

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: P458536

Luminaire Tested: **GALN-SA1A-735-U-T3R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458536  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1A-735-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3500K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3375 lumens  
Efficiency: N/A  
Efficacy: 102.3 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

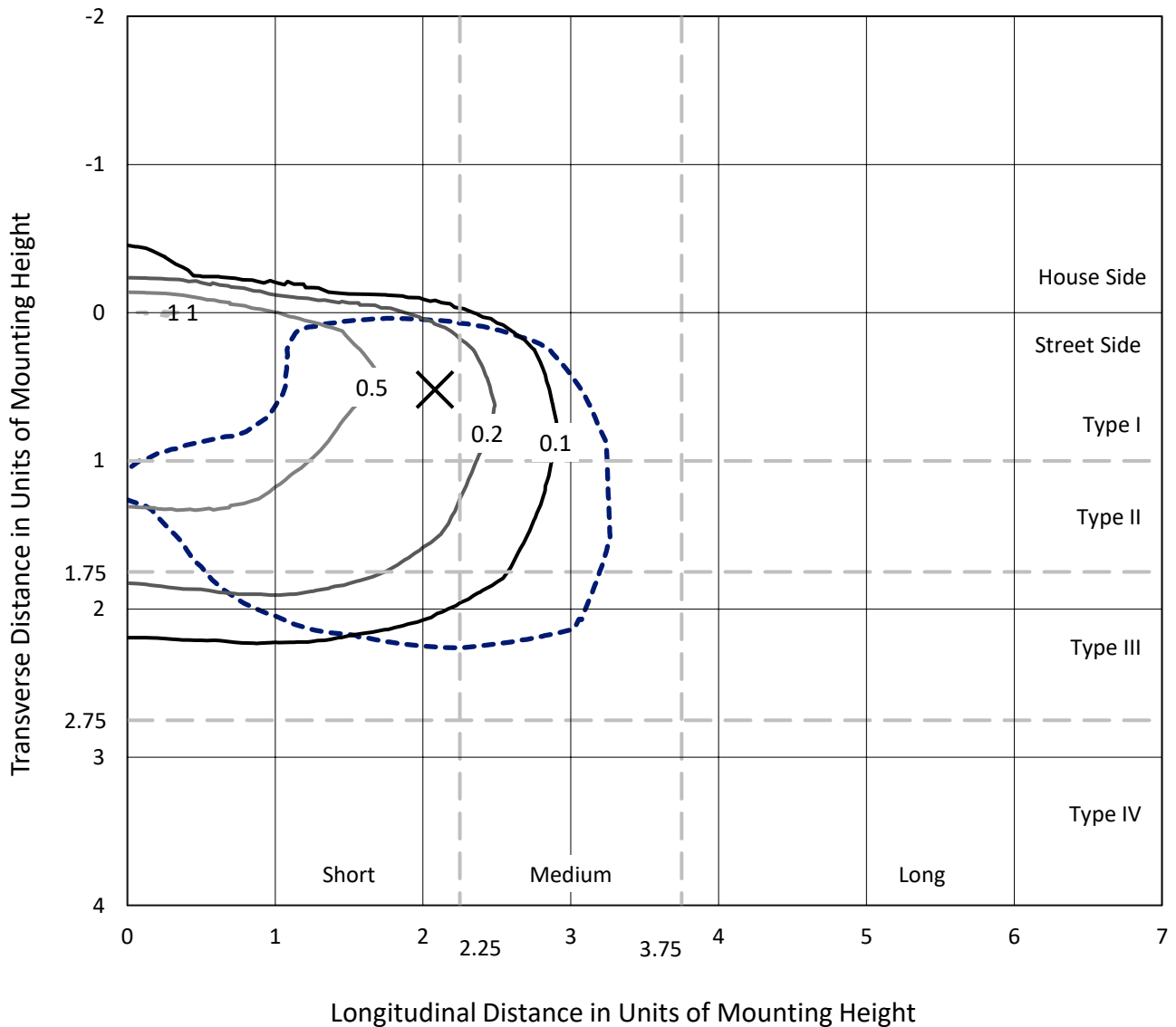
Input Watts (W): 33  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P458536  
 CATALOG NUMBER: GALN-SA1A-735-U-T3R-HSS

### Iso-Footcandle Lines of Horizontal Illumination

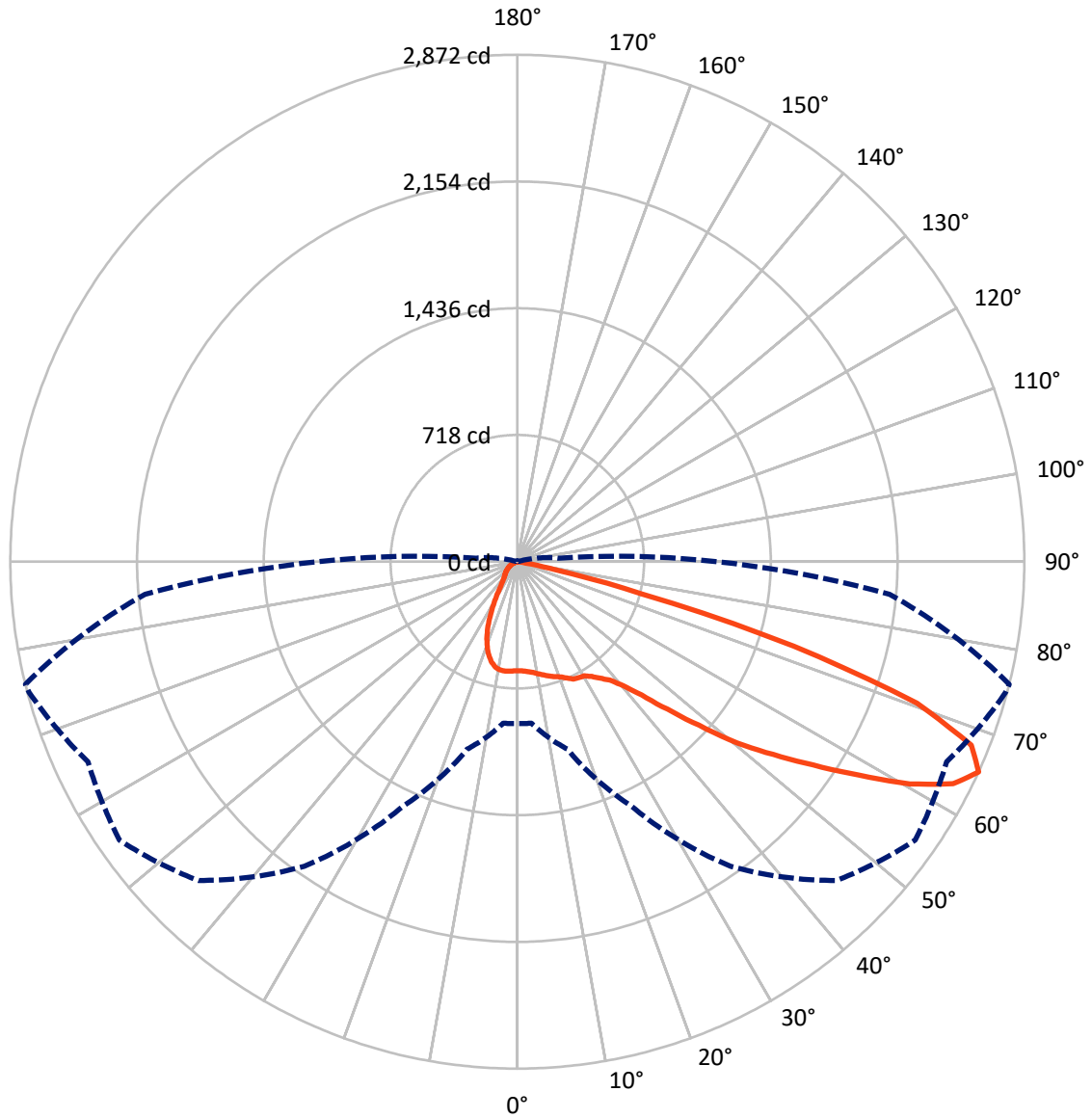
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc  
 Type III - Short - N/A

REPORT NUMBER: P458536  
CATALOG NUMBER: GALN-SA1A-735-U-T3R-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P458536

CATALOG NUMBER: GALN-SA1A-735-U-T3R-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	243.7	0.0	243.7
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	3131.3	0.0	3131.3
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	3375.0	0.0	3375.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	50.9	1.5
10°-20°	113.2	3.4
20°-30°	182.5	5.4
30°-40°	317.3	9.4
40°-50°	524.3	15.5
50°-60°	809.9	24.0
60°-70°	989.0	29.3
70°-80°	375.4	11.1
80°-90°	12.5	0.4
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°	3375.0	100.0
0°-180°	3375.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P458536

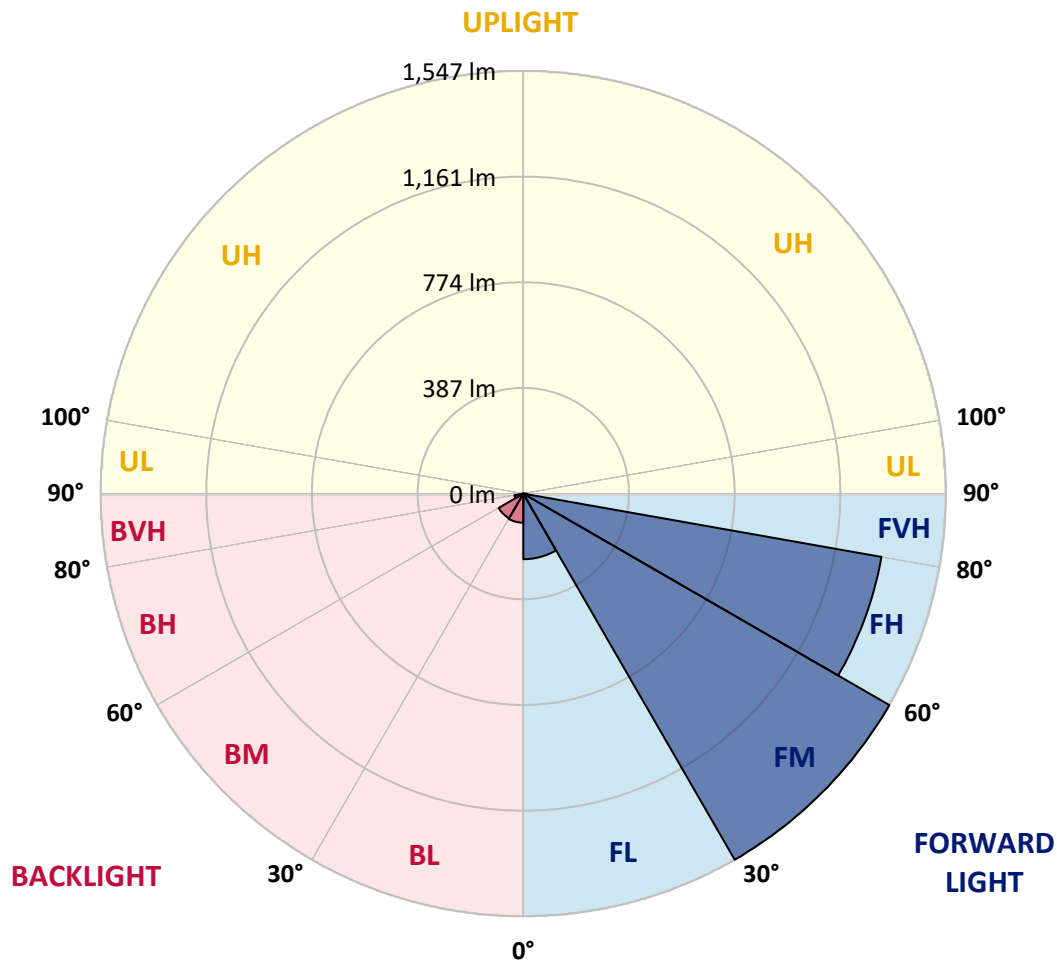
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	240.1	7.1			
FM (30°-60°)	1547.5	45.9			
FH (60°-80°)	1331.3	39.4			G1/1800
FVH (80°-90°)	12.4	0.4			G1/100
BL (0°-30°)	106.5	3.2	B0/110		
BM (30°-60°)	104.0	3.1	B0/220		
BH (60°-80°)	33.1	1.0	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





REPORT NUMBER: P458536

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	617.4	617.4	617.4	617.4	617.4	617.4	617.4	617.4	617.4	617.4	617.4
2.5°	590.0	590.2	591.7	595.2	600.7	605.2	609.1	615.3	619.5	620.0	621.4
5°	549.2	546.4	549.2	558.5	566.9	579.5	595.0	610.5	624.3	625.3	631.9
7.5°	503.5	505.9	510.4	519.9	535.7	555.0	577.4	605.0	631.2	633.6	646.7
10°	457.0	462.3	469.7	484.2	506.1	531.1	561.6	601.2	642.2	645.5	668.1
12.5°	414.1	416.5	425.6	445.1	472.3	507.5	549.7	599.0	654.3	658.4	691.0
15°	381.3	384.4	392.2	409.8	440.1	485.4	540.0	598.3	666.2	672.0	713.9
17.5°	375.1	377.0	380.3	392.2	418.7	467.8	531.1	598.1	677.7	684.6	735.1
20°	400.6	398.9	395.6	394.4	408.9	454.2	524.7	600.0	688.6	696.5	757.5
22.5°	464.4	466.6	447.0	423.9	419.1	452.0	523.7	609.1	706.0	715.3	782.5
25°	600.0	583.6	553.1	497.8	456.1	465.1	534.5	630.5	726.3	736.5	805.2
27.5°	749.9	744.9	697.5	606.4	528.8	492.8	553.5	646.9	733.0	743.4	818.0
30°	897.1	903.1	848.8	748.2	634.3	544.0	571.4	653.1	738.9	749.9	834.5
32.5°	1033.7	1040.8	993.2	893.6	758.7	632.6	602.1	677.2	763.9	775.1	861.9
35°	1141.1	1142.1	1106.1	1026.8	894.5	740.4	668.6	719.4	797.8	810.9	890.9
37.5°	1239.8	1238.4	1196.2	1127.8	1007.7	847.3	752.3	768.0	836.4	850.0	932.9
40°	1312.9	1313.9	1300.3	1236.0	1113.3	946.2	818.5	813.5	901.2	922.4	993.9
42.5°	1361.8	1370.6	1377.3	1344.6	1246.0	1068.0	920.3	911.0	1013.7	1031.3	1080.1
45°	1401.4	1417.1	1450.4	1448.8	1373.5	1217.4	1059.9	1040.8	1173.1	1191.9	1190.0
47.5°	1430.2	1446.1	1501.4	1534.8	1493.3	1362.3	1235.5	1219.1	1363.5	1384.0	1311.3
50°	1445.0	1464.0	1534.6	1599.1	1587.0	1501.9	1435.7	1436.6	1593.4	1613.2	1451.9
52.5°	1410.4	1435.2	1552.2	1668.5	1692.1	1635.6	1623.2	1654.6	1798.1	1815.0	1578.9
55°	1300.1	1331.3	1528.1	1727.6	1813.8	1793.3	1836.2	1884.1	2021.8	2032.8	1709.2
57.5°	1230.3	1263.4	1457.1	1777.8	1960.1	1991.6	2059.5	2094.5	2252.7	2280.6	1858.9
60°	1171.4	1197.4	1398.7	1788.6	2108.8	2234.2	2300.2	2336.4	2537.7	2555.8	2023.5
62.5°	1073.5	1103.3	1300.1	1713.7	2183.6	2428.4	2565.1	2548.9	2758.1	2770.8	2124.5
65°	916.0	918.6	1099.9	1525.7	2106.4	2554.4	2751.2	2683.3	2863.5	2872.0	2116.7
67.5°	683.6	708.9	846.1	1199.3	1779.3	2446.7	2811.5	2686.9	2797.0	2773.2	1948.7
70°	440.3	459.7	573.6	831.6	1282.9	2041.9	2611.6	2502.7	2454.8	2401.9	1595.1
72.5°	203.3	228.0	340.7	475.1	760.8	1454.5	2120.0	2033.3	1766.9	1636.3	1013.9
75°	88.6	94.8	168.2	250.7	356.7	769.2	1397.8	1262.2	798.0	728.9	405.8
77.5°	54.1	58.1	88.2	134.4	140.1	293.1	753.0	550.7	246.6	217.6	110.1
80°	36.7	41.2	64.1	70.3	47.9	81.7	282.6	147.0	49.8	47.7	23.6
82.5°	17.9	22.6	47.4	39.3	20.7	26.2	82.2	31.5	14.5	13.6	8.3
85°	2.6	4.5	26.7	25.7	9.3	6.2	14.5	7.9	5.0	4.8	3.8
87.5°	0.0	0.0	9.1	4.1	1.0	1.0	1.7	1.7	1.9	1.7	1.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P458536

CATALOG NUMBER: GALN-SA1A-735-U-T3R-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	617.4	617.4	617.4	617.4	617.4	617.4	617.4	617.4	617.4	617.4	617.4
2.5°	622.2	623.4	618.8	612.4	605.5	598.6	588.8	580.0	574.7	577.8	570.2
5°	633.4	632.4	620.5	601.0	575.0	543.8	512.8	486.3	477.8	464.9	463.5
7.5°	648.8	646.2	621.0	576.2	517.6	458.9	401.7	363.9	342.2	323.8	324.3
10°	670.5	662.9	615.5	532.6	436.1	347.7	274.7	224.7	203.0	196.1	190.6
12.5°	692.9	678.2	600.2	473.7	339.6	237.6	167.0	136.5	123.2	118.9	118.4
15°	712.9	689.6	573.6	402.9	246.9	151.8	113.9	103.9	102.2	102.5	102.2
17.5°	732.7	698.7	536.6	327.9	167.8	108.9	97.9	95.6	96.3	97.2	97.0
20°	749.2	700.6	489.4	250.2	118.7	95.6	92.0	91.5	92.2	92.9	92.9
22.5°	767.0	702.0	433.4	173.2	97.0	88.9	87.0	87.0	87.9	88.9	89.1
25°	780.4	694.1	366.5	124.4	85.5	82.4	81.5	81.7	82.7	83.2	82.9
27.5°	782.5	672.0	295.5	95.3	77.7	74.6	73.6	74.6	73.4	74.1	73.6
30°	784.4	643.8	223.5	80.3	70.5	65.8	64.3	62.9	62.0	60.8	60.5
32.5°	790.4	610.7	163.2	72.2	63.9	58.6	55.3	51.2	48.1	47.2	46.9
35°	793.0	570.9	119.9	65.8	57.9	52.2	46.2	40.5	36.0	34.3	35.5
37.5°	803.0	532.3	92.9	61.0	52.7	45.5	37.9	30.7	26.4	25.5	26.0
40°	823.5	490.4	77.9	57.0	48.1	39.3	30.0	23.1	20.3	19.3	19.1
42.5°	856.4	448.7	69.3	53.1	43.6	33.1	23.6	18.1	15.7	15.0	15.0
45°	896.4	408.7	63.4	49.1	38.8	26.7	18.6	14.5	13.1	12.6	12.6
47.5°	949.1	373.6	58.4	45.0	33.6	21.2	15.0	12.6	11.7	11.9	12.2
50°	1002.5	347.7	52.9	40.5	27.6	17.4	12.9	11.2	11.0	11.2	11.2
52.5°	1042.7	332.4	45.5	34.3	21.7	14.5	11.4	10.5	10.2	9.8	9.8
55°	1097.1	329.1	36.2	27.9	17.2	12.2	10.2	9.5	8.8	8.3	8.1
57.5°	1166.9	332.9	27.9	21.7	13.3	10.0	9.1	7.9	6.9	6.0	6.0
60°	1210.2	324.3	21.7	16.7	9.8	8.1	6.9	5.7	4.5	3.8	3.6
62.5°	1196.4	288.1	17.2	12.4	6.9	6.0	4.5	3.8	2.6	1.9	1.7
65°	1125.2	232.6	13.8	8.6	5.0	3.6	2.4	2.4	1.2	0.2	0.0
67.5°	984.8	172.3	11.0	5.7	2.9	1.7	1.2	0.7	0.0	0.0	0.0
70°	801.6	124.4	8.6	3.6	1.7	1.2	0.5	0.2	0.0	0.0	0.0
72.5°	509.0	71.2	6.7	2.1	1.2	0.5	0.0	0.0	0.0	0.0	0.0
75°	196.8	27.9	4.5	1.4	0.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	55.8	13.1	2.6	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	14.5	5.7	1.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	6.9	2.4	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.1	1.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.9	0.2	0.0	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)