

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: P450343

Luminaire Tested: **GALN-SA1A-827-U-SL3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450343  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)  
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-SL3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2814 lumens  
Efficiency: N/A  
Efficacy: 85.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B0 - U0 - G1

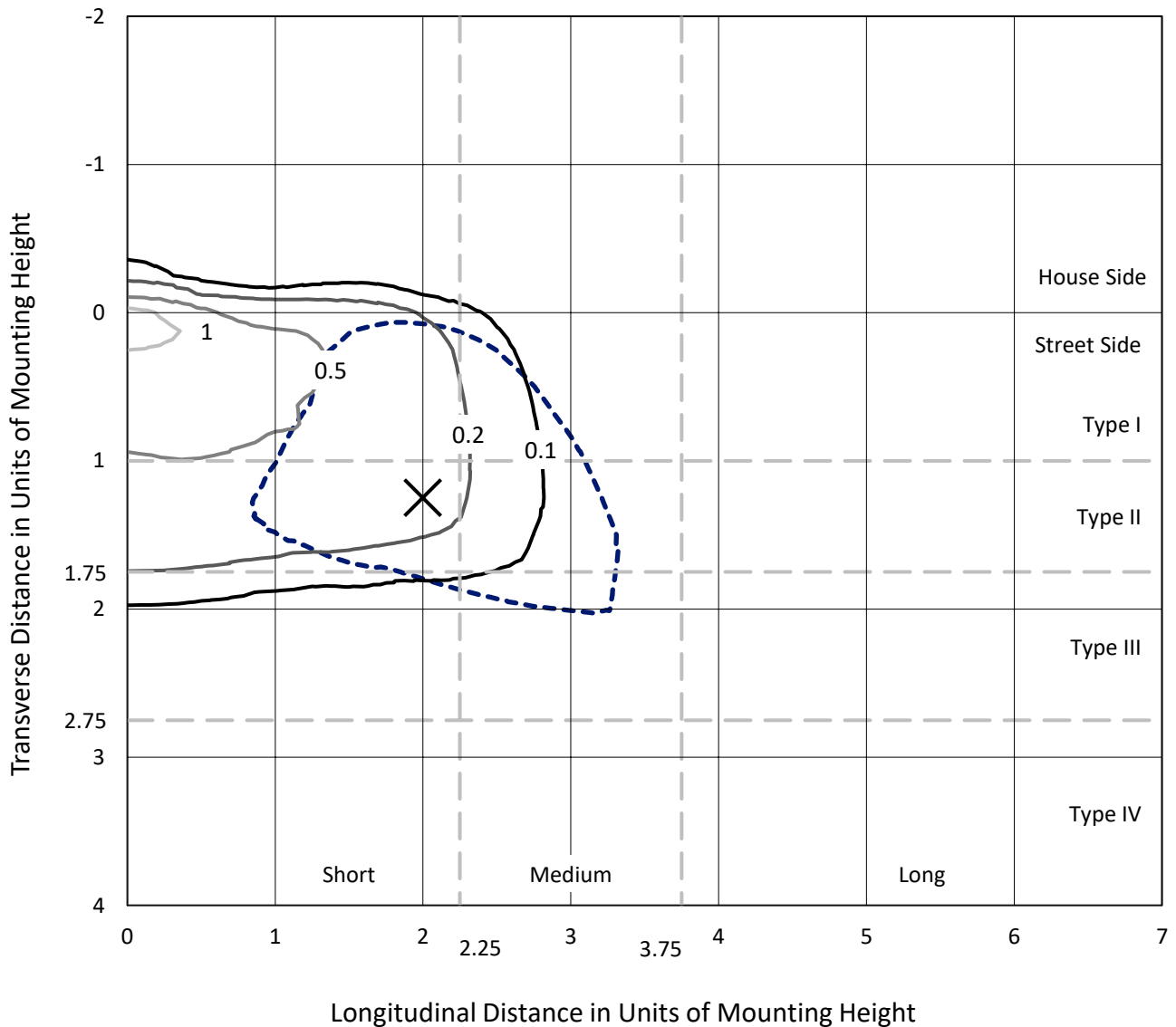
Input Watts (W): 33  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

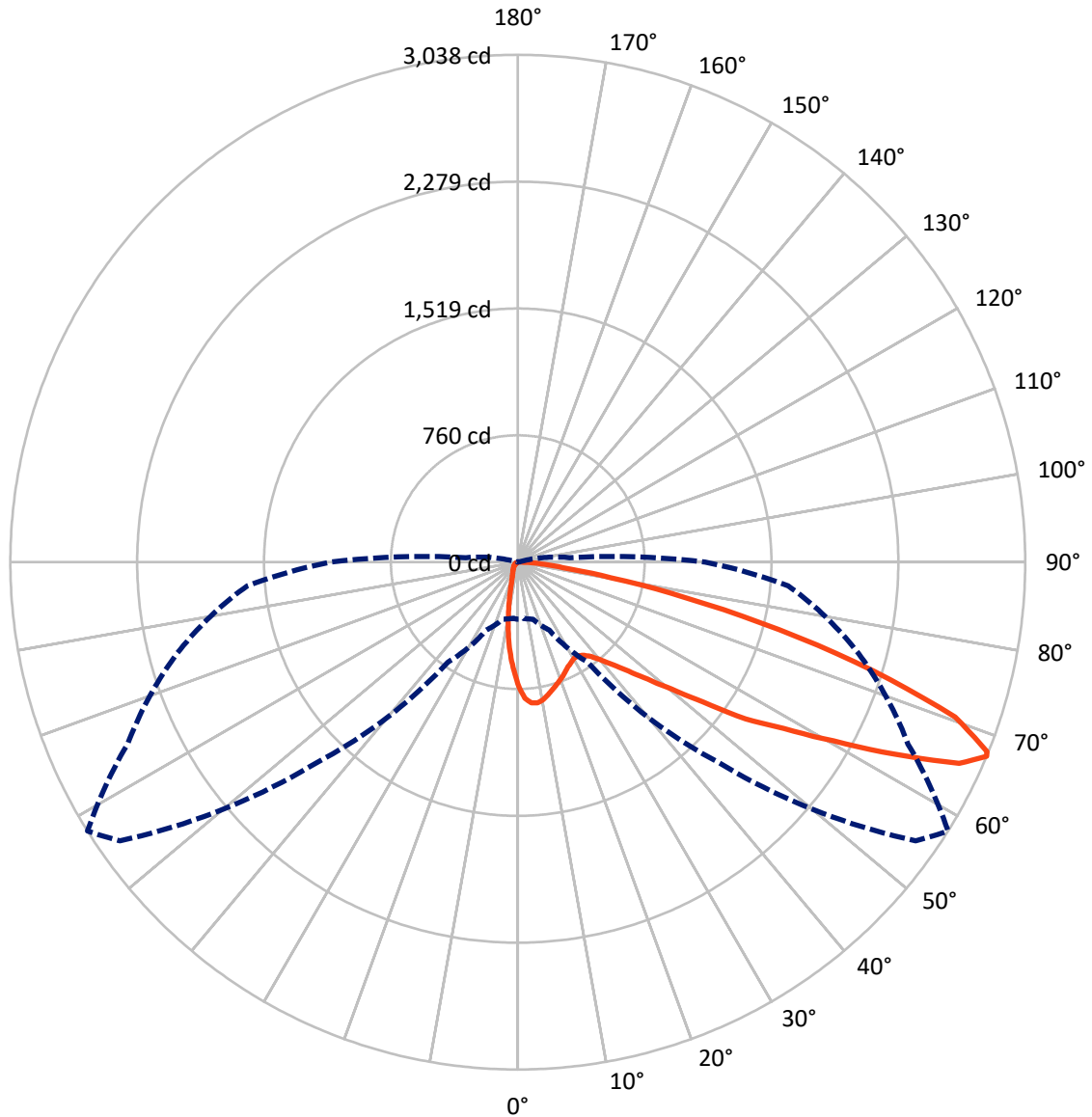
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 67-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	203.1	0.0	203.1
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	2610.9	0.0	2610.9
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	2814.0	0.0	2814.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	60.5	2.2
10°-20°	130.7	4.6
20°-30°	177.2	6.3
30°-40°	245.7	8.7
40°-50°	391.9	13.9
50°-60°	677.4	24.1
60°-70°	773.8	27.5
70°-80°	322.6	11.5
80°-90°	34.2	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°	2814.0	100.0
0°-180°	2814.0	100.0



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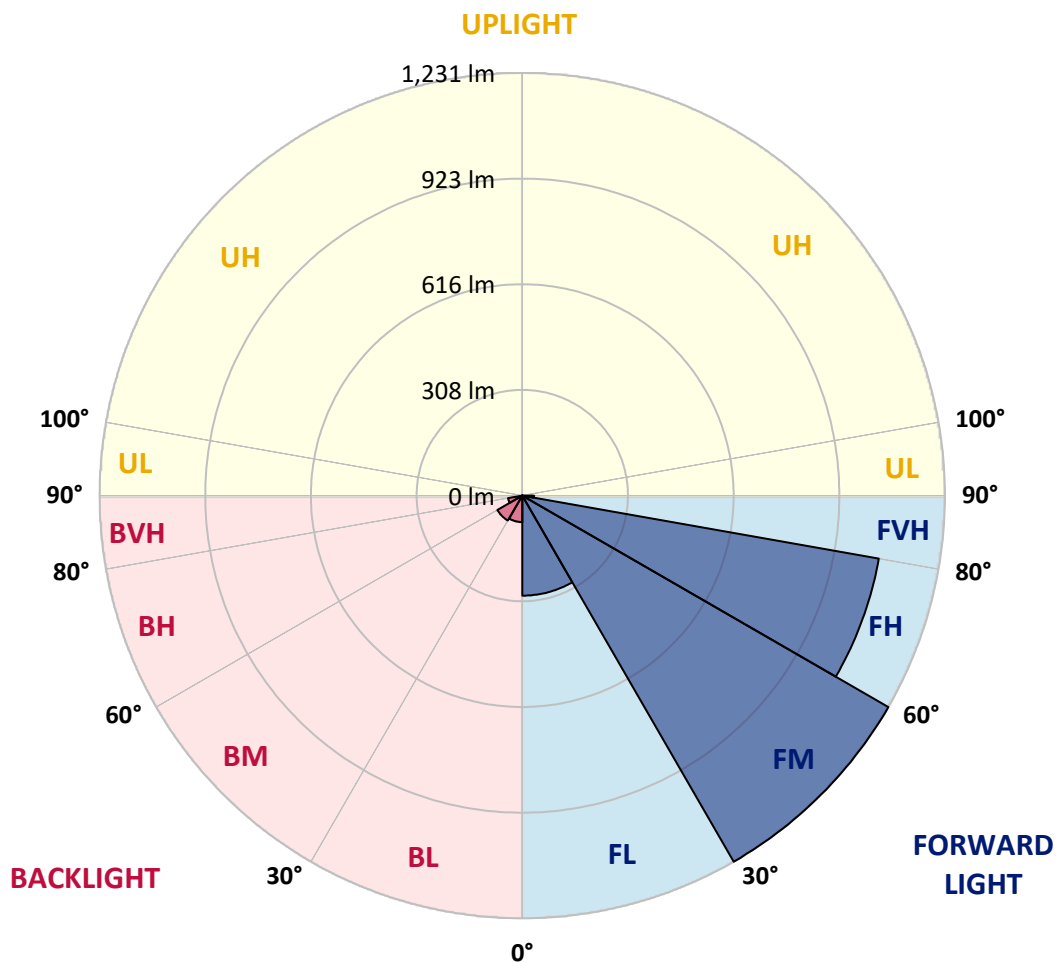
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	291.3	10.4			
FM	(30°-60°)	1231.2	43.8			
FH	(60°-80°)	1054.4	37.5			G1/1800
FVH	(80°-90°)	34.0	1.2			G1/100
BL	(0°-30°)	77.1	2.7	B0/110		
BM	(30°-60°)	83.7	3.0	B0/220		
BH	(60°-80°)	42.0	1.5	B0/110		G0/110
BVH	(80°-90°)	0.2	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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	746.0	746.0	746.0	746.0	746.0	746.0	746.0	746.0	746.0	746.0	746.0
2.5°	865.7	867.1	862.2	858.2	848.1	837.2	822.7	815.0	801.8	779.1	753.9
5°	886.1	887.7	887.0	886.1	882.1	871.6	853.1	846.4	827.0	790.0	744.5
7.5°	840.9	847.1	847.9	855.2	862.2	863.1	856.2	851.1	833.2	789.8	727.7
10°	781.1	785.3	791.3	799.7	816.5	830.4	837.2	836.4	826.1	784.0	708.2
12.5°	720.8	723.0	732.2	746.7	767.2	790.9	809.0	812.5	812.7	777.0	691.8
15°	668.9	667.9	675.1	691.8	720.6	750.3	782.6	788.3	797.3	770.2	676.6
17.5°	624.5	629.4	630.5	648.9	675.4	714.0	755.2	765.1	783.2	764.4	664.0
20°	597.0	599.7	602.1	612.5	636.3	677.0	729.4	743.1	770.0	759.1	649.9
22.5°	588.9	590.6	588.6	591.8	608.7	644.8	701.4	719.6	757.4	754.2	638.4
25°	595.2	596.8	592.0	588.2	594.0	618.7	674.3	696.5	747.3	753.3	629.8
27.5°	610.2	613.4	606.6	599.9	596.5	604.6	653.1	678.8	740.3	757.8	625.8
30°	633.7	635.6	630.5	622.2	614.5	606.4	642.0	666.6	738.4	768.3	625.4
32.5°	659.3	663.2	660.4	655.0	645.0	625.8	645.2	667.0	743.0	783.6	630.1
35°	690.9	695.4	698.0	696.9	684.1	660.2	665.5	683.9	755.0	811.6	642.9
37.5°	721.9	725.8	740.7	745.8	734.5	711.9	705.0	717.2	781.5	848.3	666.0
40°	757.4	762.7	783.6	802.9	797.5	773.8	761.0	771.2	822.1	903.5	709.9
42.5°	791.5	800.9	832.7	866.9	872.0	845.4	837.0	840.4	882.3	983.1	771.0
45°	839.8	848.6	889.6	936.1	960.0	939.3	930.6	930.1	964.8	1095.0	870.1
47.5°	909.6	917.5	965.8	1011.7	1054.2	1057.0	1040.6	1046.3	1068.6	1225.9	991.5
50°	995.1	1013.7	1045.5	1093.3	1150.1	1196.0	1201.0	1193.5	1212.7	1377.4	1137.5
52.5°	1119.4	1126.6	1155.7	1195.0	1261.6	1339.4	1399.8	1389.4	1383.4	1521.8	1284.9
55°	1212.1	1221.7	1267.0	1321.0	1418.6	1521.3	1652.1	1655.7	1579.7	1660.6	1429.1
57.5°	1184.1	1198.8	1267.4	1375.9	1590.5	1778.1	1875.5	1878.0	1761.4	1795.4	1592.0
60°	1040.3	1047.2	1145.6	1290.3	1605.1	2056.4	2192.4	2172.6	1946.2	1946.2	1735.8
62.5°	737.7	748.6	828.3	1041.4	1449.6	2153.1	2571.9	2531.1	2200.9	2090.5	1821.6
65°	471.4	460.9	513.7	657.4	1079.9	2010.4	2902.3	2904.7	2440.4	2148.2	1774.7
67°	341.5	337.3	352.6	449.4	732.2	1689.9	2909.2	3038.0	2578.1	2111.7	1625.1
67.5°	312.3	315.5	326.6	405.4	665.3	1537.8	2877.6	3030.1	2609.1	2089.7	1570.9
70°	236.7	231.3	243.3	286.8	398.8	970.1	2475.4	2779.1	2570.5	1871.4	1255.2
72.5°	174.1	173.6	190.3	234.5	307.1	516.7	1858.2	2228.3	2100.1	1425.0	790.3
75°	117.5	122.8	149.5	195.9	278.3	335.1	1266.8	1616.6	1457.9	809.1	323.1
77.5°	66.9	67.3	96.3	157.4	249.9	269.7	750.7	1029.9	771.7	269.1	95.9
80°	29.0	31.8	47.8	114.3	207.2	238.8	430.4	566.0	312.2	57.0	31.0
82.5°	10.7	12.6	21.1	70.3	151.2	196.7	260.1	270.2	105.9	20.1	19.4
85°	0.0	0.4	7.7	32.9	78.8	87.8	173.8	160.2	46.8	9.6	12.6
87.5°	0.0	0.0	0.0	3.4	10.3	32.7	54.0	60.2	11.3	3.4	3.0
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°	746.0	746.0	746.0	746.0	746.0	746.0	746.0	746.0	746.0	746.0	746.0
2.5°	740.3	728.1	697.5	666.8	644.0	625.1	596.5	580.9	572.6	560.4	561.1
5°	721.7	696.9	642.9	587.1	541.9	497.9	445.3	424.0	406.2	396.0	389.2
7.5°	694.1	657.4	577.5	503.0	433.6	356.7	299.0	260.4	234.5	224.9	215.7
10°	663.8	615.1	511.1	407.9	311.6	232.2	183.3	148.0	135.4	123.7	124.9
12.5°	635.8	576.5	450.2	321.9	218.3	147.6	115.1	100.6	96.5	95.1	95.1
15°	612.8	539.7	384.7	242.0	149.7	106.1	92.1	88.2	86.7	86.3	86.3
17.5°	588.4	504.7	325.7	178.8	108.9	88.8	84.1	81.4	80.9	80.5	80.5
20°	566.6	469.5	269.7	133.1	88.0	79.9	76.9	75.2	74.7	74.3	74.5
22.5°	545.9	438.3	217.0	100.6	77.5	72.8	69.8	68.1	66.9	66.0	66.2
25°	527.5	408.2	174.5	82.4	69.8	65.6	62.6	60.2	57.7	56.6	56.4
27.5°	514.5	381.9	136.0	70.5	62.8	58.3	54.5	51.5	48.3	46.6	46.3
30°	503.8	355.2	107.6	62.2	55.8	51.5	46.8	42.5	39.1	37.4	36.7
32.5°	496.8	329.8	84.8	55.5	50.0	44.8	39.5	35.2	31.4	29.7	29.3
35°	495.7	308.6	69.4	49.8	44.8	39.1	33.7	29.0	25.8	24.1	23.7
37.5°	503.8	292.2	58.1	45.3	40.4	34.2	28.2	23.9	21.1	19.7	19.6
40°	525.4	281.9	50.4	41.6	36.5	29.7	24.1	20.3	17.5	16.2	16.2
42.5°	566.6	282.3	45.3	38.0	32.5	25.4	20.5	16.9	14.5	13.4	13.0
45°	630.9	295.0	41.0	34.4	28.8	22.0	17.5	13.9	11.5	10.5	10.5
47.5°	717.0	320.4	37.2	30.8	25.4	18.8	14.9	11.3	9.2	8.3	8.3
50°	829.6	361.2	34.0	27.8	22.6	16.2	12.0	9.2	7.1	6.4	6.2
52.5°	947.4	411.6	30.3	25.2	19.4	13.7	9.8	7.1	5.5	4.9	4.7
55°	1077.3	460.9	26.7	22.6	15.8	11.5	7.7	5.6	3.9	3.4	3.4
57.5°	1208.4	509.2	22.4	18.8	12.4	8.5	6.0	4.1	2.6	2.1	2.1
60°	1319.3	524.8	19.0	15.2	9.4	6.0	4.3	2.6	1.5	0.9	0.9
62.5°	1334.5	472.2	16.0	11.7	6.8	4.1	2.3	1.5	0.6	0.4	0.4
65°	1251.8	383.6	13.4	8.8	4.5	2.1	0.9	0.6	0.2	0.0	0.0
67°	1121.7	311.0	10.9	6.6	3.2	1.3	0.6	0.2	0.0	0.0	0.0
67.5°	1088.4	296.5	10.5	6.2	2.8	1.1	0.4	0.2	0.0	0.0	0.0
70°	854.1	222.1	7.5	3.8	1.7	0.8	0.0	0.0	0.0	0.0	0.0
72.5°	530.8	125.6	5.5	2.3	1.1	0.4	0.0	0.0	0.0	0.0	0.0
75°	200.6	44.0	3.8	1.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	62.4	16.7	2.3	1.1	0.4	0.0	0.0	0.0	0.0	0.0	0.0
80°	21.1	6.4	1.5	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	13.0	2.6	0.9	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	8.1	1.1	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.5	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)