

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: P450341

Luminaire Tested: **GALN-SA1A-827-U-SL2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450341  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA1A-827-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS 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: 2784 lumens  
Efficiency: N/A  
Efficacy: 84.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B0 - U0 - G1

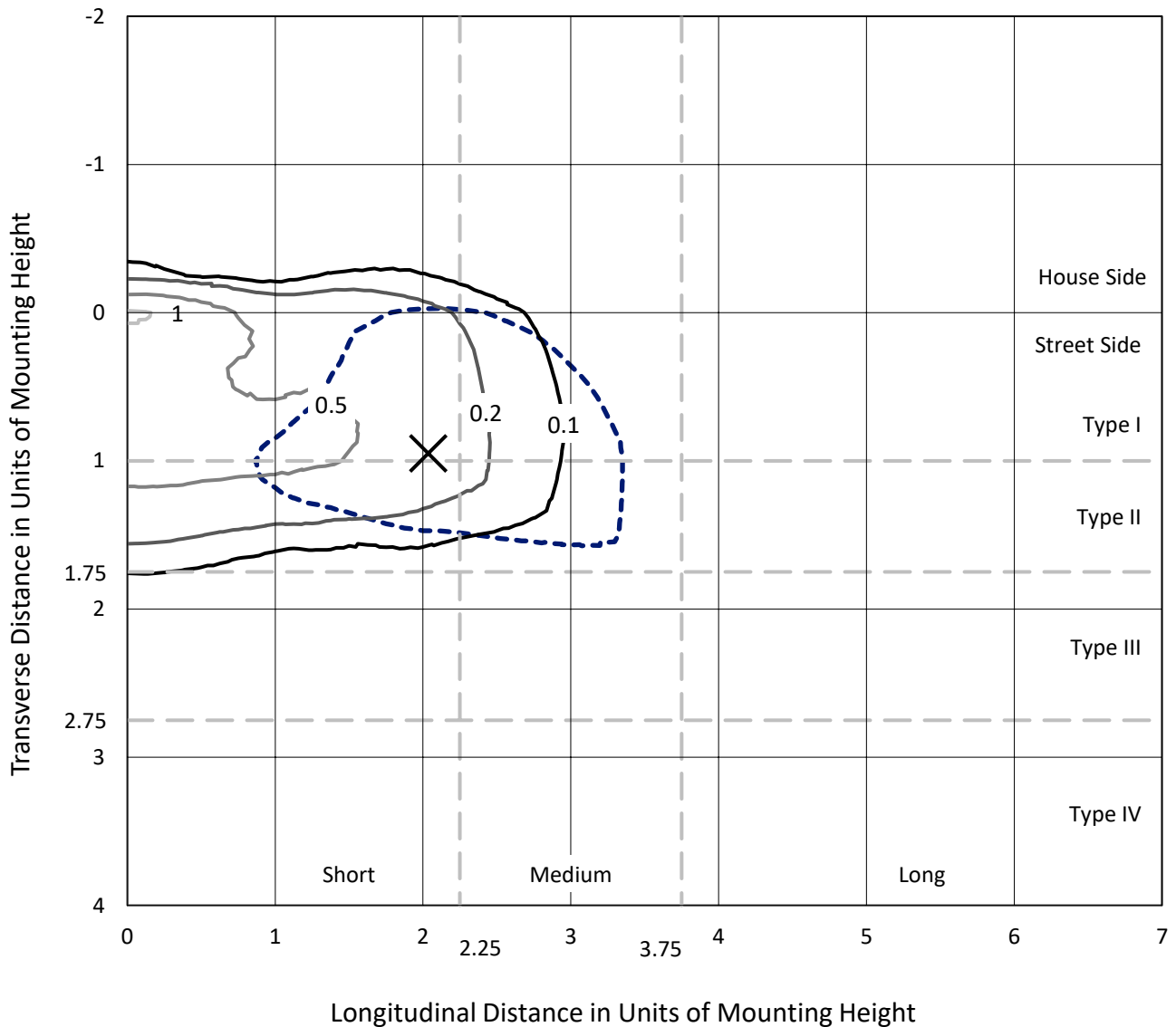
Input Watts (W): 33  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

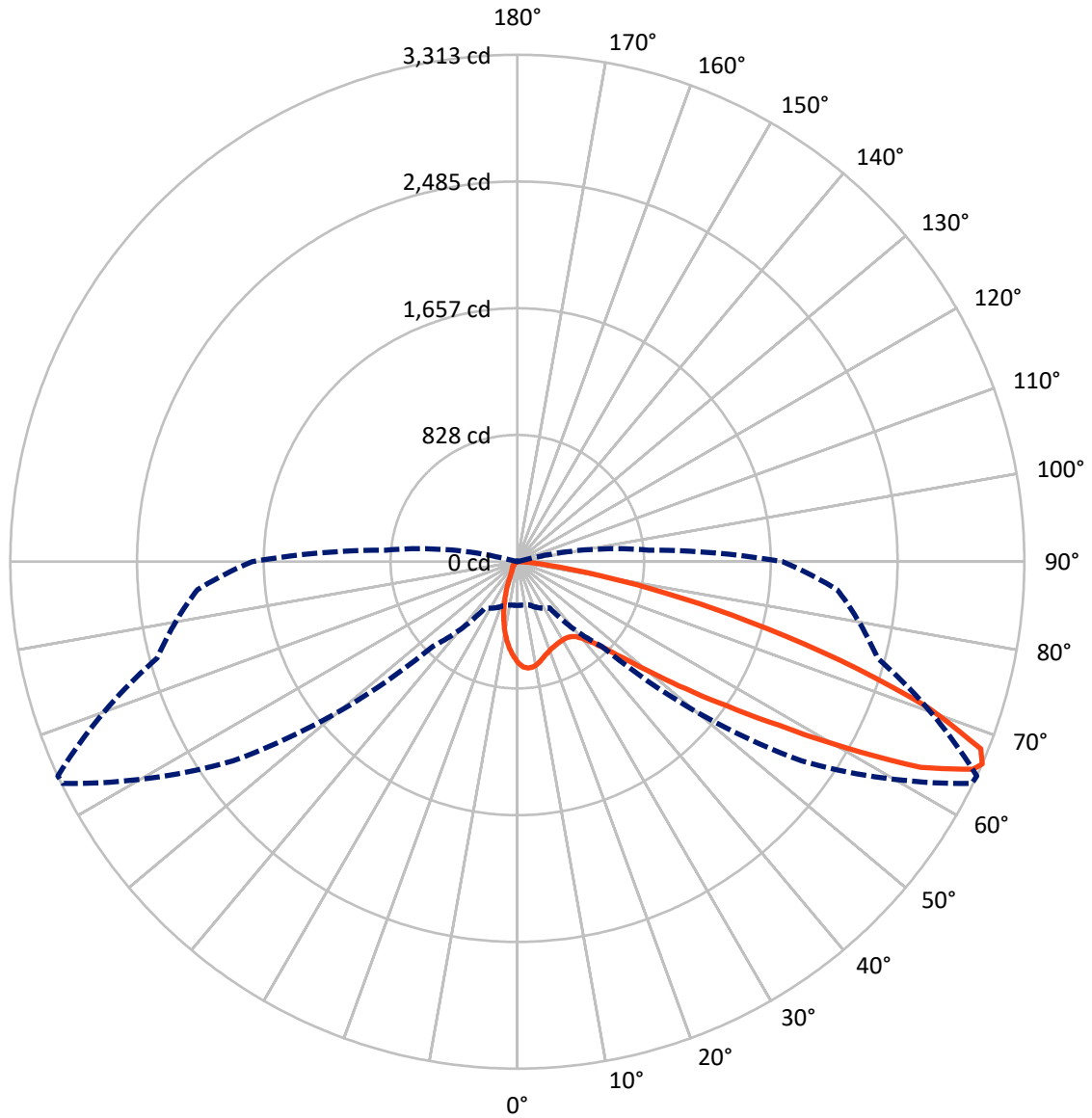
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	287.9	0.0	287.9
	% Fixture	10.3	0.0	10.3
<b>Street Side</b>	Lumens	2496.1	0.0	2496.1
	% Fixture	89.7	0.0	89.7
<b>Total</b>	Lumens	2784.0	0.0	2784.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	54.0	1.9
10°-20°	117.6	4.2
20°-30°	168.5	6.1
30°-40°	246.1	8.8
40°-50°	412.7	14.8
50°-60°	688.8	24.7
60°-70°	731.1	26.3
70°-80°	331.1	11.9
80°-90°	33.9	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°	2784.0	100.0
0°-180°	2784.0	100.0

**Coefficient of Utilization**



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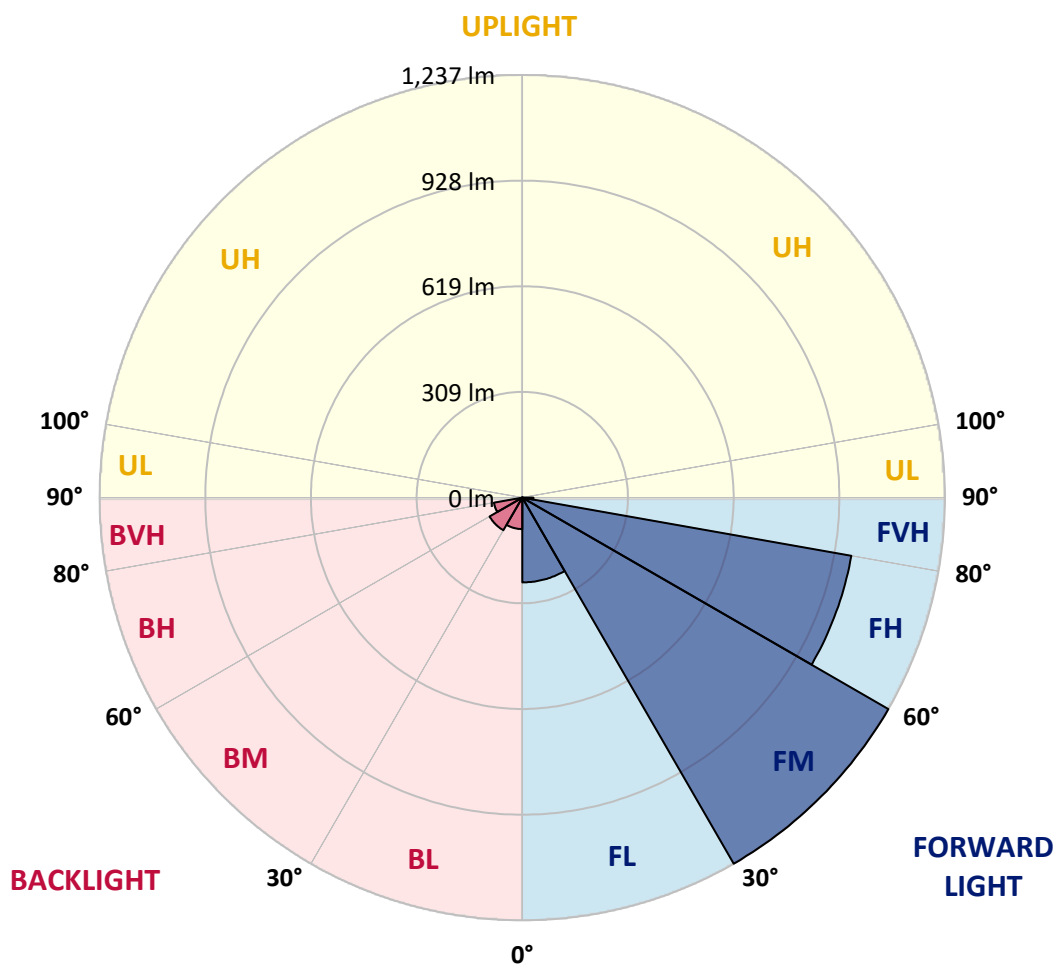
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	248.1	8.9			
FM (30°-60°)	1237.3	44.4			
FH (60°-80°)	978.0	35.1			G1/1800
FVH (80°-90°)	32.8	1.2			G1/100
BL (0°-30°)	92.1	3.3	B0/110		
BM (30°-60°)	110.4	4.0	B0/220		
BH (60°-80°)	84.3	3.0	B0/110		G0/110
BVH (80°-90°)	1.1	0.0			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°	64°	65°	75°	85°
0°	660.2	660.2	660.2	660.2	660.2	660.2	660.2	660.2	660.2	660.2	660.2
2.5°	695.7	696.5	697.4	698.7	699.7	696.9	692.9	688.4	687.5	677.9	666.2
5°	658.5	659.6	667.9	672.4	682.6	691.8	697.6	698.4	698.0	689.0	670.3
7.5°	605.5	608.7	616.8	624.7	643.6	661.1	681.8	696.3	697.2	694.8	671.7
10°	562.4	564.5	568.6	584.2	600.0	626.7	655.7	682.9	685.2	695.0	670.5
12.5°	528.8	531.8	536.8	548.9	567.9	593.1	626.0	662.6	667.3	691.4	667.3
15°	505.2	506.8	511.8	523.7	542.1	565.4	598.7	641.4	645.5	686.7	666.8
17.5°	494.2	495.8	499.4	508.8	524.1	545.7	578.2	624.3	629.5	683.7	668.8
20°	497.2	498.7	498.9	503.7	514.1	532.3	563.2	608.3	615.1	681.8	672.2
22.5°	514.3	514.5	512.2	509.9	513.5	526.7	553.9	598.1	605.1	681.4	676.2
25°	539.8	540.4	536.7	528.8	521.6	528.4	551.9	591.6	597.8	680.5	678.6
27.5°	575.2	575.0	573.9	560.7	540.4	535.9	553.6	588.0	593.2	677.9	679.6
30°	624.7	623.1	620.7	605.8	574.8	554.1	560.7	585.7	590.6	674.1	677.1
32.5°	673.4	679.0	678.6	664.5	625.8	586.7	575.6	588.7	592.3	671.7	673.5
35°	730.1	729.9	744.4	739.2	693.8	628.2	601.0	598.7	601.5	673.4	671.8
37.5°	782.8	787.7	810.2	815.7	774.3	686.9	636.9	620.1	621.1	684.8	676.0
40°	848.4	857.8	891.5	909.7	873.2	773.9	689.9	659.4	659.6	713.0	691.6
42.5°	933.0	947.9	979.3	1009.7	990.2	877.0	769.4	721.7	721.3	762.7	727.3
45°	1035.9	1046.2	1082.0	1130.3	1117.9	1020.8	885.3	818.1	813.2	844.1	790.7
47.5°	1124.6	1138.7	1175.0	1230.1	1286.5	1196.5	1023.7	950.7	947.5	973.6	899.4
50°	1163.4	1175.8	1214.0	1291.2	1427.9	1427.0	1229.7	1144.2	1138.7	1152.8	1067.5
52.5°	1120.9	1132.5	1171.1	1267.4	1494.5	1707.9	1528.3	1386.9	1380.4	1362.3	1268.3
55°	975.3	984.9	1041.9	1152.5	1468.9	1895.2	1939.8	1686.9	1661.3	1591.1	1495.6
57.5°	776.6	771.7	807.0	935.5	1318.9	1958.0	2362.1	2060.5	2014.8	1789.0	1688.0
60°	538.2	553.2	567.5	652.1	991.7	1849.1	2624.8	2530.2	2470.0	1983.6	1872.3
62.5°	395.6	405.6	415.0	454.1	623.5	1476.4	2671.2	3012.7	2959.3	2190.2	2048.1
65°	312.9	313.6	317.4	355.9	410.9	960.1	2448.0	3284.8	3271.0	2389.2	2119.3
66°	285.1	285.2	291.1	332.4	368.7	781.8	2269.2	3305.5	3313.0	2436.9	2098.5
67.5°	249.1	248.4	256.9	298.8	335.8	563.7	1949.2	3221.6	3266.2	2473.6	2023.4
70°	193.1	192.2	202.5	250.6	309.3	376.1	1295.6	2766.2	2838.0	2398.6	1790.3
72.5°	128.6	129.4	147.0	197.8	295.2	331.1	779.4	2104.3	2205.8	1980.8	1408.4
75°	75.0	76.3	96.5	147.0	256.3	315.7	441.1	1500.5	1565.4	1367.8	877.4
77.5°	39.3	39.9	54.0	97.0	196.5	293.1	293.9	958.6	989.1	664.7	347.3
80°	20.9	20.3	29.0	58.5	135.2	257.4	238.4	507.5	527.6	197.4	87.8
82.5°	7.9	8.6	15.4	38.4	79.9	184.8	205.3	224.3	217.4	43.4	36.9
85°	1.5	1.9	6.6	22.8	40.2	77.3	151.4	110.0	101.9	16.4	21.2
87.5°	0.2	0.4	1.9	5.5	5.8	26.1	44.8	30.5	26.3	6.0	8.8
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°	660.2	660.2	660.2	660.2	660.2	660.2	660.2	660.2	660.2	660.2	660.2
2.5°	660.6	655.5	638.6	621.8	604.7	589.3	578.8	561.7	557.3	551.1	547.6
5°	659.2	647.4	614.9	579.3	546.2	510.5	483.2	456.9	442.8	435.7	433.0
7.5°	655.5	636.7	585.9	530.3	477.2	423.8	377.4	342.0	319.3	303.7	293.1
10°	648.0	622.0	552.3	475.7	395.6	325.1	266.3	221.5	186.9	176.0	176.4
12.5°	640.3	605.7	514.7	415.2	315.9	227.0	164.5	129.2	112.6	107.2	106.1
15°	633.1	590.1	477.8	356.5	235.2	147.0	106.1	93.6	89.1	88.2	88.0
17.5°	629.4	575.6	438.5	289.4	164.2	99.8	85.0	81.6	80.3	79.4	79.0
20°	626.2	563.0	400.9	226.6	112.3	81.8	76.2	73.0	70.7	69.8	69.2
22.5°	623.9	550.0	362.0	175.4	85.9	72.6	67.5	63.4	60.2	59.0	58.3
25°	620.5	535.7	322.7	128.2	72.4	64.5	58.7	53.8	49.6	47.6	47.2
27.5°	615.6	519.5	279.6	95.0	64.7	57.4	50.2	44.2	40.1	37.8	38.0
30°	607.7	502.6	236.5	75.4	58.5	50.0	42.3	36.5	32.5	30.8	30.6
32.5°	598.3	482.1	197.1	64.7	52.8	43.4	35.4	30.3	27.3	25.9	25.8
35°	589.5	461.4	156.8	58.1	47.0	37.4	29.7	25.4	23.1	22.0	22.2
37.5°	584.6	443.0	122.2	52.8	42.3	32.2	25.6	21.8	19.7	18.8	18.6
40°	587.8	428.0	97.2	48.1	37.0	27.6	22.0	18.8	16.7	15.4	15.4
42.5°	602.8	421.4	78.4	43.6	32.2	23.9	19.2	16.2	13.9	12.6	12.8
45°	648.7	428.3	65.6	39.5	27.6	20.7	16.5	13.4	11.3	10.3	10.2
47.5°	724.9	454.5	56.8	35.2	23.7	17.7	13.9	11.1	9.0	8.3	8.1
50°	858.0	508.4	50.2	30.8	20.1	15.0	11.5	8.8	7.1	6.4	6.4
52.5°	1041.1	626.2	45.5	25.9	16.9	12.8	9.4	7.1	5.6	5.1	4.9
55°	1232.6	750.3	43.1	21.8	14.1	10.5	7.5	5.6	4.3	3.8	3.6
57.5°	1416.7	847.7	40.2	17.7	11.3	8.1	5.8	4.3	3.0	2.6	2.4
60°	1593.2	926.4	34.2	14.1	8.8	5.8	4.3	3.0	2.1	1.7	1.7
62.5°	1751.2	972.3	26.9	11.3	6.8	4.1	2.8	2.3	1.5	1.1	1.1
65°	1769.6	912.7	20.3	8.6	4.9	2.6	1.7	1.7	1.1	0.8	0.8
66°	1732.5	862.1	17.9	7.9	4.3	2.3	1.5	1.3	0.9	0.6	0.6
67.5°	1649.8	775.8	15.4	6.8	3.6	1.7	1.1	1.1	0.8	0.4	0.4
70°	1425.5	633.7	12.2	5.1	2.6	1.3	0.8	0.8	0.6	0.4	0.4
72.5°	1086.5	473.1	10.0	3.8	1.9	0.9	0.6	0.6	0.6	0.4	0.4
75°	655.3	254.8	7.7	2.8	1.7	0.8	0.4	0.6	0.8	0.6	0.4
77.5°	241.4	86.7	6.0	2.3	1.3	0.8	0.4	0.4	0.8	0.6	0.6
80°	59.2	22.6	4.3	1.9	1.3	0.8	0.4	0.4	0.8	0.8	0.8
82.5°	27.5	9.6	3.0	1.7	1.3	0.8	0.4	0.4	0.6	0.8	0.8
85°	15.8	4.5	2.4	1.9	1.3	0.8	0.4	0.4	0.6	0.8	0.8
87.5°	6.4	2.3	2.3	1.9	1.5	0.9	0.4	0.4	0.4	0.6	0.6
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)