

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: P646756

Luminaire Tested: **GALN-SA1C-835-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P646756
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1C-835-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4029.3 lumens
Efficiency: N/A
Efficacy: 70.7 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

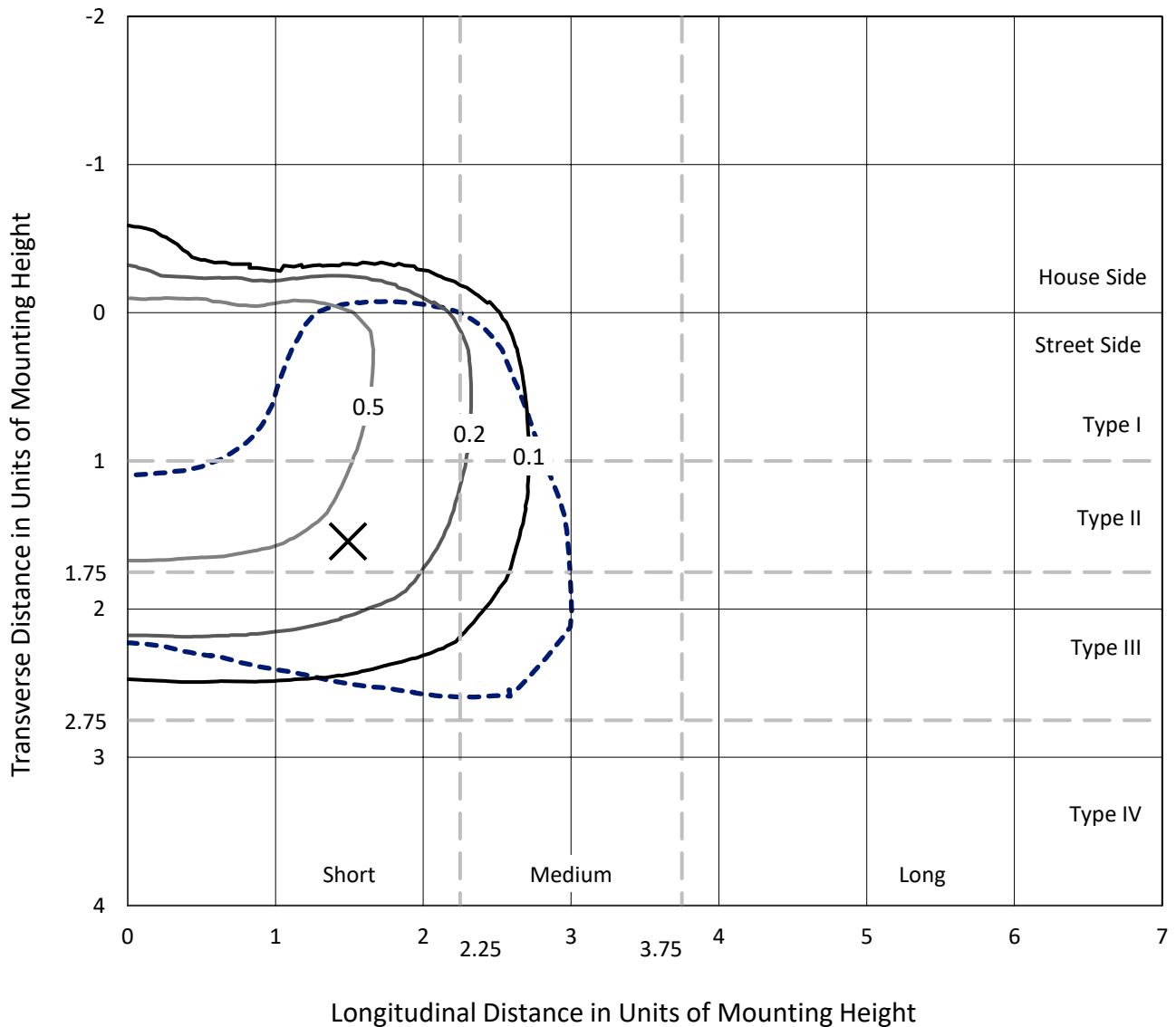
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

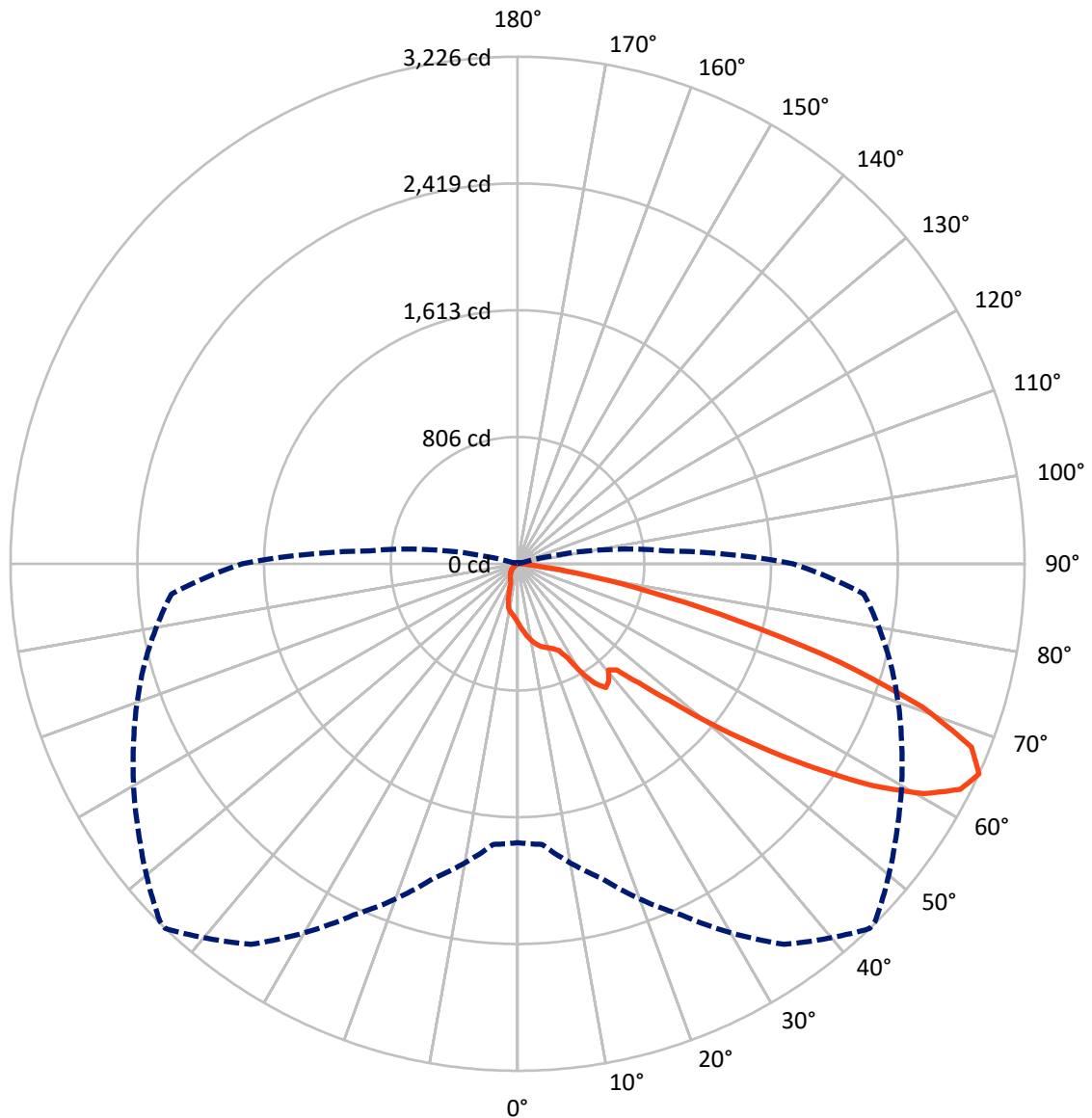
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	371.3	0.0	371.3
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	3658.1	0.0	3658.1
	% Fixture	90.8	0.0	90.8
Total	Lumens	4029.3	0.0	4029.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.3	0.9
10°-20°	112.3	2.8
20°-30°	190.3	4.7
30°-40°	316.5	7.9
40°-50°	552.6	13.7
50°-60°	1079.6	26.8
60°-70°	1252.5	31.1
70°-80°	456.1	11.3
80°-90°	32.1	0.8
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°	4029.3	100.0
0°-180°	4029.3	100.0

Coefficient of Utilization



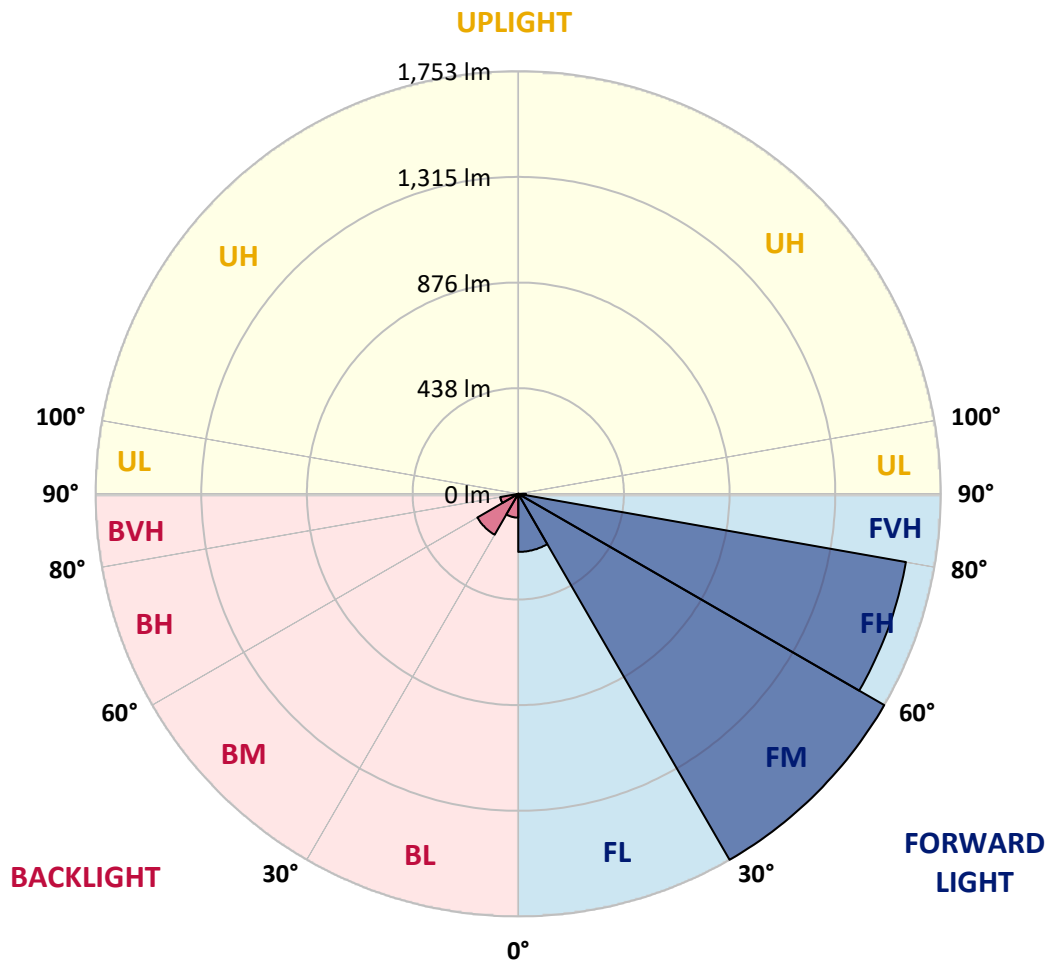
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	241.0	6.0			
FM (30°-60°)	1752.8	43.5			
FH (60°-80°)	1632.6	40.5			G1/1800
FVH (80°-90°)	31.7	0.8			G1/100
BL (0°-30°)	98.9	2.5	B0/110		
BM (30°-60°)	195.9	4.9	B0/220		
BH (60°-80°)	76.0	1.9	B0/110		G0/110
BVH (80°-90°)	0.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	375.0	375.0	375.0	375.0	375.0	375.0	375.0	375.0	375.0	375.0	375.0
2.5°	422.1	420.2	419.4	414.4	410.8	406.1	406.1	400.3	393.5	386.1	379.3
5°	469.3	466.1	462.1	457.8	449.2	436.9	436.9	424.5	410.4	397.8	383.9
7.5°	514.5	511.7	505.0	496.7	482.5	469.6	468.6	450.8	433.8	414.8	395.0
10°	554.2	552.0	546.2	530.2	515.4	498.5	498.1	478.2	458.4	435.0	410.8
12.5°	581.9	582.2	574.5	559.1	540.0	524.1	522.8	503.1	482.5	457.2	427.4
15°	601.6	601.6	593.6	576.4	559.1	545.0	543.7	526.5	505.3	477.9	445.5
17.5°	607.1	609.0	600.4	585.0	571.1	558.8	558.5	544.0	527.1	500.7	464.0
20°	605.0	606.8	600.1	588.0	578.6	571.4	570.5	564.7	549.0	524.1	483.7
22.5°	600.4	602.2	597.3	590.2	585.6	587.8	586.2	591.2	582.9	552.6	507.1
25°	601.3	603.1	599.5	595.5	599.5	612.7	616.7	637.9	630.5	589.0	532.4
27.5°	630.2	633.9	628.7	630.5	644.7	675.5	683.2	719.8	687.2	635.2	571.7
30°	694.6	692.2	682.3	691.2	740.5	805.8	803.6	797.7	746.7	688.4	618.6
32.5°	753.1	751.0	750.3	788.8	878.1	909.8	908.3	851.6	799.9	749.4	664.8
35°	776.8	768.5	766.6	860.0	1009.3	967.4	957.8	873.8	864.6	815.9	711.8
37.5°	848.2	842.4	813.8	871.6	956.9	943.0	935.7	912.0	933.5	874.7	765.1
40°	995.4	979.1	953.2	896.5	882.8	888.5	896.0	960.9	1015.1	955.1	836.2
42.5°	1178.3	1174.6	1126.6	1021.0	917.2	925.2	934.7	1063.2	1132.5	1076.1	952.3
45°	1397.8	1403.1	1333.8	1209.1	1073.0	1079.8	1093.6	1214.0	1291.3	1264.2	1134.9
47.5°	1597.3	1593.3	1569.9	1440.3	1314.7	1299.6	1322.1	1407.7	1511.1	1515.4	1361.5
50°	1798.1	1819.3	1784.5	1733.7	1640.5	1608.8	1600.4	1642.3	1800.0	1779.3	1633.7
52.5°	2086.5	2097.7	2032.4	2019.4	2040.7	1937.8	1929.5	1939.7	2080.7	2009.9	1837.5
55°	2267.9	2261.5	2237.1	2338.1	2422.1	2293.8	2283.3	2242.4	2313.8	2172.7	2033.6
57.5°	2325.2	2334.4	2391.0	2573.6	2772.5	2663.5	2644.4	2528.1	2481.9	2324.6	2214.0
60°	2299.6	2316.6	2438.8	2710.4	2986.2	2969.9	2953.6	2758.0	2602.6	2451.4	2340.5
62.5°	2117.7	2141.3	2336.9	2686.0	3058.6	3160.5	3140.1	2901.6	2682.9	2513.0	2362.8
65°	1774.7	1792.2	2073.0	2465.3	2955.7	3225.7	3218.4	2946.5	2695.6	2456.7	2211.0
67.5°	1265.1	1324.8	1585.0	2077.6	2651.6	3114.3	3126.9	2892.6	2577.0	2213.1	1831.0
70°	795.3	835.9	1022.5	1487.4	2125.7	2732.2	2773.8	2646.0	2236.5	1725.1	1225.7
72.5°	379.3	409.5	542.5	941.6	1500.3	2149.6	2182.6	2172.2	1729.4	1086.9	632.4
75°	169.0	180.4	258.9	480.6	968.6	1444.9	1530.2	1544.4	1080.7	531.7	246.0
77.5°	86.2	86.5	121.3	232.8	483.7	862.1	879.0	928.6	585.9	234.3	85.6
80°	45.9	48.9	64.4	109.9	251.0	424.5	422.4	464.3	259.9	114.9	28.7
82.5°	20.6	22.8	36.3	57.6	122.5	161.1	173.7	190.0	111.4	73.3	12.6
85°	6.2	7.4	17.9	29.0	44.3	46.5	52.1	67.1	63.1	52.1	6.5
87.5°	0.9	0.9	7.4	8.0	6.5	8.3	8.6	9.6	20.4	19.1	3.4
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°	375.0	375.0	375.0	375.0	375.0	375.0	375.0	375.0	375.0	375.0	375.0
2.5°	375.6	373.5	365.7	359.3	353.8	350.4	346.4	343.9	342.7	341.8	342.1
5°	377.2	371.9	358.7	348.2	340.2	331.6	325.7	322.4	320.8	318.4	318.4
7.5°	385.8	377.5	359.0	343.0	329.1	317.4	306.4	302.3	299.6	298.9	298.3
10°	398.1	387.7	362.4	340.2	320.5	304.5	288.8	274.9	264.2	257.7	256.7
12.5°	413.5	398.4	367.6	338.3	313.1	284.8	243.2	215.2	196.5	190.6	191.5
15°	427.7	411.3	372.9	336.8	299.6	236.2	189.0	157.0	147.5	146.6	146.9
17.5°	444.6	425.2	379.1	334.7	262.3	180.4	140.4	131.8	133.7	136.7	136.4
20°	462.1	440.0	386.4	321.7	209.4	135.8	124.1	125.0	127.8	130.5	131.2
22.5°	480.9	456.9	395.0	290.6	159.8	118.2	117.6	118.9	121.6	124.7	125.3
25°	506.8	478.2	401.5	250.0	121.0	109.3	110.6	112.7	115.2	118.5	119.2
27.5°	540.0	506.8	404.9	197.1	104.7	101.3	101.6	104.7	107.7	110.9	110.9
30°	583.2	541.0	398.1	149.0	96.7	93.6	92.4	94.2	98.2	101.3	101.6
32.5°	621.6	573.3	380.2	113.9	90.8	86.5	83.5	83.8	85.3	87.1	87.5
35°	660.1	604.7	349.8	95.8	84.6	79.7	75.1	72.7	71.4	70.5	71.4
37.5°	709.4	643.8	309.1	87.1	79.5	73.3	66.8	61.5	57.2	54.5	55.1
40°	772.8	698.0	261.1	81.6	74.5	67.1	58.5	51.8	44.3	41.9	40.6
42.5°	877.5	780.2	210.6	77.0	69.6	60.7	49.9	40.6	33.9	31.4	32.0
45°	1042.8	883.9	162.2	72.0	64.7	53.6	41.9	32.0	26.5	25.2	25.8
47.5°	1262.0	1018.2	125.0	66.5	58.5	45.9	33.0	25.2	21.8	21.5	21.2
50°	1468.4	1143.2	104.4	60.4	51.1	38.2	27.1	21.2	19.1	18.8	18.8
52.5°	1654.9	1232.8	85.0	53.2	43.1	31.4	22.8	18.8	16.9	16.0	16.0
55°	1820.9	1291.3	69.0	44.6	33.9	25.0	19.7	16.9	14.8	13.5	13.2
57.5°	1946.1	1298.4	51.8	35.7	25.2	19.4	16.9	14.8	12.3	10.8	10.2
60°	1999.7	1237.1	38.2	27.1	18.8	15.4	13.5	12.0	9.2	7.7	7.4
62.5°	1945.8	1118.0	28.3	20.6	14.5	11.4	9.6	8.9	6.5	4.6	4.3
65°	1752.8	945.9	22.5	15.7	10.8	8.3	6.2	5.9	4.0	2.2	1.9
67.5°	1404.3	740.8	17.9	11.7	7.7	5.6	4.0	3.7	2.2	0.6	0.6
70°	913.2	473.6	14.5	8.6	4.9	3.7	2.4	1.9	1.3	0.3	0.0
72.5°	451.7	221.4	11.7	6.8	3.4	1.9	0.9	0.6	0.9	0.0	0.0
75°	175.2	78.8	8.6	4.6	1.9	0.9	0.6	0.0	0.3	0.0	0.0
77.5°	58.2	26.2	5.2	2.4	1.3	0.6	0.0	0.0	0.0	0.0	0.0
80°	21.5	10.2	2.7	1.6	0.6	0.3	0.0	0.0	0.0	0.0	0.0
82.5°	8.6	4.0	1.9	1.3	0.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.3	2.4	1.3	0.9	0.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.1	1.9	1.3	0.9	0.6	0.3	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)