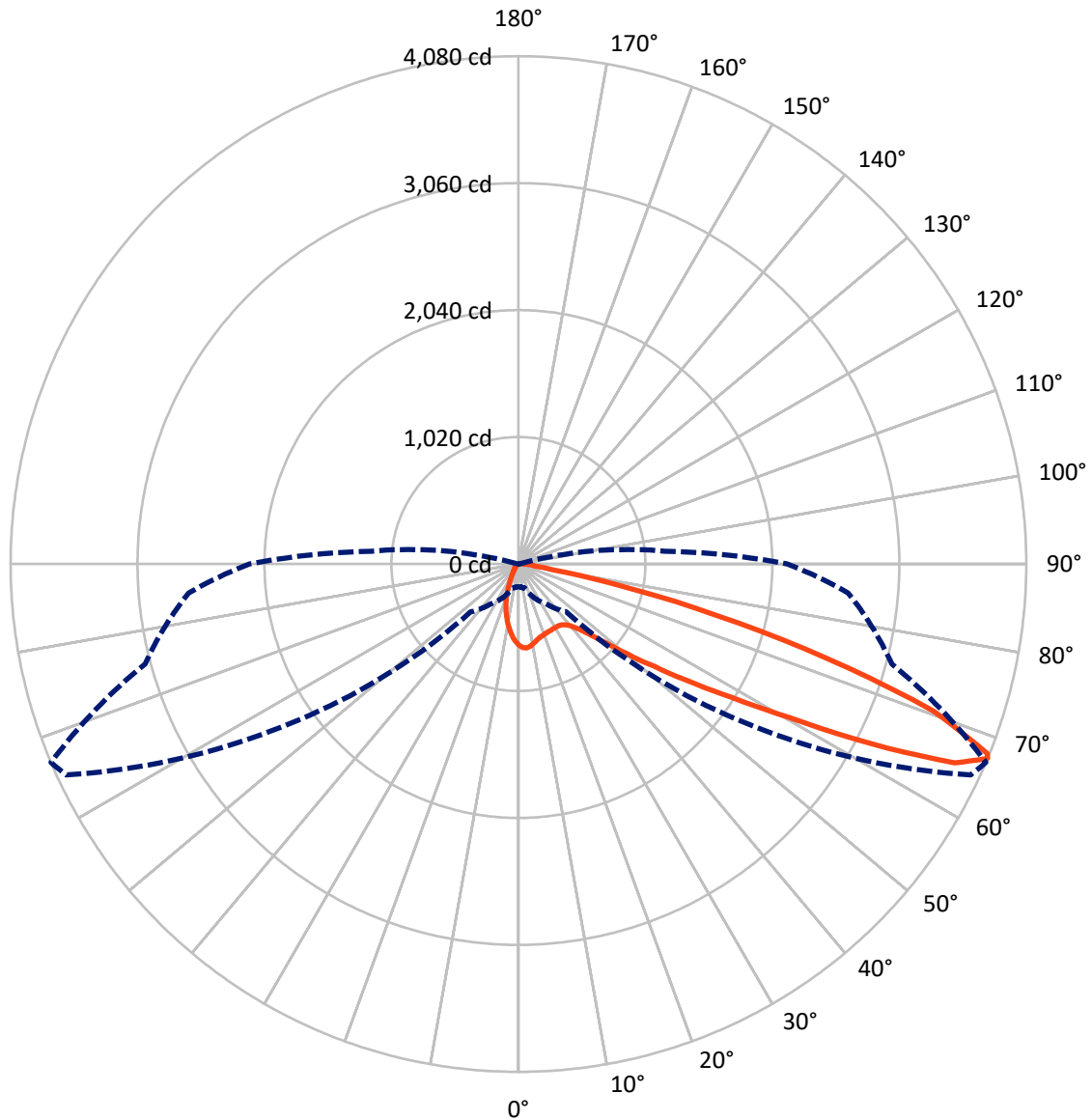


Based on 10 foot mounting height. Maximum calculated value = 6.5 fc  
 Type II - Short - Semi-Cutoff

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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	307.7	0.0	307.7
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	2655.4	0.0	2655.4
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	2963.0	0.0	2963.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	53.2	1.8
10°-20°	113.2	3.8
20°-30°	164.5	5.6
30°-40°	256.7	8.7
40°-50°	454.7	15.3
50°-60°	719.5	24.3
60°-70°	824.1	27.8
70°-80°	341.8	11.5
80°-90°	35.3	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°	2963.0	100.0
0°-180°	2963.0	100.0



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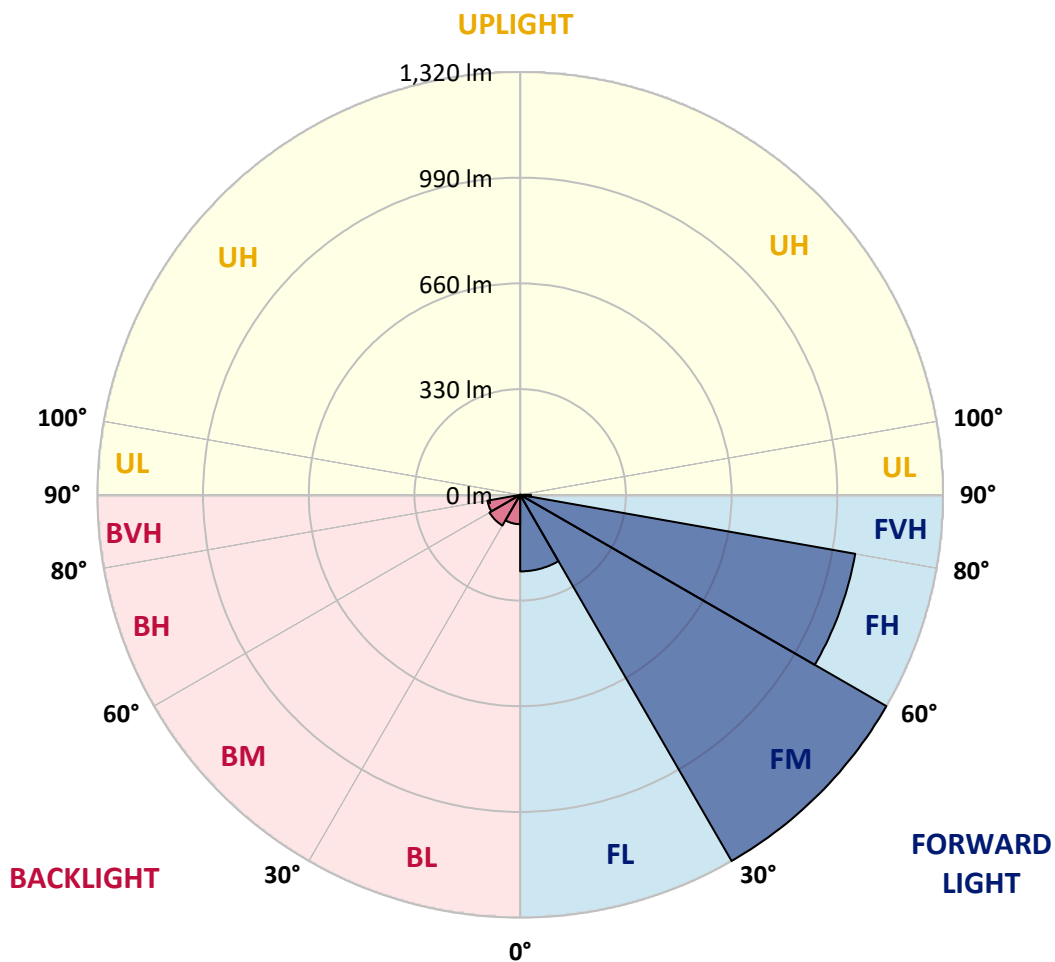
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	239.1	8.1			
FM	(30°-60°)	1320.3	44.6			
FH	(60°-80°)	1062.3	35.9			G1/1800
FVH	(80°-90°)	33.7	1.1			G1/100
BL	(0°-30°)	91.8	3.1	B0/110		
BM	(30°-60°)	110.6	3.7	B0/220		
BH	(60°-80°)	103.7	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°	653.5	653.5	653.5	653.5	653.5	653.5	653.5	653.5	653.5	653.5	653.5
2.5°	675.6	677.0	676.9	677.8	680.2	680.4	678.0	673.4	672.3	666.2	655.7
5°	623.0	627.0	629.4	639.3	650.3	663.6	673.6	677.3	676.9	672.5	656.6
7.5°	563.1	567.0	569.8	581.4	596.1	618.8	645.0	666.5	668.3	673.0	655.9
10°	523.2	523.8	527.7	538.7	554.1	577.4	608.5	646.1	651.7	668.8	654.1
12.5°	490.3	490.8	495.9	507.8	524.2	547.6	580.4	623.8	632.6	663.6	653.8
15°	467.0	468.9	473.3	485.8	503.2	526.6	560.1	607.3	617.9	661.8	656.9
17.5°	459.2	461.3	462.6	471.6	487.5	510.4	544.7	596.6	608.5	662.8	662.9
20°	467.4	468.9	465.8	468.0	477.9	498.3	531.8	587.4	601.6	664.0	670.8
22.5°	497.6	498.3	489.8	479.9	478.2	489.5	521.6	580.1	595.4	667.3	679.9
25°	549.4	548.2	534.4	513.1	493.1	488.0	515.5	575.7	592.3	670.8	689.4
27.5°	612.0	613.7	594.8	563.8	525.5	498.3	514.6	573.8	590.9	673.2	697.7
30°	688.0	690.4	668.6	629.7	574.9	523.8	522.6	573.4	590.0	671.7	698.3
32.5°	765.6	768.6	751.4	711.4	641.0	566.7	540.6	577.3	591.7	666.2	694.4
35°	846.8	851.0	839.6	805.2	730.6	628.6	572.2	588.8	599.9	665.7	690.4
37.5°	959.0	962.8	941.4	905.0	838.9	711.5	623.0	610.6	619.0	674.0	691.5
40°	1126.5	1125.9	1070.7	1014.8	958.0	816.9	694.4	650.0	654.3	699.2	704.3
42.5°	1309.0	1308.1	1226.5	1141.5	1090.2	946.7	788.3	718.1	715.1	745.2	737.4
45°	1449.7	1449.5	1382.9	1287.2	1249.4	1095.7	909.5	812.8	808.4	820.2	798.6
47.5°	1509.7	1510.7	1477.2	1409.9	1425.9	1297.2	1062.6	950.0	943.3	938.4	905.6
50°	1463.0	1465.0	1467.8	1454.7	1555.2	1568.1	1267.7	1143.5	1140.1	1118.6	1067.2
52.5°	1310.5	1321.0	1353.6	1395.2	1600.2	1828.0	1589.3	1383.7	1366.1	1343.1	1286.6
55°	1053.7	1065.3	1127.0	1228.2	1533.3	1998.8	2040.1	1693.4	1663.9	1595.4	1513.7
57.5°	697.4	715.3	804.9	933.5	1339.1	2026.3	2489.7	2123.1	2020.8	1833.0	1741.1
60°	384.2	401.5	498.6	615.1	967.2	1890.4	2792.2	2682.8	2502.0	2098.6	2017.1
62.5°	236.6	246.0	317.6	426.0	579.9	1492.0	2854.8	3386.1	3176.8	2440.7	2350.5
65°	188.4	192.4	227.5	348.2	415.8	887.4	2652.8	3922.1	3852.4	2854.8	2648.9
67°	182.8	184.4	201.0	299.0	392.0	544.1	2222.4	4009.4	4080.3	3105.4	2658.3
67.5°	184.1	185.9	201.6	285.3	391.2	500.0	2074.1	3975.1	4064.5	3125.2	2616.9
70°	177.5	182.8	230.7	285.2	372.2	415.5	1242.2	3444.1	3537.3	2903.8	2220.5
72.5°	62.9	63.3	99.8	230.7	404.6	420.0	623.8	2524.8	2593.8	2221.3	1600.9
75°	37.4	31.8	33.1	65.7	386.6	407.8	359.8	1613.4	1639.0	1272.9	810.7
77.5°	25.8	22.5	23.2	29.0	147.2	402.2	285.8	841.4	813.9	446.5	172.7
80°	14.6	12.9	13.8	25.3	53.5	375.2	269.6	341.2	290.9	75.7	47.7
82.5°	7.8	6.6	7.9	20.9	37.4	233.9	270.1	164.9	130.6	25.6	32.5
85°	2.8	2.2	3.8	14.4	24.9	71.7	250.4	138.6	108.9	12.5	24.7
87.5°	0.4	0.4	1.5	5.9	10.1	21.9	148.1	82.3	55.1	7.5	17.0
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°	653.5	653.5	653.5	653.5	653.5	653.5	653.5	653.5	653.5	653.5	653.5
2.5°	651.4	643.9	633.9	621.6	607.2	594.3	584.9	574.9	572.9	569.4	569.0
5°	647.0	634.3	609.4	580.8	550.5	522.9	500.6	480.8	472.0	464.4	463.5
7.5°	640.7	621.4	579.1	533.1	485.6	442.5	405.9	379.9	356.0	344.7	342.9
10°	633.2	605.7	545.2	481.4	415.6	354.7	300.1	254.6	226.9	210.6	208.4
12.5°	626.3	590.4	510.4	427.6	340.3	258.7	188.7	145.2	116.2	104.4	103.0
15°	623.0	578.0	477.9	372.6	261.5	164.7	103.1	79.9	70.3	67.6	67.5
17.5°	622.7	567.5	446.0	315.8	183.3	95.7	67.3	61.4	59.5	58.7	58.7
20°	622.5	557.4	414.3	256.8	116.3	63.8	56.0	54.6	53.3	52.4	52.4
22.5°	624.4	548.4	381.2	196.6	73.2	51.7	49.3	47.9	46.1	45.0	44.7
25°	626.3	541.5	347.3	140.0	53.1	45.0	42.6	40.6	38.2	36.7	36.5
27.5°	626.7	532.8	310.9	93.7	44.4	39.3	36.1	33.1	30.4	28.8	28.7
30°	621.4	518.3	270.7	63.3	39.3	34.0	29.9	26.9	24.3	23.0	23.0
32.5°	611.3	500.4	226.5	47.7	34.9	29.2	24.7	21.8	20.0	19.5	19.4
35°	602.1	481.0	180.9	40.4	31.3	24.7	20.3	18.3	17.2	17.1	17.0
37.5°	596.7	465.4	138.2	36.7	27.8	20.8	17.1	15.7	15.3	14.8	15.1
40°	600.9	452.4	102.1	33.6	24.4	17.2	14.5	13.8	13.3	13.1	13.1
42.5°	619.0	450.2	75.8	30.8	21.1	14.4	12.7	12.0	11.8	11.6	11.8
45°	666.8	464.0	58.9	28.2	17.8	12.0	10.7	10.5	10.3	10.3	10.3
47.5°	738.5	492.5	49.1	25.2	14.8	10.3	9.3	9.2	9.0	9.2	9.2
50°	859.9	544.7	43.9	22.3	12.2	8.8	7.9	7.9	7.9	7.9	8.1
52.5°	1044.7	647.4	40.4	19.4	10.1	7.5	6.7	6.7	6.9	6.9	7.0
55°	1250.5	783.6	37.4	16.4	8.5	6.2	5.5	5.7	5.9	6.1	6.1
57.5°	1473.9	934.4	34.8	13.5	7.3	5.0	4.7	4.9	5.0	5.4	5.4
60°	1743.3	1097.8	31.0	10.5	6.1	4.0	3.7	4.0	4.5	4.9	5.0
62.5°	2039.2	1255.7	26.1	8.3	5.0	3.1	2.9	3.7	4.3	4.7	4.9
65°	2241.5	1305.3	20.0	6.7	3.8	2.2	2.4	3.3	4.1	4.7	4.7
67°	2159.5	1183.5	16.4	5.7	3.1	1.7	2.2	3.3	4.1	4.5	4.7
67.5°	2102.6	1135.8	15.7	5.5	2.9	1.7	2.2	3.3	4.1	4.7	4.7
70°	1710.8	853.2	13.1	4.1	2.4	1.5	1.9	3.1	4.0	4.5	4.5
72.5°	1188.7	526.1	11.8	2.9	2.1	1.3	1.7	2.9	3.8	4.3	4.5
75°	565.1	190.4	10.1	2.2	1.9	1.3	1.5	2.9	3.8	4.3	4.3
77.5°	115.3	44.3	8.1	1.9	1.5	1.3	1.3	2.8	3.7	4.1	4.1
80°	37.8	17.1	6.1	1.7	1.5	1.3	1.3	2.6	3.7	4.0	4.1
82.5°	27.3	8.7	4.0	1.7	1.5	1.3	1.3	2.6	3.5	4.0	4.0
85°	20.9	6.1	2.6	1.7	1.5	1.3	1.3	2.4	3.3	3.8	3.8
87.5°	13.8	2.4	2.1	1.7	1.5	1.3	1.3	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)