

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: P647736

Luminaire Tested: **GALN-SA1A-835-U-T3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647736  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA1A-835-U-T3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 3500K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS  
WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2163.4 lumens  
Efficiency: N/A  
Efficacy: 65.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0

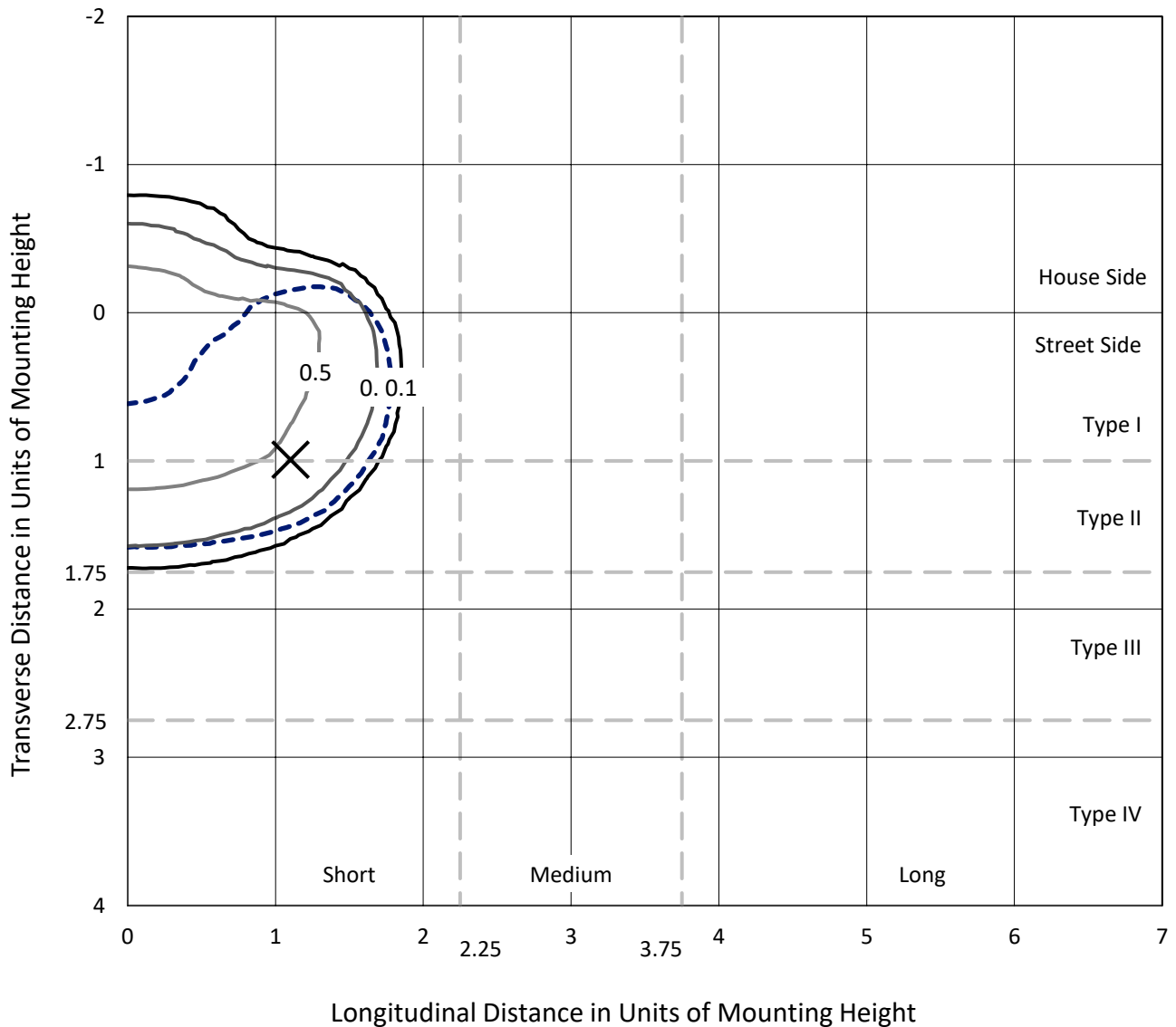
Input Watts (W): 33  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

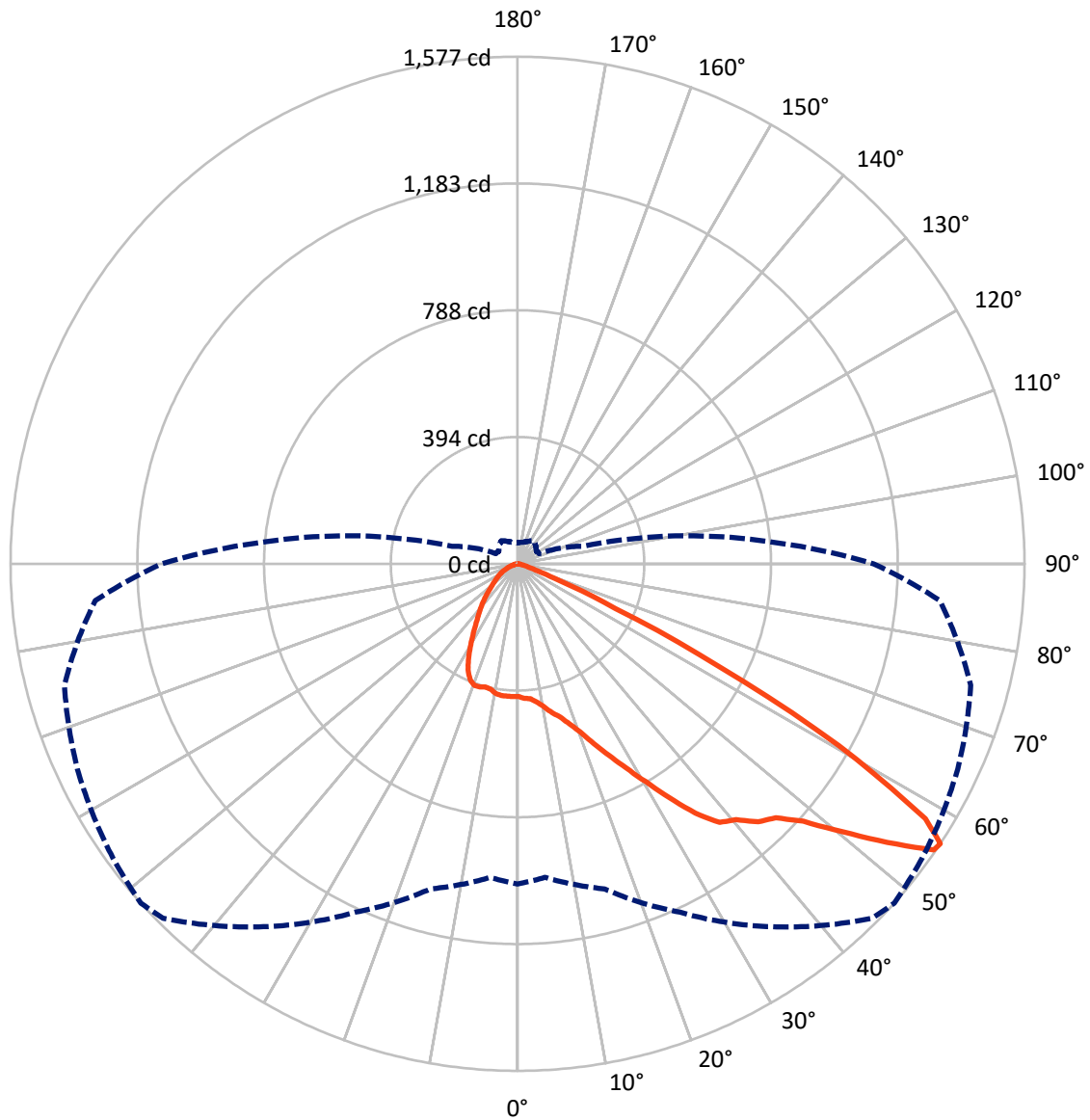
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral    - - - Horizontal Cone Through 56-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	470.5	0.0	470.5
	% Fixture	21.7	0.0	21.7
<b>Street Side</b>	Lumens	1692.9	0.0	1692.9
	% Fixture	78.3	0.0	78.3
<b>Total</b>	Lumens	2163.4	0.0	2163.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	40.3	1.9
10°-20°	128.6	5.9
20°-30°	233.3	10.8
30°-40°	366.5	16.9
40°-50°	534.7	24.7
50°-60°	644.2	29.8
60°-70°	188.6	8.7
70°-80°	23.9	1.1
80°-90°	3.4	0.2
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°	2163.4	100.0
0°-180°	2163.4	100.0

**Coefficient of Utilization**

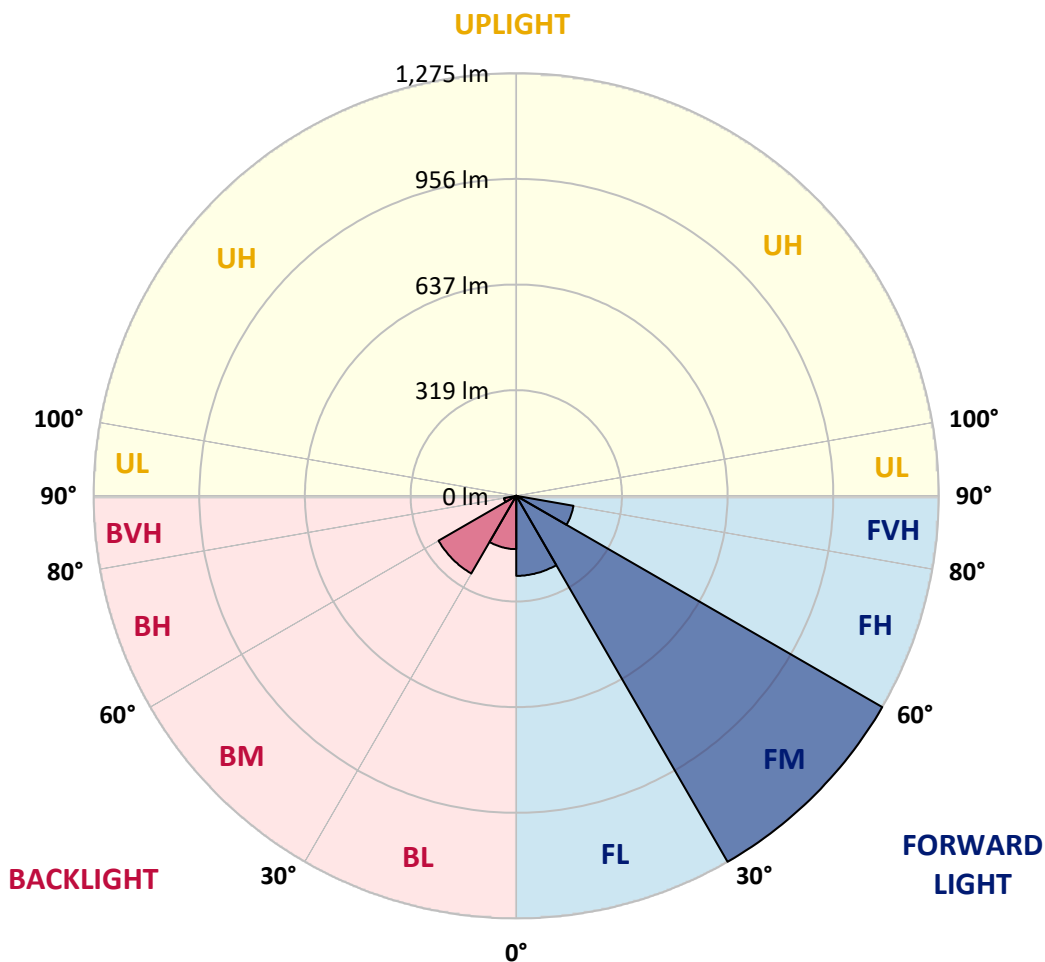


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	241.4	11.2			
FM (30°-60°)	1274.7	58.9			
FH (60°-80°)	175.1	8.1			G0/660
FVH (80°-90°)	1.7	0.1			G0/10
BL (0°-30°)	160.8	7.4	B1/500		
BM (30°-60°)	270.6	12.5	B1/1000		
BH (60°-80°)	37.4	1.7	B0/110		G0/110
BVH (80°-90°)	1.7	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G0**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	413.2	413.2	413.2	413.2	413.2	413.2	413.2	413.2	413.2	413.2	413.2
2.5°	420.7	418.7	418.7	415.6	419.1	417.6	418.7	414.8	418.7	412.8	417.6
5°	422.7	423.1	421.5	423.4	423.4	425.8	421.9	425.4	427.4	423.1	421.1
7.5°	432.9	433.7	433.3	431.7	434.9	434.5	434.1	431.4	432.1	430.6	428.2
10°	453.0	452.6	454.6	450.6	448.3	451.0	451.8	447.5	444.4	443.2	435.7
12.5°	482.2	477.4	474.7	470.7	471.9	468.0	475.0	467.6	466.0	458.9	451.4
15°	505.8	505.0	505.4	499.1	492.0	493.6	493.6	489.6	487.3	478.6	468.0
17.5°	554.2	537.7	541.2	533.4	527.4	527.0	523.5	524.3	518.0	499.9	483.7
20°	592.0	585.0	579.4	566.0	557.0	559.8	558.2	554.2	552.2	528.6	505.8
22.5°	625.9	628.3	619.2	615.7	603.1	604.2	607.5	603.8	588.9	564.5	530.6
25°	673.6	670.9	658.7	654.3	642.5	646.8	659.1	656.2	646.8	602.7	549.9
27.5°	729.9	720.4	722.9	703.1	691.7	703.9	718.5	732.3	705.5	647.6	572.8
30°	769.7	759.8	759.0	758.3	755.5	769.7	786.7	799.3	777.6	692.5	610.6
32.5°	789.4	791.8	798.4	796.1	820.1	849.2	867.0	885.1	857.9	765.8	660.6
35°	841.8	826.8	841.8	843.4	868.2	930.0	952.5	995.8	989.1	869.4	721.6
37.5°	872.5	871.3	873.3	888.3	912.3	988.7	1020.6	1054.2	1041.5	931.6	797.6
40°	923.3	926.5	926.1	937.5	963.9	1032.9	1045.9	1073.0	1074.2	1017.9	909.5
42.5°	1004.9	992.3	984.0	995.8	1032.9	1071.1	1097.1	1091.5	1130.5	1122.7	1053.3
45°	1078.1	1085.6	1073.4	1093.1	1106.5	1127.0	1126.2	1138.0	1187.7	1225.1	1161.7
47.5°	1146.7	1151.4	1157.4	1170.7	1199.9	1203.0	1196.3	1191.2	1259.8	1298.4	1245.5
50°	1187.7	1192.0	1219.5	1243.6	1298.0	1305.0	1308.9	1295.9	1342.5	1346.8	1324.8
52.5°	1176.6	1181.3	1219.9	1299.2	1385.8	1450.8	1439.0	1416.9	1414.2	1431.1	1398.0
55°	1078.9	1074.6	1127.8	1251.1	1413.4	1569.4	1570.9	1547.7	1503.2	1491.8	1387.0
56°	995.8	978.9	1046.6	1195.6	1377.9	1559.1	1576.8	1552.0	1510.3	1459.0	1318.8
57.5°	815.8	831.9	899.3	1022.6	1255.4	1485.4	1495.7	1489.8	1458.3	1372.4	1160.5
60°	449.8	478.2	537.7	688.6	893.8	1140.0	1148.3	1196.3	1202.2	1050.9	798.4
62.5°	191.1	187.9	249.8	360.8	509.0	688.2	703.5	752.8	761.9	605.8	400.6
65°	77.6	81.9	113.1	181.6	269.0	313.6	335.2	351.4	381.3	250.2	147.8
67.5°	51.2	50.8	66.6	103.6	144.9	139.8	139.8	147.8	136.7	102.0	63.8
70°	36.6	37.8	47.7	71.7	90.2	66.9	64.2	61.5	69.7	67.3	51.6
72.5°	24.0	25.6	31.9	42.9	46.9	36.6	36.6	44.1	57.6	54.3	42.1
75°	15.7	16.1	19.7	24.8	23.3	18.9	20.9	29.5	41.7	40.2	29.9
77.5°	10.6	11.0	13.4	16.1	13.0	10.6	11.4	15.0	20.5	20.5	15.7
80°	3.9	4.3	5.5	5.1	5.9	7.5	8.3	10.3	12.2	12.2	10.6
82.5°	0.0	0.4	1.2	2.7	4.3	5.9	6.7	7.9	9.1	10.3	9.9
85°	0.0	0.4	1.2	2.0	3.1	3.5	3.9	2.7	2.3	2.3	2.0
87.5°	0.0	0.0	0.4	0.4	0.4	0.4	0.4	0.4	0.8	0.4	0.4
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°	413.2	413.2	413.2	413.2	413.2	413.2	413.2	413.2	413.2	413.2	413.2
2.5°	413.2	412.8	412.8	411.6	414.0	412.8	413.6	413.2	408.1	412.0	409.3
5°	417.6	420.3	416.0	415.1	412.0	413.2	413.2	409.3	412.8	412.4	411.6
7.5°	428.6	423.8	419.1	414.4	413.6	412.4	408.1	406.5	409.3	406.1	410.8
10°	433.3	434.1	427.0	420.7	414.8	406.5	400.6	397.1	392.8	397.5	400.2
12.5°	455.0	447.1	434.9	425.0	405.0	396.7	390.8	389.2	396.7	398.2	395.5
15°	462.4	461.3	445.5	423.4	402.6	392.8	393.9	390.8	391.6	387.6	388.4
17.5°	477.8	464.4	445.9	418.4	402.1	399.8	392.8	380.1	373.0	369.9	372.6
20°	494.8	481.8	455.0	420.3	405.8	399.4	376.2	360.8	346.2	338.3	338.8
22.5°	509.7	493.6	451.0	421.1	408.9	382.9	354.9	324.6	306.5	294.3	294.6
25°	527.8	505.0	452.6	422.7	400.6	356.5	316.3	286.7	265.1	256.8	259.6
27.5°	538.1	512.1	461.3	426.2	379.0	319.1	275.8	248.1	235.5	231.6	231.2
30°	568.8	527.8	471.9	419.1	342.7	278.9	238.7	221.7	209.5	206.0	206.8
32.5°	614.5	556.6	485.7	400.6	305.7	243.0	214.7	202.1	190.7	183.9	183.1
35°	652.7	605.8	500.3	371.8	262.8	215.5	197.7	182.0	164.7	157.1	155.2
37.5°	725.6	661.4	497.1	328.5	221.7	195.0	179.6	160.4	145.3	135.1	133.9
40°	822.5	726.4	481.8	275.8	191.4	176.9	160.4	141.8	123.3	114.6	113.8
42.5°	940.3	805.9	453.8	222.1	161.1	158.7	143.8	122.5	105.9	99.7	100.1
45°	1036.0	874.1	425.4	178.4	138.7	141.0	128.0	107.9	96.5	91.4	91.4
47.5°	1121.1	920.2	394.7	147.4	117.8	123.3	111.9	100.1	90.2	86.3	85.5
50°	1203.0	967.1	363.9	119.3	100.5	105.9	104.8	95.3	87.5	82.7	83.2
52.5°	1254.2	974.5	324.9	97.7	87.9	94.1	98.1	89.4	80.7	78.0	77.2
55°	1191.6	878.1	252.1	80.3	74.5	82.7	90.2	80.3	73.7	68.9	68.5
56°	1107.3	785.0	210.7	74.1	70.5	79.6	87.5	76.8	69.3	66.6	64.6
57.5°	937.5	642.5	155.6	65.8	65.4	74.1	83.2	73.3	64.6	62.2	62.2
60°	584.6	361.6	94.1	55.1	56.7	65.8	74.9	65.4	57.6	57.6	58.7
62.5°	266.3	150.5	57.1	46.9	48.9	56.7	66.6	59.1	54.7	59.1	59.9
65°	90.6	65.0	41.3	37.4	38.6	46.9	57.1	59.9	59.5	62.2	63.8
67.5°	50.8	41.7	34.7	31.1	30.3	34.7	46.9	59.9	57.6	56.3	57.1
70°	42.9	35.5	30.7	27.6	26.4	28.0	36.3	45.3	40.6	39.4	38.6
72.5°	34.7	29.5	26.8	24.8	21.3	18.1	16.5	17.3	19.3	20.5	22.5
75°	24.4	22.5	22.5	20.1	15.3	11.4	9.1	7.5	5.1	3.5	3.9
77.5°	13.8	13.8	14.2	12.2	9.9	7.5	5.5	3.9	2.0	0.8	0.4
80°	9.5	10.3	11.0	9.9	8.3	6.7	4.7	2.7	1.2	0.0	0.0
82.5°	9.5	10.6	11.4	9.9	8.3	6.3	4.7	2.7	1.2	0.4	0.0
85°	2.0	2.3	2.7	3.1	4.7	4.7	3.5	2.3	1.2	0.4	0.0
87.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	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)