

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: P450370

Luminaire Tested: **GALN-SA1A-830-U-SL2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450370  
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-830-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 3000K, 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: 3009 lumens  
Efficiency: N/A  
Efficacy: 91.2 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

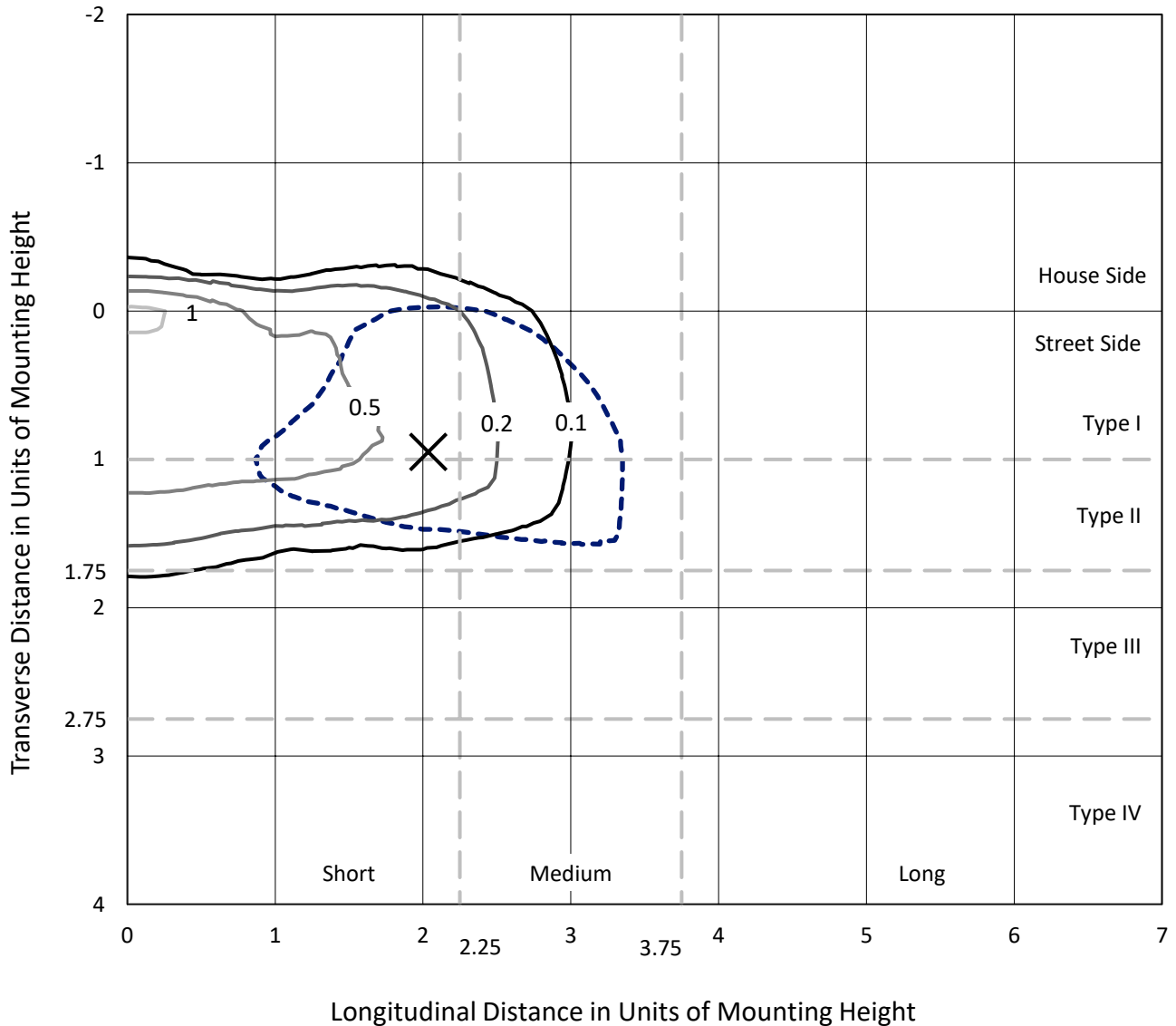
Input Watts (W): 33  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P450370  
 CATALOG NUMBER: GALN-SA1A-830-U-SL2-HSS

### Iso-Footcandle Lines of Horizontal Illumination

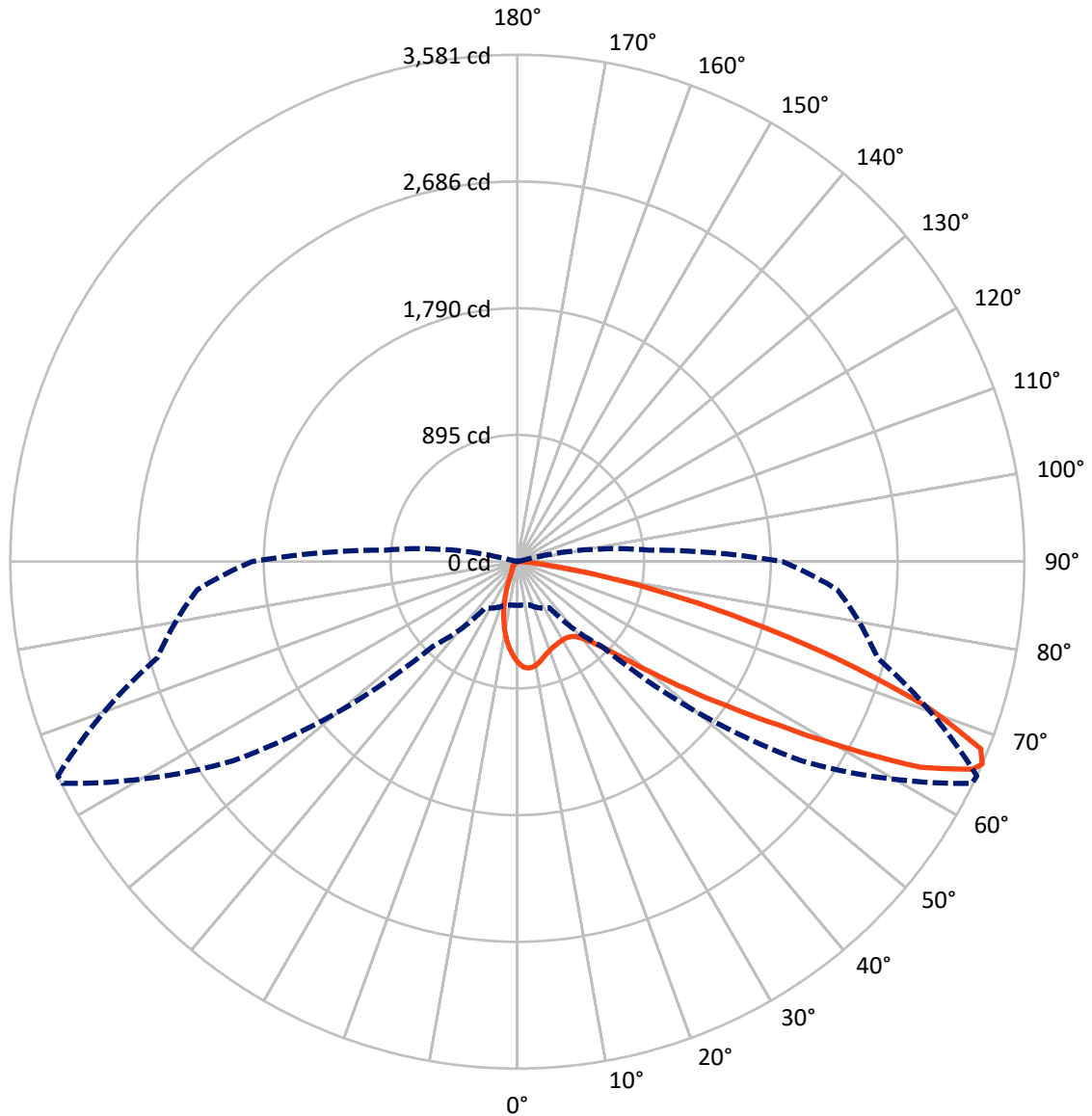
× Max cd  
 - - - 1/2 Max cd



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

REPORT NUMBER: P450370  
CATALOG NUMBER: GALN-SA1A-830-U-SL2-HSS

### 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	311.2	0.0	311.2
	% Fixture	10.3	0.0	10.3
<b>Street Side</b>	Lumens	2697.8	0.0	2697.8
	% Fixture	89.7	0.0	89.7
<b>Total</b>	Lumens	3009.0	0.0	3009.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	58.4	1.9
10°-20°	127.2	4.2
20°-30°	182.1	6.1
30°-40°	266.0	8.8
40°-50°	446.1	14.8
50°-60°	744.5	24.7
60°-70°	790.2	26.3
70°-80°	357.9	11.9
80°-90°	36.6	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°	3009.0	100.0
0°-180°	3009.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P450370

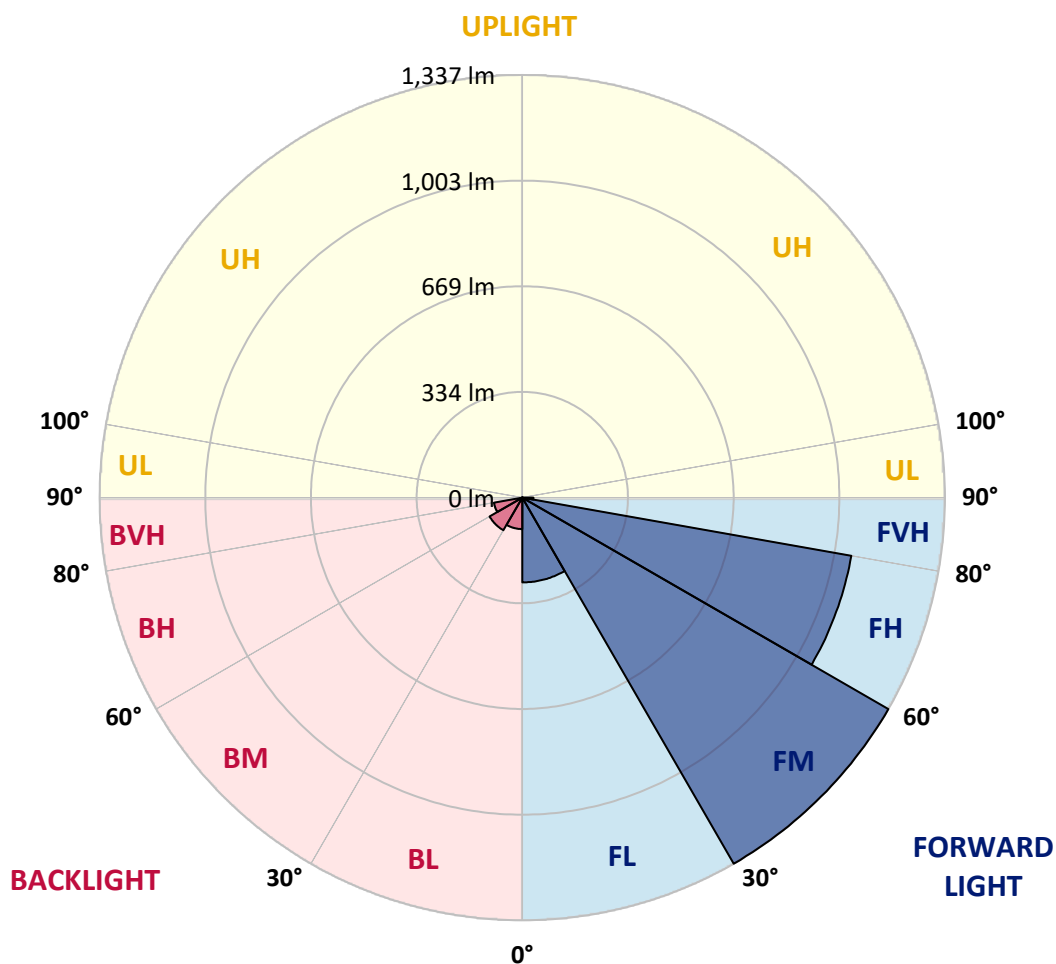
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	268.1	8.9			
FM (30°-60°)	1337.3	44.4			
FH (60°-80°)	1057.0	35.1			G1/1800
FVH (80°-90°)	35.5	1.2			G1/100
BL (0°-30°)	99.5	3.3	B0/110		
BM (30°-60°)	119.3	4.0	B0/220		
BH (60°-80°)	91.1	3.0	B0/110		G0/110
BVH (80°-90°)	1.2	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





REPORT NUMBER: P450370

CATALOG NUMBER: GALN-SA1A-830-U-SL2-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	713.5	713.5	713.5	713.5	713.5	713.5	713.5	713.5	713.5	713.5	713.5
2.5°	752.0	752.8	753.8	755.2	756.2	753.2	748.9	744.0	743.0	732.6	720.0
5°	711.7	712.9	721.9	726.8	737.7	747.7	754.0	754.8	754.4	744.6	724.5
7.5°	654.4	657.9	666.6	675.1	695.7	714.6	736.9	752.6	753.6	750.9	725.9
10°	607.9	610.1	614.6	631.4	648.5	677.4	708.7	738.1	740.6	751.1	724.7
12.5°	571.5	574.7	580.2	593.2	613.8	641.0	676.6	716.2	721.3	747.3	721.3
15°	546.1	547.7	553.2	566.0	585.9	611.1	647.1	693.2	697.7	742.2	720.7
17.5°	534.1	535.9	539.8	549.9	566.4	589.8	624.9	674.7	680.4	738.9	722.9
20°	537.3	539.0	539.2	544.5	555.6	575.3	608.7	657.5	664.8	736.9	726.6
22.5°	555.8	556.0	553.6	551.2	555.0	569.3	598.7	646.5	654.0	736.5	730.8
25°	583.5	584.1	580.0	571.5	563.8	571.1	596.5	639.4	646.1	735.5	733.5
27.5°	621.7	621.5	620.3	606.0	584.1	579.2	598.3	635.5	641.2	732.6	734.5
30°	675.1	673.5	670.9	654.8	621.3	598.9	606.0	633.1	638.3	728.6	731.8
32.5°	727.8	733.9	733.5	718.2	676.4	634.1	622.1	636.3	640.2	725.9	728.0
35°	789.1	788.9	804.6	798.9	749.9	679.0	649.5	647.1	650.1	727.8	726.1
37.5°	846.1	851.3	875.7	881.6	836.9	742.4	688.3	670.3	671.3	740.2	730.6
40°	917.0	927.1	963.5	983.2	943.8	836.5	745.7	712.7	712.9	770.7	747.5
42.5°	1008.4	1024.5	1058.4	1091.4	1070.2	947.9	831.6	780.0	779.6	824.3	786.1
45°	1119.6	1130.8	1169.4	1221.6	1208.2	1103.3	956.8	884.3	879.0	912.3	854.6
47.5°	1215.5	1230.8	1270.0	1329.5	1390.5	1293.2	1106.4	1027.5	1024.1	1052.3	972.1
50°	1257.4	1270.8	1312.1	1395.6	1543.3	1542.3	1329.1	1236.7	1230.8	1246.0	1153.7
52.5°	1211.5	1224.1	1265.7	1369.8	1615.3	1845.9	1651.9	1499.0	1491.9	1472.4	1370.8
55°	1054.2	1064.5	1126.1	1245.6	1587.6	2048.4	2096.5	1823.2	1795.5	1719.7	1616.5
57.5°	839.3	834.1	872.3	1011.1	1425.5	2116.2	2553.0	2227.0	2177.6	1933.5	1824.4
60°	581.6	597.9	613.4	704.8	1071.8	1998.6	2836.9	2734.7	2669.6	2143.9	2023.6
62.5°	427.6	438.4	448.5	490.8	673.9	1595.8	2887.1	3256.2	3198.5	2367.2	2213.6
65°	338.2	339.0	343.1	384.7	444.1	1037.7	2645.9	3550.2	3535.4	2582.3	2290.6
66°	308.1	308.3	314.6	359.3	398.5	845.0	2452.6	3572.6	3580.7	2633.9	2268.1
67.5°	269.3	268.5	277.6	322.9	363.0	609.3	2106.7	3482.0	3530.1	2673.5	2187.0
70°	208.7	207.7	218.9	270.9	334.3	406.5	1400.3	2989.7	3067.4	2592.4	1935.0
72.5°	139.0	139.8	158.9	213.8	319.1	357.9	842.4	2274.4	2384.1	2140.8	1522.2
75°	81.1	82.5	104.3	158.9	277.0	341.2	476.8	1621.8	1691.9	1478.3	948.3
77.5°	42.5	43.1	58.3	104.9	212.4	316.8	317.7	1036.1	1069.0	718.4	375.4
80°	22.6	21.9	31.3	63.2	146.1	278.2	257.7	548.5	570.3	213.4	94.9
82.5°	8.5	9.3	16.7	41.5	86.4	199.8	221.9	242.5	234.9	46.9	39.8
85°	1.6	2.0	7.1	24.6	43.5	83.5	163.6	118.9	110.2	17.7	23.0
87.5°	0.2	0.4	2.0	5.9	6.3	28.2	48.4	32.9	28.5	6.5	9.6
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°	713.5	713.5	713.5	713.5	713.5	713.5	713.5	713.5	713.5	713.5	713.5
2.5°	714.0	708.5	690.2	672.1	653.6	636.9	625.5	607.1	602.4	595.7	591.8
5°	712.5	699.7	664.6	626.2	590.4	551.8	522.3	493.9	478.6	470.9	468.0
7.5°	708.5	688.1	633.3	573.1	515.8	458.1	407.9	369.7	345.1	328.2	316.8
10°	700.3	672.3	596.9	514.2	427.6	351.4	287.8	239.4	202.0	190.2	190.6
12.5°	692.0	654.6	556.2	448.7	341.4	245.3	177.8	139.6	121.7	115.8	114.6
15°	684.3	637.7	516.4	385.3	254.2	158.9	114.6	101.2	96.3	95.3	95.1
17.5°	680.2	622.1	473.9	312.8	177.4	107.9	91.9	88.2	86.8	85.8	85.4
20°	676.8	608.5	433.3	244.9	121.3	88.4	82.3	78.9	76.4	75.4	74.8
22.5°	674.3	594.5	391.2	189.6	92.9	78.4	73.0	68.5	65.0	63.8	63.0
25°	670.7	579.0	348.7	138.6	78.2	69.7	63.4	58.1	53.7	51.4	51.0
27.5°	665.4	561.5	302.2	102.6	69.9	62.0	54.3	47.8	43.3	40.8	41.1
30°	656.8	543.2	255.7	81.5	63.2	54.1	45.7	39.4	35.2	33.3	33.1
32.5°	646.7	521.1	213.0	69.9	57.1	46.9	38.2	32.7	29.5	28.0	27.8
35°	637.1	498.7	169.5	62.8	50.8	40.4	32.1	27.4	25.0	23.8	24.0
37.5°	631.8	478.8	132.1	57.1	45.7	34.8	27.6	23.6	21.3	20.3	20.1
40°	635.3	462.6	105.1	52.0	40.0	29.9	23.8	20.3	18.1	16.7	16.7
42.5°	651.6	455.4	84.7	47.1	34.8	25.8	20.7	17.5	15.0	13.6	13.8
45°	701.1	463.0	70.9	42.7	29.9	22.4	17.9	14.4	12.2	11.2	11.0
47.5°	783.5	491.2	61.4	38.0	25.6	19.1	15.0	12.0	9.8	8.9	8.7
50°	927.3	549.5	54.3	33.3	21.7	16.3	12.4	9.6	7.7	6.9	6.9
52.5°	1125.3	676.8	49.2	28.0	18.3	13.8	10.2	7.7	6.1	5.5	5.3
55°	1332.2	810.9	46.5	23.6	15.2	11.4	8.1	6.1	4.7	4.1	3.9
57.5°	1531.1	916.2	43.5	19.1	12.2	8.7	6.3	4.7	3.3	2.8	2.6
60°	1722.0	1001.3	37.0	15.2	9.6	6.3	4.7	3.3	2.2	1.8	1.8
62.5°	1892.7	1050.9	29.1	12.2	7.3	4.5	3.0	2.4	1.6	1.2	1.2
65°	1912.6	986.5	21.9	9.3	5.3	2.8	1.8	1.8	1.2	0.8	0.8
66°	1872.6	931.8	19.3	8.5	4.7	2.4	1.6	1.4	1.0	0.6	0.6
67.5°	1783.2	838.5	16.7	7.3	3.9	1.8	1.2	1.2	0.8	0.4	0.4
70°	1540.7	684.9	13.2	5.5	2.8	1.4	0.8	0.8	0.6	0.4	0.4
72.5°	1174.3	511.3	10.8	4.1	2.0	1.0	0.6	0.6	0.6	0.4	0.4
75°	708.3	275.4	8.3	3.0	1.8	0.8	0.4	0.6	0.8	0.6	0.4
77.5°	260.9	93.7	6.5	2.4	1.4	0.8	0.4	0.4	0.8	0.6	0.6
80°	64.0	24.4	4.7	2.0	1.4	0.8	0.4	0.4	0.8	0.8	0.8
82.5°	29.7	10.4	3.3	1.8	1.4	0.8	0.4	0.4	0.6	0.8	0.8
85°	17.1	4.9	2.6	2.0	1.4	0.8	0.4	0.4	0.6	0.8	0.8
87.5°	6.9	2.4	2.4	2.0	1.6	1.0	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)