

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: P647793

Luminaire Tested: **GALN-SA2A-835-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647793
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2A-835-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5286.8 lumens
Efficiency: N/A
Efficacy: 83.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

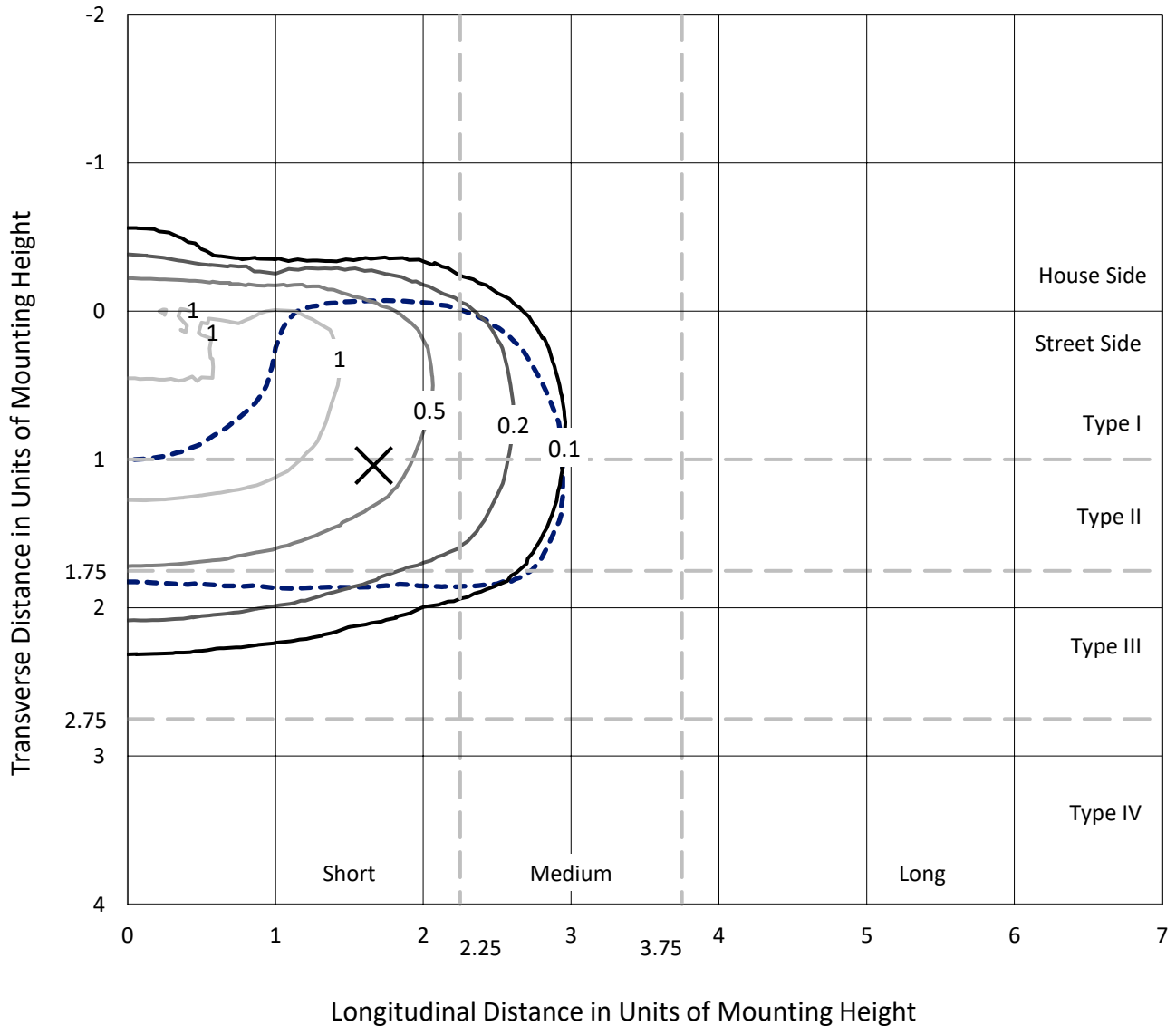
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

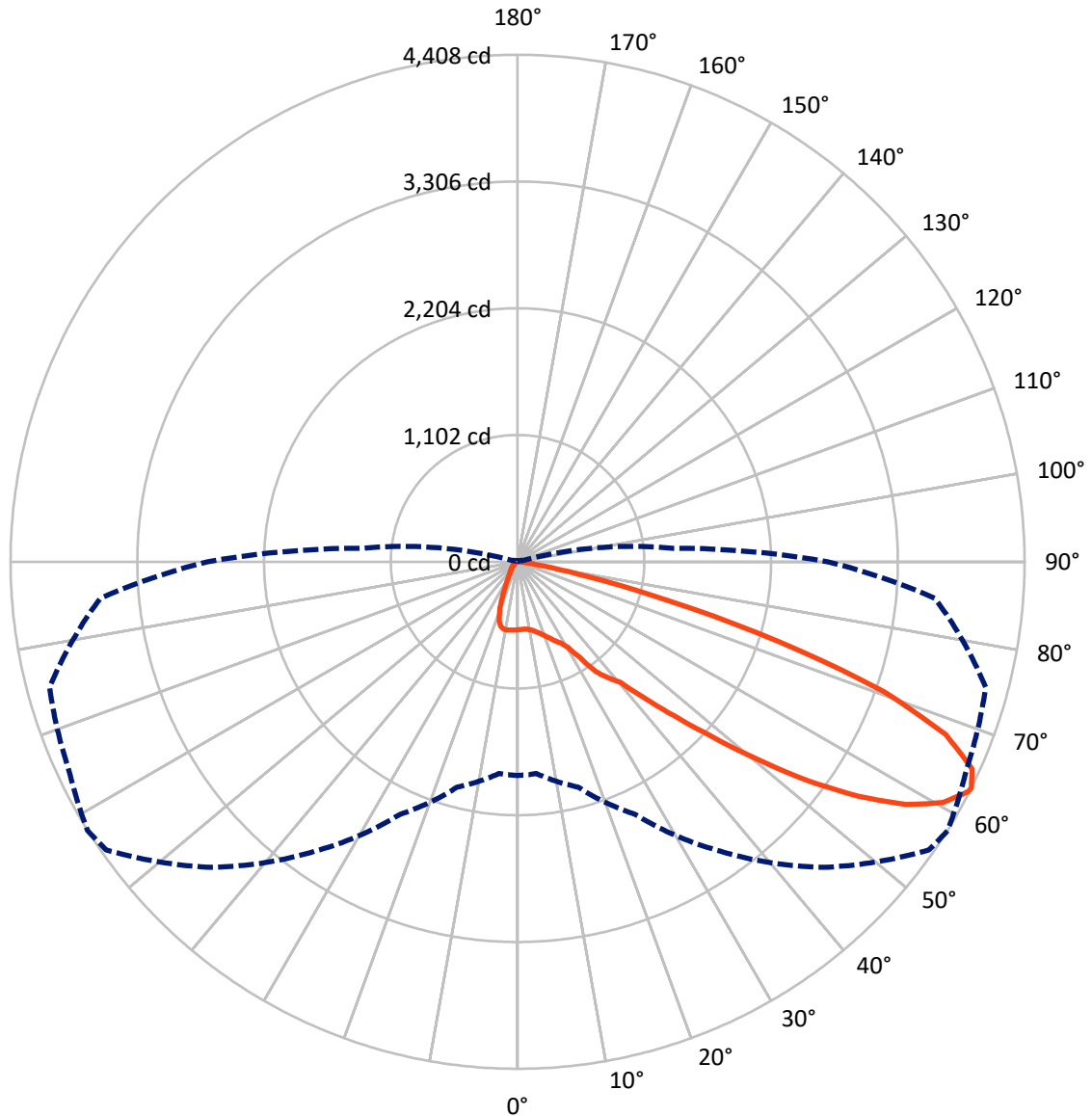
✕ Max cd
 - - - 1/2 Max cd



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 63-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	547.4	0.0	547.4
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	4739.4	0.0	4739.4
	% Fixture	89.6	0.0	89.6
Total	Lumens	5286.8	0.0	5286.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.4	1.0
10°-20°	150.9	2.9
20°-30°	261.9	5.0
30°-40°	481.3	9.1
40°-50°	906.0	17.1
50°-60°	1549.7	29.3
60°-70°	1483.8	28.1
70°-80°	378.4	7.2
80°-90°	19.3	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°	5286.8	100.0
0°-180°	5286.8	100.0

Coefficient of Utilization



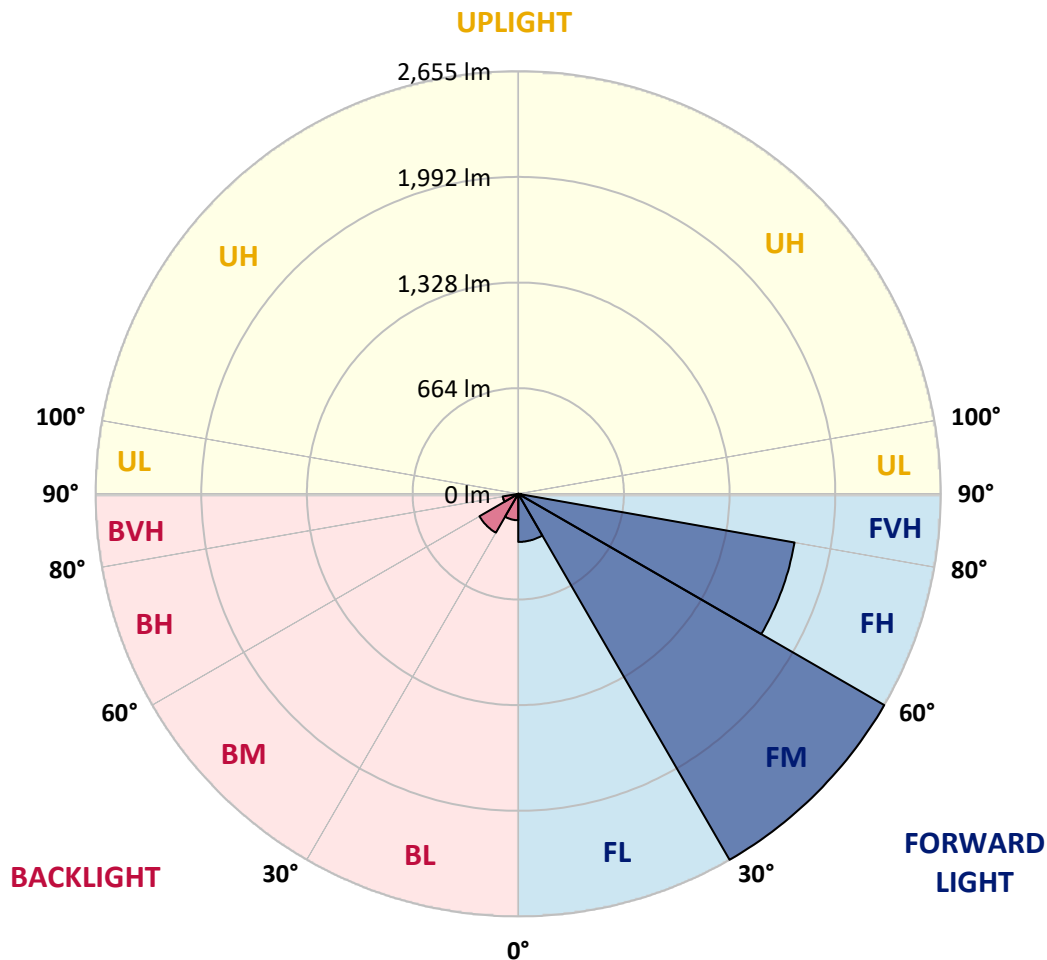
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	302.2	5.7			
FM (30°-60°)	2655.5	50.2			
FH (60°-80°)	1763.1	33.3			G1/1800
FVH (80°-90°)	18.6	0.4			G1/100
BL (0°-30°)	166.0	3.1	B1/500		
BM (30°-60°)	281.6	5.3	B1/1000		
BH (60°-80°)	99.1	1.9	B0/110		G0/110
BVH (80°-90°)	0.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	591.9	591.9	591.9	591.9	591.9	591.9	591.9	591.9	591.9	591.9	591.9
2.5°	577.1	579.1	581.1	581.9	584.7	587.5	589.5	589.1	592.3	593.9	593.9
5°	554.1	554.1	559.2	564.0	572.0	580.0	587.5	589.1	595.1	600.6	602.6
7.5°	534.6	535.7	539.7	548.5	559.2	573.2	588.3	591.9	602.2	614.6	619.7
10°	525.4	526.2	531.3	540.5	554.1	573.2	594.3	601.0	616.9	636.4	643.6
12.5°	523.4	524.6	529.8	540.1	555.7	578.7	607.4	614.6	637.7	662.7	673.5
15°	527.0	527.8	533.0	544.1	561.3	588.7	624.9	634.9	662.3	691.4	705.3
17.5°	539.7	538.9	542.5	551.7	570.8	601.0	646.0	658.0	690.2	730.0	739.2
20°	593.9	588.7	585.5	577.5	585.1	618.6	671.5	689.0	728.8	769.4	775.8
22.5°	710.5	699.0	676.3	645.2	621.3	642.5	702.1	722.5	773.8	813.6	813.6
25°	859.0	844.2	821.5	753.9	695.4	681.8	736.8	762.3	822.8	862.9	849.8
27.5°	1044.8	1033.3	989.1	910.3	820.7	750.7	777.0	800.5	866.2	914.7	887.2
30°	1196.1	1190.6	1154.3	1083.8	985.2	882.8	851.8	867.3	923.9	980.0	951.7
32.5°	1323.9	1323.9	1286.9	1221.2	1128.9	1038.1	978.8	989.9	1044.1	1109.0	1056.4
35°	1464.4	1459.6	1429.8	1367.3	1263.8	1183.7	1159.5	1174.6	1223.6	1271.7	1142.4
37.5°	1612.0	1610.5	1579.4	1518.9	1434.5	1333.8	1276.9	1280.9	1306.0	1335.4	1243.1
40°	1772.5	1774.8	1734.3	1696.8	1617.2	1514.2	1405.1	1380.0	1403.4	1486.7	1429.0
42.5°	1961.9	1956.3	1938.9	1887.9	1823.8	1762.1	1631.1	1622.0	1642.7	1731.8	1669.4
45°	2182.1	2190.0	2159.7	2131.5	2088.5	2037.1	1927.7	1911.8	1934.5	2073.0	1984.2
47.5°	2402.6	2395.0	2414.5	2409.3	2432.4	2394.2	2297.5	2264.8	2319.3	2450.7	2320.2
50°	2570.5	2578.9	2619.4	2678.8	2777.9	2799.4	2706.7	2695.5	2719.8	2804.2	2620.7
52.5°	2679.6	2707.5	2771.1	2923.6	3102.3	3241.2	3170.8	3164.8	3154.9	3177.5	2908.1
55°	2750.8	2779.1	2862.3	3086.7	3394.5	3620.1	3623.7	3598.3	3532.6	3516.2	3176.7
57.5°	2707.1	2712.6	2831.2	3131.4	3556.5	3890.4	4007.4	3981.9	3860.6	3798.9	3414.0
60°	2433.2	2444.8	2609.9	2962.6	3486.0	3978.7	4261.8	4250.2	4117.2	4047.6	3598.7
62.5°	1948.0	1981.5	2151.4	2544.7	3158.4	3829.9	4364.8	4397.5	4294.1	4198.1	3656.8
63°	1858.8	1848.1	2027.6	2422.8	3071.6	3756.3	4366.5	4407.8	4302.0	4212.4	3640.9
65°	1376.0	1408.2	1524.9	1910.6	2556.2	3413.6	4268.1	4341.3	4272.5	4149.1	3464.5
67.5°	772.6	771.0	900.0	1250.2	1789.2	2677.6	3859.3	4014.2	3999.9	3723.2	2871.8
70°	378.1	384.1	437.1	648.0	1037.7	1847.3	3207.0	3374.2	3379.3	2924.3	1985.8
72.5°	171.2	173.9	211.7	315.6	533.4	983.5	2209.9	2369.5	2340.1	1863.6	1096.6
75°	90.4	96.3	116.6	158.8	257.1	405.6	1202.1	1356.5	1294.8	851.4	403.6
77.5°	66.9	68.8	79.2	101.1	137.7	158.0	518.7	616.9	577.9	308.1	133.7
80°	48.9	50.6	58.9	71.6	86.8	80.4	195.4	224.1	201.0	104.7	41.0
82.5°	29.8	30.2	43.0	53.3	54.5	44.9	64.5	69.3	72.4	58.9	22.3
85°	10.7	13.5	29.0	38.6	32.3	22.7	27.1	29.8	32.7	37.4	13.2
87.5°	1.2	1.6	13.9	18.7	9.2	8.4	9.9	11.1	12.0	13.9	6.3
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°	591.9	591.9	591.9	591.9	591.9	591.9	591.9	591.9	591.9	591.9	591.9
2.5°	595.5	597.0	595.9	593.9	593.4	592.3	589.9	589.9	589.9	590.7	589.9
5°	604.2	605.4	602.6	598.7	594.3	588.7	582.7	579.1	578.7	577.9	576.0
7.5°	620.9	622.6	616.1	606.6	594.7	581.1	568.4	556.5	550.9	546.5	546.5
10°	645.2	646.8	634.1	616.9	593.0	565.6	535.3	507.9	486.4	476.5	474.0
12.5°	674.2	675.1	654.0	624.1	584.7	531.8	467.3	407.2	365.4	346.3	344.3
15°	706.1	700.6	672.7	626.9	560.9	462.1	350.7	277.0	233.6	220.9	225.7
17.5°	738.4	728.0	687.0	622.6	507.1	350.7	235.6	189.1	175.5	171.9	171.9
20°	768.6	754.3	697.3	603.5	414.0	241.6	174.8	163.6	161.2	158.8	159.2
22.5°	798.9	777.0	706.5	560.9	308.5	172.7	156.4	152.8	149.6	146.5	146.1
25°	828.3	798.0	710.1	482.0	210.2	148.5	142.9	138.1	131.8	128.2	127.4
27.5°	859.0	823.6	707.7	382.5	153.2	133.0	127.4	120.6	113.1	106.6	106.6
30°	917.8	872.1	699.4	275.1	129.0	117.1	109.9	99.1	90.7	84.4	84.0
32.5°	998.2	935.4	670.7	193.5	114.6	103.1	92.3	80.4	71.6	66.9	66.9
35°	1069.9	999.1	616.9	142.5	103.1	89.6	76.4	64.9	58.1	55.0	53.7
37.5°	1179.0	1092.2	542.9	115.8	91.9	77.6	64.0	53.3	47.8	45.4	45.4
40°	1342.6	1206.1	452.2	101.5	81.2	66.1	53.3	44.9	40.6	37.8	37.8
42.5°	1545.6	1345.4	360.3	91.1	71.3	56.9	44.6	38.2	34.2	32.3	31.9
45°	1801.1	1492.2	277.4	81.6	63.3	48.5	37.8	32.3	28.3	27.1	27.5
47.5°	2067.8	1621.6	214.9	73.2	55.0	41.0	32.3	27.9	25.1	23.5	23.5
50°	2295.4	1710.8	163.2	63.7	48.5	34.6	28.3	25.1	22.7	21.9	21.5
52.5°	2485.7	1736.6	125.0	55.4	42.6	29.8	25.1	22.7	20.7	19.5	19.5
55°	2647.7	1713.9	98.0	46.6	35.9	25.8	22.3	20.3	17.9	16.8	16.3
57.5°	2742.5	1641.1	74.9	38.6	29.0	21.5	19.5	17.1	14.3	12.4	12.4
60°	2790.2	1535.2	57.3	31.9	22.3	17.1	15.9	12.8	9.9	8.4	8.0
62.5°	2732.9	1394.7	43.4	25.1	16.8	12.8	10.7	9.2	6.3	4.8	4.8
63°	2697.5	1354.1	41.8	23.9	15.5	12.0	9.9	8.4	5.6	4.4	4.0
65°	2459.1	1177.0	34.2	19.1	12.4	8.4	6.7	6.0	4.0	2.0	1.6
67.5°	1952.8	900.4	27.1	14.3	8.8	6.0	4.0	3.6	1.2	0.0	0.0
70°	1320.3	581.5	21.1	10.3	6.0	3.6	2.0	1.6	0.4	0.0	0.0
72.5°	688.6	298.2	16.3	7.6	3.6	2.4	1.2	0.4	0.0	0.0	0.0
75°	243.6	101.5	12.0	4.8	2.4	1.2	0.4	0.0	0.0	0.0	0.0
77.5°	73.6	37.8	7.6	3.6	1.6	0.8	0.0	0.0	0.0	0.0	0.0
80°	25.8	13.9	4.4	2.4	1.2	0.4	0.0	0.0	0.0	0.0	0.0
82.5°	12.8	6.7	2.8	2.0	1.2	0.4	0.0	0.0	0.0	0.0	0.0
85°	7.2	4.4	2.4	2.0	1.2	0.8	0.0	0.0	0.0	0.0	0.0
87.5°	5.2	3.2	2.4	2.0	1.6	0.8	0.4	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)