

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: P450358

Luminaire Tested: **GALN-SA1A-827-U-T3R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450358  
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-827-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 2700K, 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: 2663 lumens  
Efficiency: N/A  
Efficacy: 80.7 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

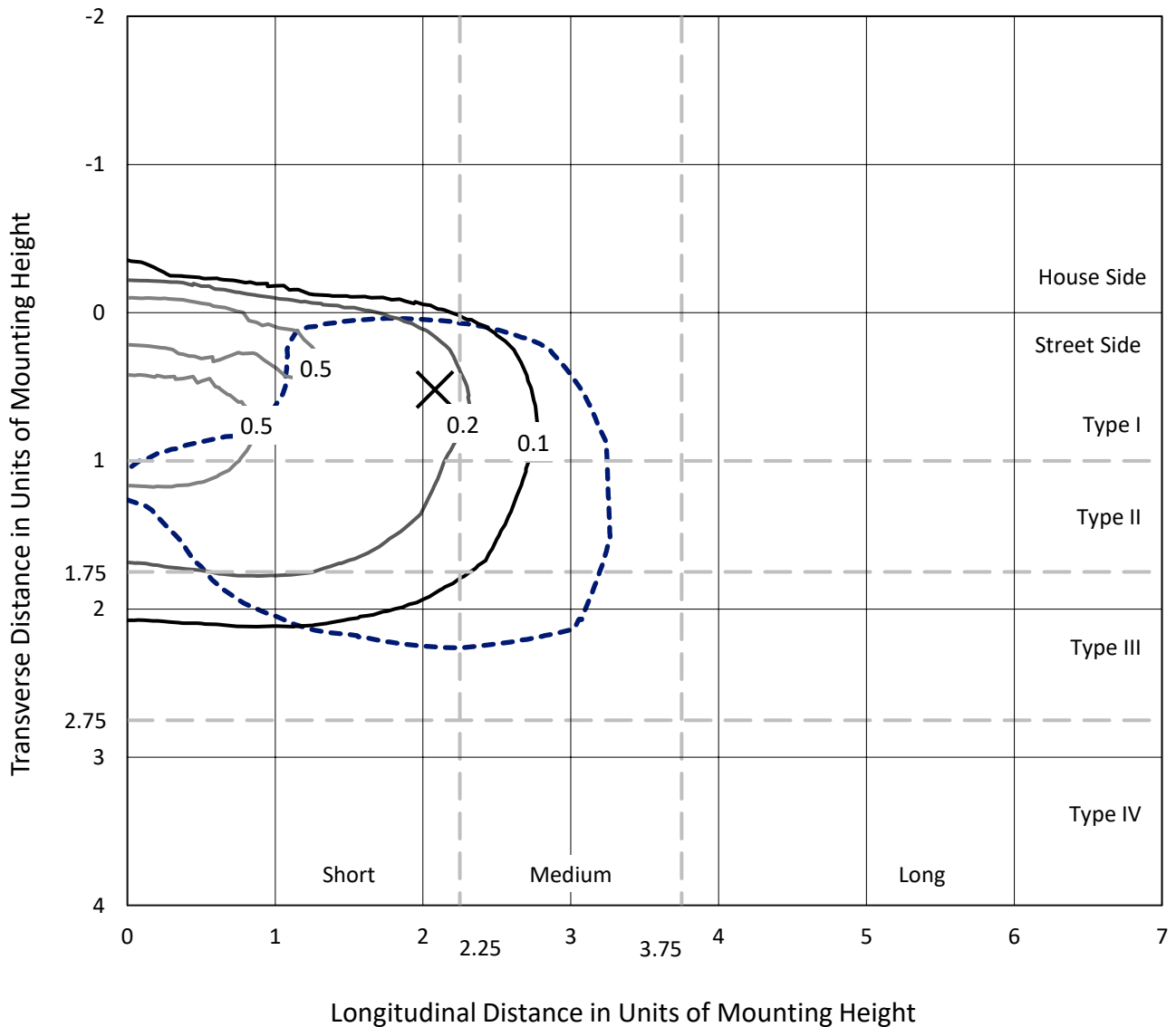
Input Watts (W): 33  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

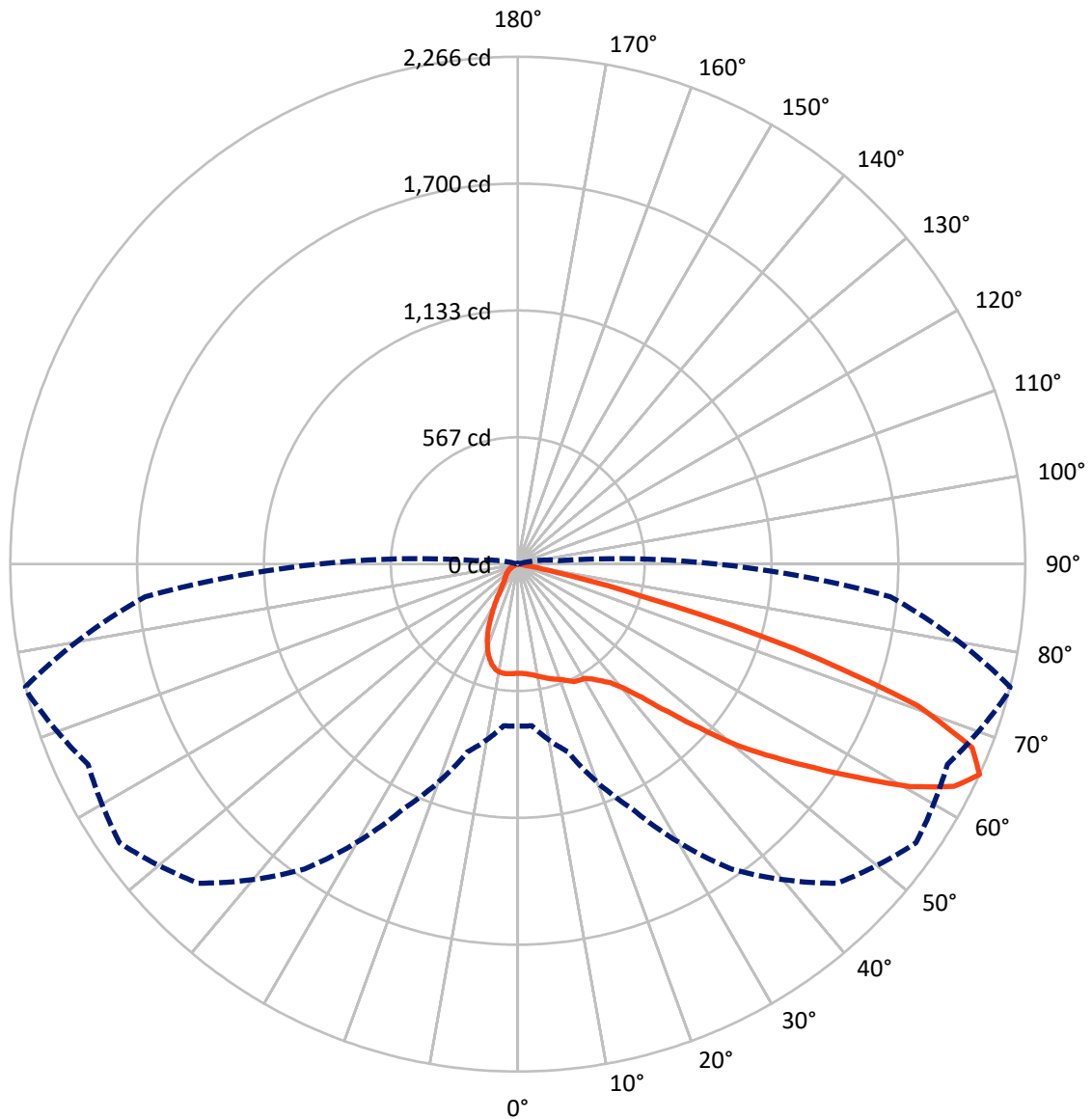
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	192.3	0.0	192.3
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	2470.7	0.0	2470.7
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	2663.0	0.0	2663.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	40.1	1.5
10°-20°	89.4	3.4
20°-30°	144.0	5.4
30°-40°	250.4	9.4
40°-50°	413.7	15.5
50°-60°	639.1	24.0
60°-70°	780.4	29.3
70°-80°	296.2	11.1
80°-90°	9.9	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°	2663.0	100.0
0°-180°	2663.0	100.0

**Coefficient of Utilization**



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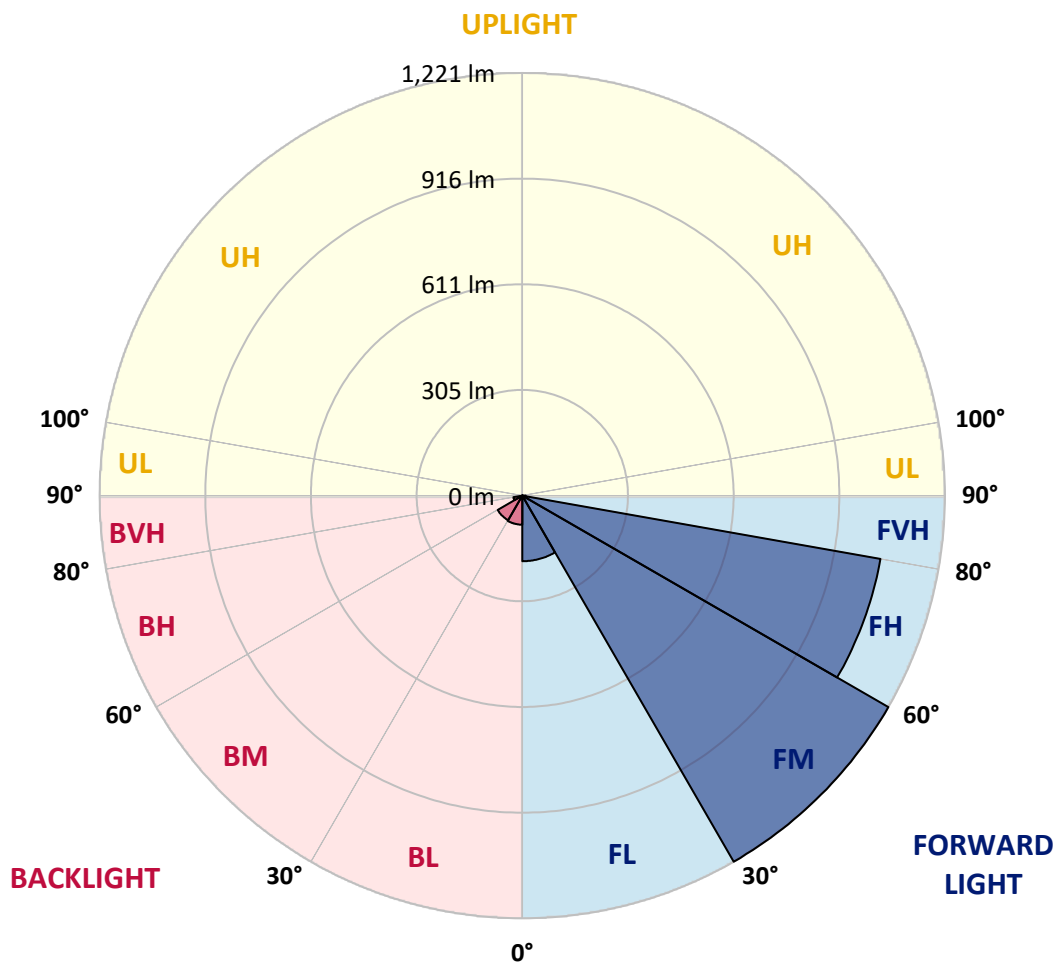
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	189.4	7.1			
FM (30°-60°)	1221.0	45.9			
FH (60°-80°)	1050.5	39.4			G1/1800
FVH (80°-90°)	9.8	0.4			G0/10
BL (0°-30°)	84.0	3.2	B0/110		
BM (30°-60°)	82.1	3.1	B0/220		
BH (60°-80°)	26.1	1.0	B0/110		G0/110
BVH (80°-90°)	0.1	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°	65°	75°	76°	85°
0°	487.1	487.1	487.1	487.1	487.1	487.1	487.1	487.1	487.1	487.1	487.1
2.5°	465.5	465.7	466.8	469.7	474.0	477.6	480.6	485.5	488.8	489.2	490.3
5°	433.4	431.1	433.4	440.7	447.3	457.3	469.5	481.7	492.6	493.4	498.6
7.5°	397.3	399.2	402.7	410.2	422.7	437.9	455.6	477.4	498.1	499.9	510.3
10°	360.6	364.7	370.6	382.0	399.3	419.1	443.2	474.4	506.7	509.3	527.2
12.5°	326.8	328.7	335.8	351.2	372.6	400.5	433.8	472.7	516.3	519.5	545.2
15°	300.8	303.3	309.5	323.4	347.3	383.0	426.0	472.1	525.7	530.2	563.3
17.5°	295.9	297.4	300.1	309.5	330.3	369.1	419.1	471.9	534.7	540.2	580.0
20°	316.1	314.7	312.1	311.2	322.6	358.4	414.0	473.4	543.4	549.6	597.7
22.5°	366.4	368.1	352.7	334.5	330.7	356.7	413.3	480.6	557.1	564.4	617.4
25°	473.4	460.4	436.4	392.8	359.9	367.0	421.7	497.5	573.1	581.2	635.3
27.5°	591.7	587.7	550.3	478.5	417.2	388.8	436.8	510.5	578.3	586.6	645.5
30°	707.9	712.6	669.7	590.4	500.5	429.2	450.9	515.3	583.0	591.7	658.4
32.5°	815.6	821.3	783.6	705.1	598.6	499.2	475.1	534.3	602.8	611.6	680.1
35°	900.4	901.2	872.8	810.2	705.8	584.2	527.6	567.6	629.5	639.8	703.0
37.5°	978.2	977.1	943.8	889.9	795.1	668.6	593.6	606.0	659.9	670.7	736.1
40°	1036.0	1036.7	1026.0	975.2	878.4	746.6	645.8	641.9	711.1	727.8	784.2
42.5°	1074.5	1081.5	1086.7	1061.0	983.1	842.7	726.1	718.8	799.8	813.7	852.3
45°	1105.7	1118.1	1144.4	1143.1	1083.7	960.6	836.3	821.3	925.6	940.5	938.9
47.5°	1128.5	1141.1	1184.7	1211.0	1178.3	1074.9	974.9	961.9	1075.8	1092.0	1034.6
50°	1140.1	1155.2	1210.8	1261.8	1252.2	1185.1	1132.8	1133.5	1257.3	1272.9	1145.6
52.5°	1112.9	1132.4	1224.7	1316.5	1335.1	1290.5	1280.8	1305.6	1418.8	1432.1	1245.8
55°	1025.8	1050.4	1205.7	1363.1	1431.2	1415.0	1448.8	1486.6	1595.3	1604.0	1348.6
57.5°	970.7	996.9	1149.7	1402.8	1546.6	1571.4	1625.0	1652.7	1777.5	1799.5	1466.7
60°	924.3	944.8	1103.6	1411.2	1663.9	1762.8	1814.9	1843.5	2002.4	2016.7	1596.6
62.5°	847.0	870.5	1025.8	1352.2	1723.0	1916.1	2024.0	2011.2	2176.3	2186.2	1676.3
65°	722.7	724.8	867.9	1203.9	1662.1	2015.5	2170.8	2117.2	2259.4	2266.1	1670.1
67.5°	539.4	559.3	667.6	946.3	1403.9	1930.5	2218.4	2120.1	2206.9	2188.1	1537.6
70°	347.5	362.7	452.6	656.2	1012.3	1611.1	2060.6	1974.7	1936.9	1895.2	1258.6
72.5°	160.4	179.9	268.9	374.9	600.3	1147.6	1672.8	1604.3	1394.1	1291.1	800.0
75°	69.9	74.8	132.7	197.8	281.5	606.9	1102.9	995.9	629.7	575.1	320.2
77.5°	42.7	45.9	69.6	106.0	110.6	231.3	594.1	434.5	194.6	171.7	86.9
80°	29.0	32.5	50.6	55.5	37.8	64.5	223.0	116.0	39.3	37.6	18.6
82.5°	14.1	17.9	37.4	31.0	16.4	20.7	64.9	24.8	11.5	10.7	6.6
85°	2.1	3.6	21.1	20.3	7.3	4.9	11.5	6.2	3.9	3.8	3.0
87.5°	0.0	0.0	7.1	3.2	0.8	0.8	1.3	1.3	1.5	1.3	1.5
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°	487.1	487.1	487.1	487.1	487.1	487.1	487.1	487.1	487.1	487.1	487.1
2.5°	490.9	491.8	488.3	483.2	477.7	472.3	464.6	457.6	453.5	455.9	449.9
5°	499.7	499.0	489.6	474.2	453.7	429.1	404.6	383.7	377.0	366.8	365.7
7.5°	512.0	509.9	490.0	454.6	408.4	362.1	317.0	287.1	270.0	255.5	255.9
10°	529.1	523.1	485.6	420.2	344.1	274.3	216.8	177.3	160.2	154.7	150.4
12.5°	546.7	535.1	473.6	373.8	267.9	187.5	131.8	107.7	97.2	93.8	93.4
15°	562.5	544.1	452.6	317.9	194.8	119.8	89.9	82.0	80.7	80.8	80.7
17.5°	578.1	551.3	423.4	258.7	132.4	85.9	77.3	75.4	76.0	76.7	76.5
20°	591.1	552.8	386.2	197.4	93.6	75.4	72.6	72.2	72.8	73.3	73.3
22.5°	605.2	553.9	342.0	136.7	76.5	70.1	68.6	68.6	69.4	70.1	70.3
25°	615.8	547.7	289.2	98.1	67.5	65.1	64.3	64.5	65.2	65.6	65.4
27.5°	617.4	530.2	233.1	75.2	61.3	58.8	58.1	58.8	57.9	58.5	58.1
30°	618.9	508.0	176.4	63.4	55.7	51.9	50.8	49.6	48.9	47.9	47.8
32.5°	623.6	481.9	128.8	57.0	50.4	46.3	43.6	40.4	38.0	37.2	37.0
35°	625.7	450.5	94.6	51.9	45.7	41.2	36.5	32.0	28.4	27.1	28.0
37.5°	633.6	420.0	73.3	48.1	41.6	35.9	29.9	24.3	20.9	20.1	20.5
40°	649.8	386.9	61.5	44.9	38.0	31.0	23.7	18.2	16.0	15.2	15.0
42.5°	675.7	354.0	54.7	41.9	34.4	26.1	18.6	14.3	12.4	11.8	11.8
45°	707.3	322.4	50.0	38.7	30.6	21.1	14.7	11.5	10.3	10.0	10.0
47.5°	748.9	294.8	46.1	35.5	26.5	16.7	11.8	10.0	9.2	9.4	9.6
50°	791.0	274.3	41.7	32.0	21.8	13.7	10.2	8.8	8.6	8.8	8.8
52.5°	822.8	262.3	35.9	27.1	17.1	11.5	9.0	8.3	8.1	7.7	7.7
55°	865.6	259.6	28.6	22.0	13.5	9.6	8.1	7.5	7.0	6.6	6.4
57.5°	920.7	262.7	22.0	17.1	10.5	7.9	7.1	6.2	5.5	4.7	4.7
60°	954.9	255.9	17.1	13.2	7.7	6.4	5.5	4.5	3.6	3.0	2.8
62.5°	944.0	227.3	13.5	9.8	5.5	4.7	3.6	3.0	2.1	1.5	1.3
65°	887.8	183.5	10.9	6.8	3.9	2.8	1.9	1.9	0.9	0.2	0.0
67.5°	777.1	135.9	8.6	4.5	2.3	1.3	0.9	0.6	0.0	0.0	0.0
70°	632.5	98.1	6.8	2.8	1.3	0.9	0.4	0.2	0.0	0.0	0.0
72.5°	401.6	56.2	5.3	1.7	0.9	0.4	0.0	0.0	0.0	0.0	0.0
75°	155.3	22.0	3.6	1.1	0.4	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	44.0	10.3	2.1	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	11.5	4.5	1.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	5.5	1.9	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.2	0.8	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.5	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)