

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: P648206

Luminaire Tested: **GALN-SA1B-835-U-SL2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648206  
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-SA1B-835-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 3500K, 800mA 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: 3689.5 lumens  
Efficiency: N/A  
Efficacy: 83.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

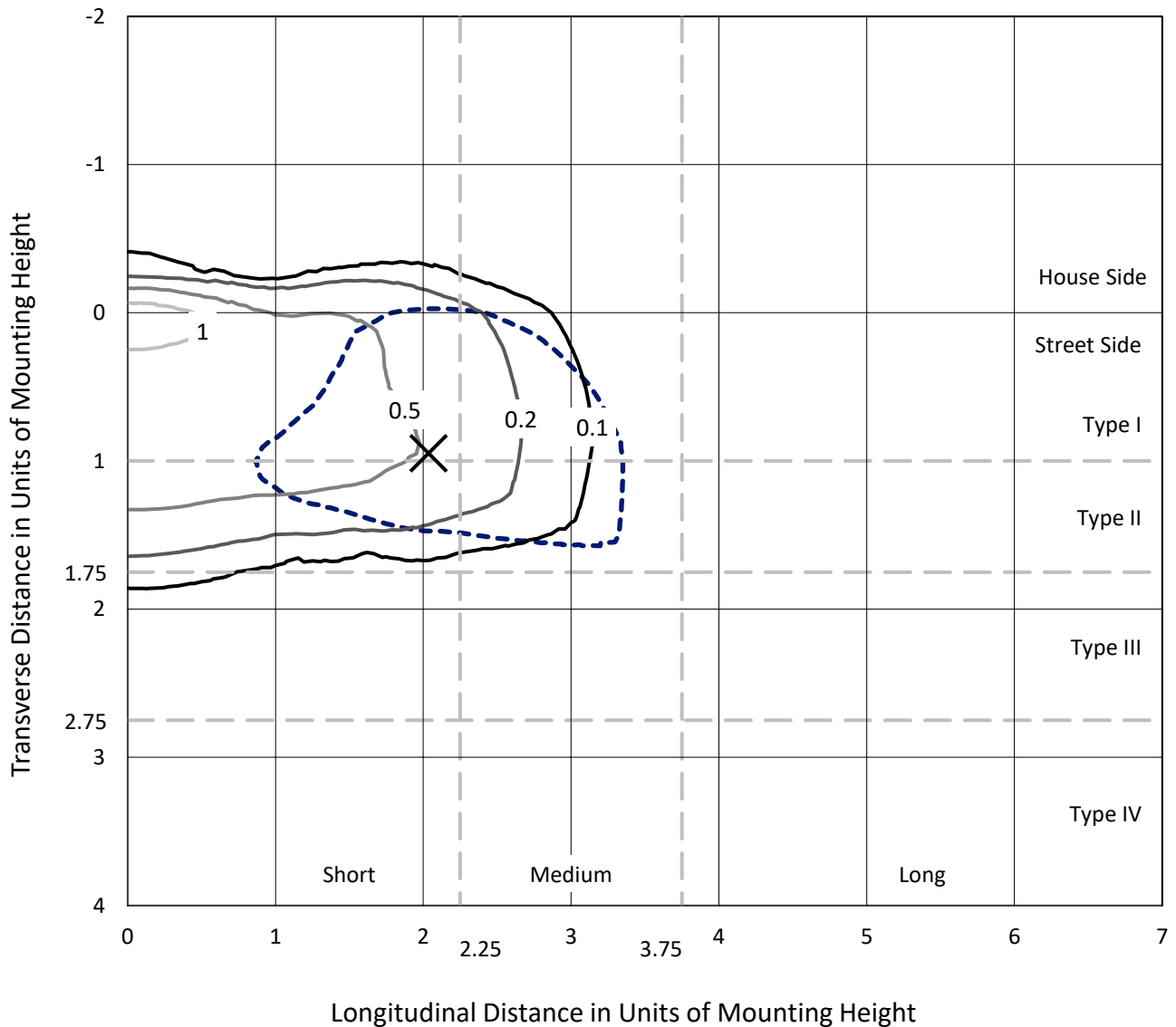
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

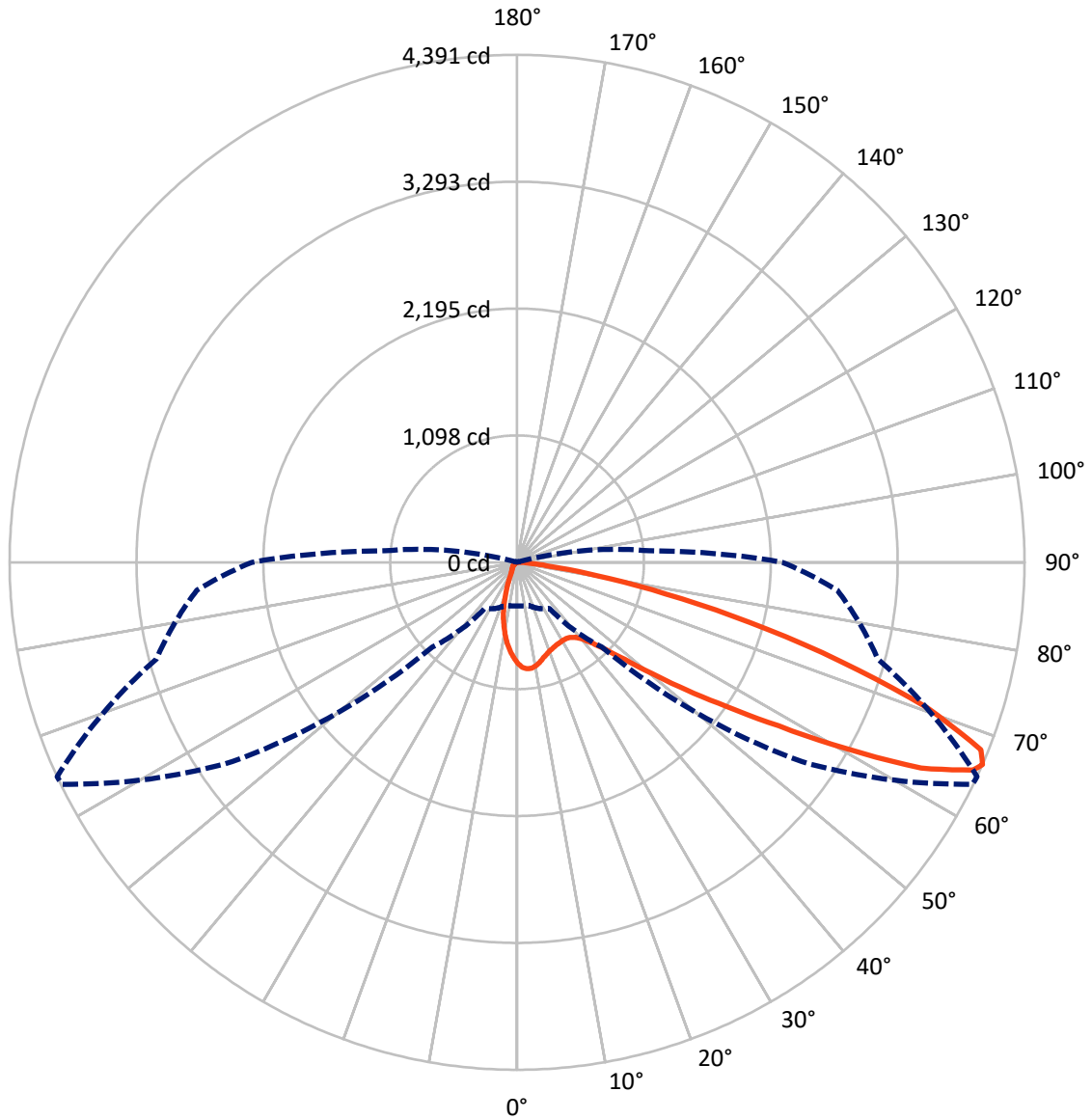
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 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	381.6	0.0	381.6
	% Fixture	10.3	0.0	10.3
<b>Street Side</b>	Lumens	3308.0	0.0	3308.0
	% Fixture	89.7	0.0	89.7
<b>Total</b>	Lumens	3689.5	0.0	3689.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	71.6	1.9
10°-20°	155.9	4.2
20°-30°	223.3	6.1
30°-40°	326.2	8.8
40°-50°	547.0	14.8
50°-60°	912.8	24.7
60°-70°	968.9	26.3
70°-80°	438.8	11.9
80°-90°	44.9	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°	3689.5	100.0
0°-180°	3689.5	100.0

**Coefficient of Utilization**

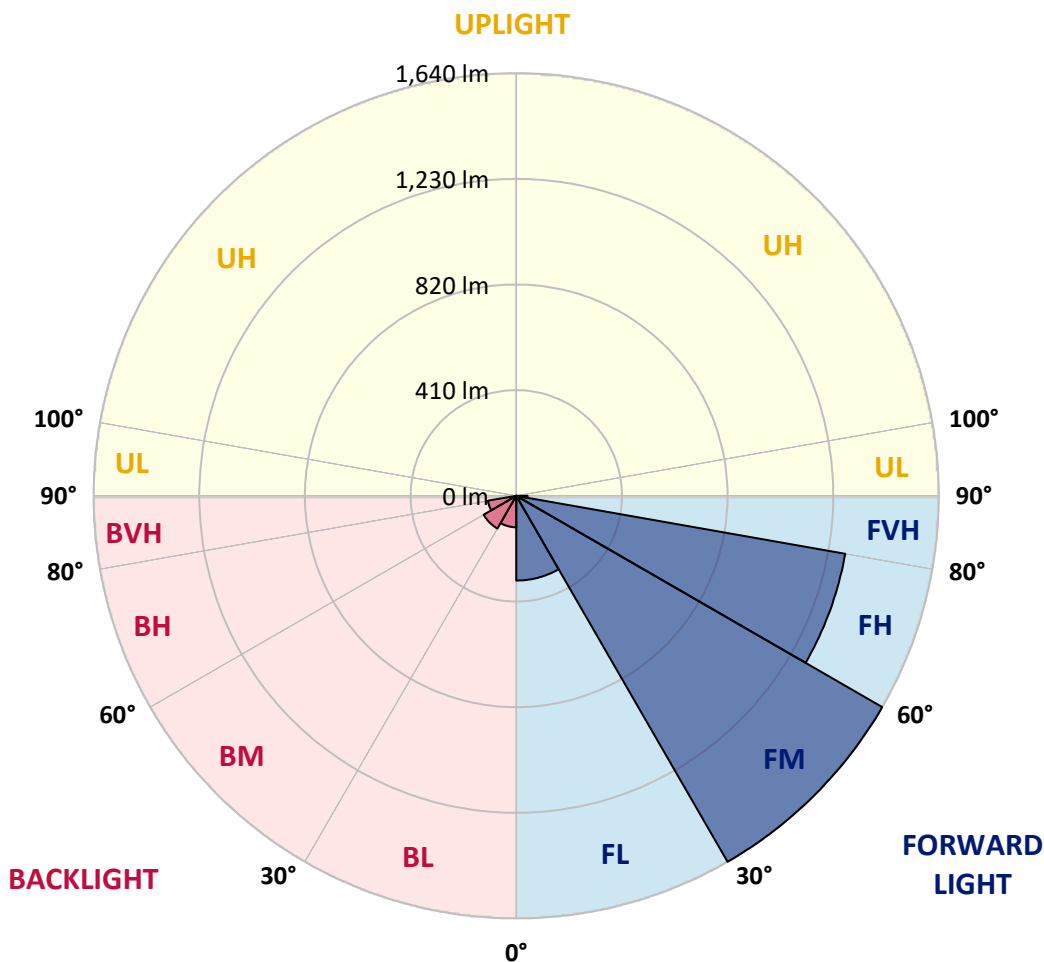


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	328.7	8.9			
FM (30°-60°)	1639.7	44.4			
FH (60°-80°)	1296.0	35.1			G1/1800
FVH (80°-90°)	43.5	1.2			G1/100
BL (0°-30°)	122.1	3.3	B1/500		
BM (30°-60°)	146.3	4.0	B0/220		
BH (60°-80°)	111.7	3.0	B1/500		G1/500
BVH (80°-90°)	1.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	874.9	874.9	874.9	874.9	874.9	874.9	874.9	874.9	874.9	874.9	874.9
2.5°	922.0	923.0	924.3	926.0	927.2	923.5	918.3	912.3	911.0	898.3	882.9
5°	872.7	874.1	885.1	891.1	904.6	916.8	924.5	925.5	925.0	913.1	888.4
7.5°	802.4	806.6	817.4	827.8	853.0	876.2	903.6	922.8	924.0	920.7	890.1
10°	745.3	748.1	753.6	774.2	795.1	830.5	869.0	905.1	908.0	921.0	888.6
12.5°	700.7	704.7	711.4	727.4	752.5	786.0	829.6	878.1	884.4	916.3	884.4
15°	669.5	671.6	678.3	694.0	718.4	749.3	793.4	850.0	855.5	910.1	883.6
17.5°	654.9	657.1	661.9	674.3	694.5	723.2	766.2	827.3	834.3	906.1	886.4
20°	658.9	660.9	661.1	667.6	681.3	705.5	746.4	806.2	815.1	903.6	890.9
22.5°	681.5	681.8	678.8	675.8	680.6	698.0	734.1	792.7	801.9	903.1	896.1
25°	715.4	716.2	711.2	700.7	691.2	700.2	731.4	783.9	792.2	901.9	899.4
27.5°	762.3	762.0	760.5	743.1	716.2	710.2	733.6	779.2	786.2	898.3	900.6
30°	827.8	825.8	822.6	802.9	761.8	734.4	743.1	776.3	782.7	893.3	897.3
32.5°	892.4	899.8	899.4	880.6	829.3	777.5	762.8	780.3	785.0	890.1	892.6
35°	967.6	967.4	986.6	979.6	919.6	832.6	796.4	793.4	797.2	892.4	890.3
37.5°	1037.4	1043.9	1073.8	1081.0	1026.2	910.3	844.0	821.8	823.1	907.6	895.8
40°	1124.4	1136.8	1181.4	1205.6	1157.3	1025.7	914.3	873.9	874.1	944.9	916.5
42.5°	1236.5	1256.2	1297.8	1338.1	1312.2	1162.2	1019.7	956.4	955.9	1010.7	963.9
45°	1372.8	1386.5	1433.8	1497.9	1481.4	1352.9	1173.2	1084.2	1077.7	1118.6	1047.9
47.5°	1490.4	1509.1	1557.2	1630.2	1705.0	1585.6	1356.6	1259.9	1255.7	1290.3	1191.9
50°	1541.7	1558.2	1608.8	1711.2	1892.4	1891.1	1629.7	1516.4	1509.1	1527.8	1414.6
52.5°	1485.4	1500.9	1552.0	1679.5	1980.6	2263.4	2025.5	1838.0	1829.3	1805.4	1680.8
55°	1292.6	1305.3	1380.7	1527.3	1946.7	2511.6	2570.7	2235.5	2201.6	2108.7	1982.1
57.5°	1029.2	1022.7	1069.5	1239.7	1747.8	2594.9	3130.4	2730.6	2670.1	2370.8	2237.0
60°	713.2	733.1	752.1	864.2	1314.3	2450.6	3478.5	3353.1	3273.4	2628.8	2481.2
62.5°	524.3	537.5	550.0	601.8	826.3	1956.6	3540.0	3992.6	3921.8	2902.6	2714.2
65°	414.7	415.6	420.6	471.8	544.5	1272.4	3244.2	4353.2	4334.9	3166.2	2808.6
66°	377.8	378.0	385.8	440.6	488.7	1036.1	3007.3	4380.6	4390.5	3229.6	2781.0
67.5°	330.2	329.2	340.4	396.0	445.1	747.1	2583.1	4269.4	4328.5	3278.1	2681.5
70°	255.9	254.7	268.4	332.1	409.9	498.4	1717.0	3665.8	3761.1	3178.7	2372.6
72.5°	170.5	171.5	194.9	262.1	391.3	438.8	1032.9	2788.7	2923.3	2625.0	1866.4
75°	99.4	101.2	127.9	194.9	339.7	418.4	584.6	1988.6	2074.6	1812.6	1162.8
77.5°	52.1	52.9	71.5	128.6	260.4	388.5	389.5	1270.4	1310.7	880.9	460.2
80°	27.6	26.9	38.4	77.5	179.2	341.2	315.9	672.6	699.2	261.7	116.4
82.5°	10.5	11.4	20.4	50.8	105.9	244.9	272.1	297.3	288.1	57.6	48.9
85°	2.0	2.5	8.7	30.1	53.3	102.4	200.6	145.8	135.1	21.7	28.2
87.5°	0.2	0.5	2.5	7.2	7.8	34.6	59.3	40.4	34.9	8.0	11.7
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°	874.9	874.9	874.9	874.9	874.9	874.9	874.9	874.9	874.9	874.9	874.9
2.5°	875.4	868.7	846.3	824.1	801.4	781.0	767.0	744.3	738.6	730.4	725.7
5°	873.7	857.9	814.9	767.7	723.9	676.6	640.4	605.6	586.9	577.4	573.9
7.5°	868.7	843.8	776.5	702.7	632.4	561.6	500.1	453.3	423.1	402.5	388.5
10°	858.7	824.3	731.9	630.5	524.3	430.9	352.8	293.5	247.7	233.3	233.7
12.5°	848.5	802.7	682.1	550.2	418.7	300.8	218.1	171.2	149.2	142.0	140.5
15°	839.1	782.0	633.2	472.5	311.7	194.9	140.5	124.1	118.2	116.9	116.6
17.5°	834.1	762.8	581.1	383.5	217.5	132.3	112.7	108.1	106.4	105.2	104.7
20°	829.8	746.1	531.3	300.3	148.8	108.4	100.9	96.7	93.7	92.5	91.7
22.5°	826.8	728.9	479.7	232.5	113.8	96.2	89.5	84.0	79.7	78.2	77.3
25°	822.3	709.9	427.6	169.9	95.9	85.5	77.8	71.3	65.8	63.0	62.6
27.5°	815.9	688.5	370.5	125.8	85.7	76.0	66.6	58.6	53.1	50.1	50.3
30°	805.4	666.1	313.5	99.9	77.5	66.3	56.1	48.3	43.1	40.9	40.6
32.5°	792.9	638.9	261.1	85.7	70.0	57.6	46.8	40.1	36.1	34.4	34.1
35°	781.2	611.5	207.8	77.0	62.3	49.6	39.4	33.7	30.6	29.1	29.4
37.5°	774.8	587.1	162.0	70.0	56.1	42.6	33.9	28.9	26.2	24.9	24.7
40°	779.0	567.1	128.8	63.8	49.1	36.6	29.1	24.9	22.2	20.4	20.4
42.5°	798.9	558.4	103.9	57.8	42.6	31.6	25.4	21.5	18.5	16.7	16.9
45°	859.7	567.7	87.0	52.3	36.6	27.4	21.9	17.7	15.0	13.7	13.5
47.5°	960.7	602.3	75.2	46.6	31.4	23.4	18.5	14.7	12.0	11.0	10.7
50°	1137.1	673.8	66.6	40.9	26.7	20.0	15.2	11.7	9.5	8.5	8.5
52.5°	1379.8	829.8	60.3	34.4	22.4	16.9	12.4	9.5	7.4	6.7	6.5
55°	1633.5	994.3	57.1	28.9	18.7	13.9	9.9	7.4	5.7	5.0	4.7
57.5°	1877.4	1123.4	53.3	23.4	15.0	10.7	7.8	5.7	4.0	3.5	3.2
60°	2111.4	1227.7	45.3	18.7	11.7	7.8	5.7	4.0	2.7	2.3	2.3
62.5°	2320.7	1288.6	35.6	15.0	9.0	5.5	3.8	3.0	2.0	1.5	1.5
65°	2345.2	1209.6	26.9	11.4	6.5	3.5	2.3	2.3	1.5	1.0	1.0
66°	2296.1	1142.6	23.6	10.5	5.7	3.0	2.0	1.7	1.3	0.8	0.8
67.5°	2186.4	1028.2	20.4	9.0	4.7	2.3	1.5	1.5	1.0	0.5	0.5
70°	1889.1	839.8	16.2	6.7	3.5	1.7	1.0	1.0	0.8	0.5	0.5
72.5°	1439.9	626.9	13.2	5.0	2.5	1.3	0.8	0.8	0.8	0.5	0.5
75°	868.4	337.6	10.2	3.8	2.3	1.0	0.5	0.8	1.0	0.8	0.5
77.5°	319.9	114.9	8.0	3.0	1.7	1.0	0.5	0.5	1.0	0.8	0.8
80°	78.5	29.9	5.7	2.5	1.7	1.0	0.5	0.5	1.0	1.0	1.0
82.5°	36.4	12.7	4.0	2.3	1.7	1.0	0.5	0.5	0.8	1.0	1.0
85°	20.9	6.0	3.2	2.5	1.7	1.0	0.5	0.5	0.8	1.0	1.0
87.5°	8.5	3.0	3.0	2.5	2.0	1.3	0.5	0.5	0.5	0.8	0.8
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)