

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: P451139

Luminaire Tested: **GALN-SA2A-727-U-T3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451139  
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-727-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 2700K, 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: 5647 lumens  
Efficiency: N/A  
Efficacy: 89.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

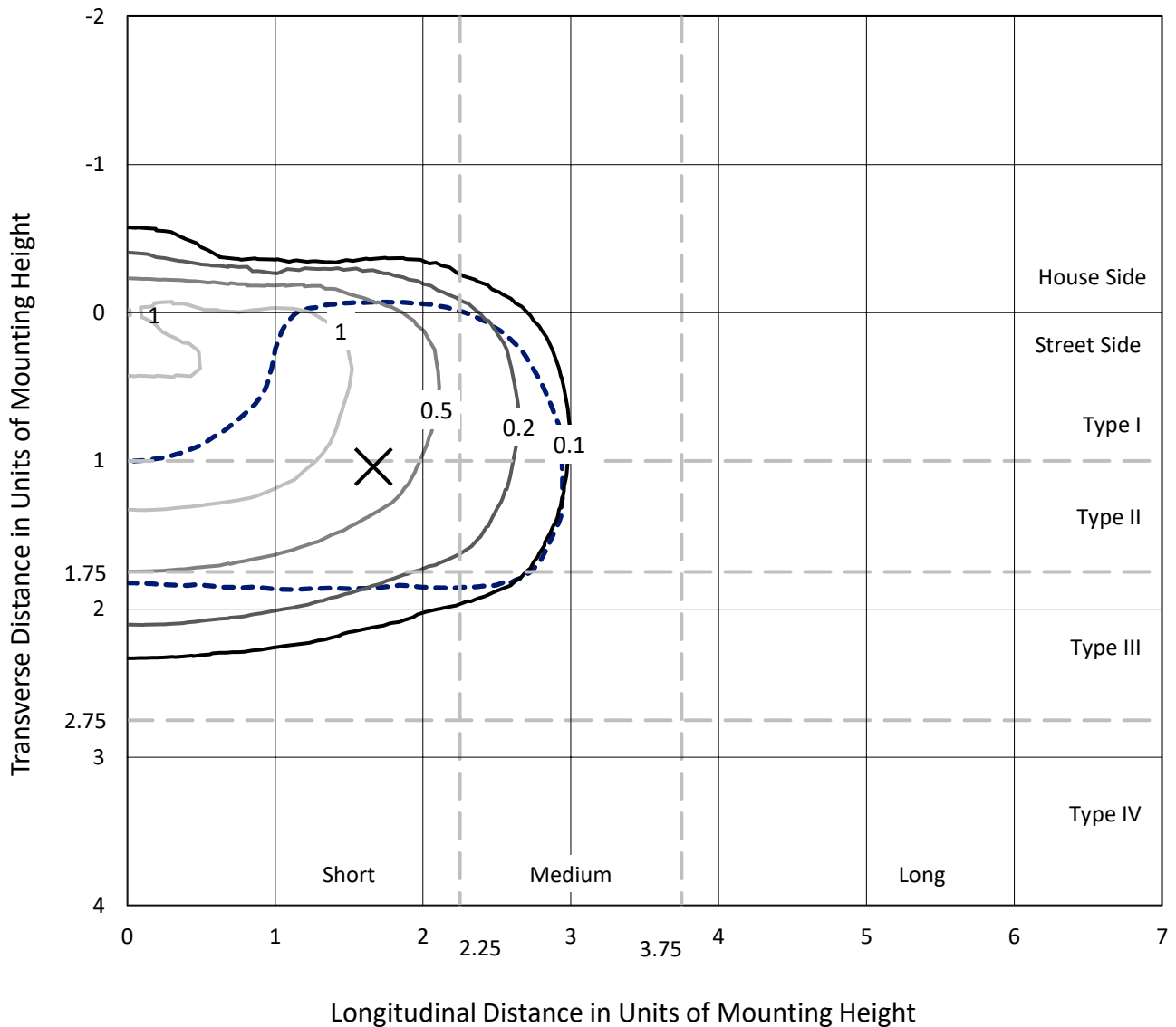
Input Watts (W): 63  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

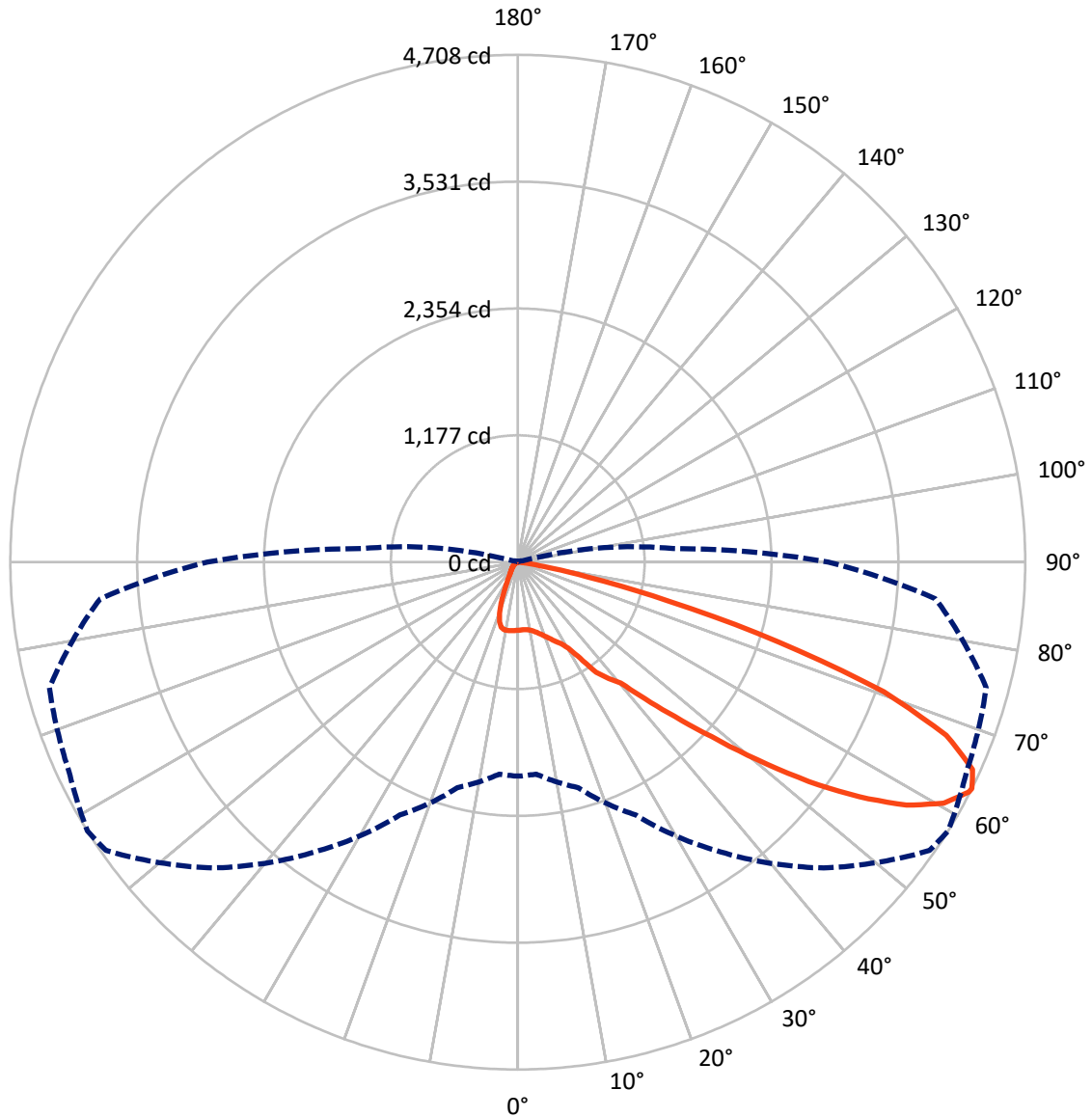
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 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
<b>House Side</b>	Lumens	584.7	0.0	584.7
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	5062.3	0.0	5062.3
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	5647.0	0.0	5647.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	59.2	1.0
10°-20°	161.2	2.9
20°-30°	279.8	5.0
30°-40°	514.1	9.1
40°-50°	967.8	17.1
50°-60°	1655.3	29.3
60°-70°	1584.9	28.1
70°-80°	404.2	7.2
80°-90°	20.7	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°	5647.0	100.0
0°-180°	5647.0	100.0

**Coefficient of Utilization**



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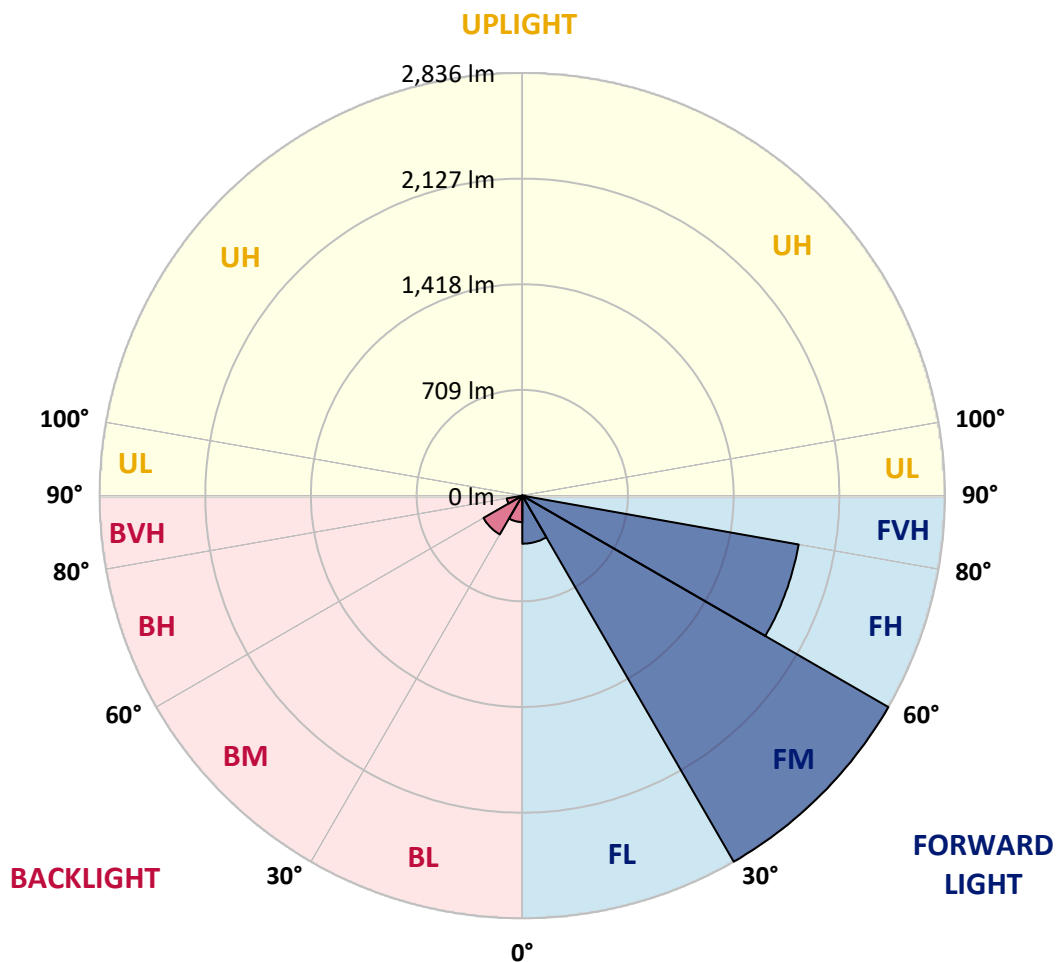
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	322.8	5.7			
FM	(30°-60°)	2836.4	50.2			
FH	(60°-80°)	1883.2	33.3			G2/5000
FVH	(80°-90°)	19.9	0.4			G1/100
BL	(0°-30°)	177.3	3.1	B1/500		
BM	(30°-60°)	300.7	5.3	B1/1000		
BH	(60°-80°)	105.8	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-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	632.2	632.2	632.2	632.2	632.2	632.2	632.2	632.2	632.2	632.2	632.2
2.5°	616.5	618.6	620.7	621.6	624.6	627.5	629.7	629.2	632.6	634.3	634.3
5°	591.8	591.8	597.3	602.4	610.9	619.4	627.5	629.2	635.6	641.6	643.7
7.5°	571.0	572.3	576.5	585.9	597.3	612.2	628.4	632.2	643.3	656.4	662.0
10°	561.2	562.1	567.6	577.4	591.8	612.2	634.8	642.0	659.0	679.8	687.5
12.5°	559.1	560.4	565.9	576.9	593.5	618.2	648.8	656.4	681.1	707.9	719.4
15°	562.9	563.8	569.3	581.2	599.5	628.8	667.5	678.1	707.5	738.5	753.4
17.5°	576.5	575.7	579.5	589.3	609.7	642.0	690.0	702.8	737.2	779.7	789.5
20°	634.3	628.8	625.4	616.9	625.0	660.7	717.2	735.9	778.5	821.8	828.6
22.5°	758.9	746.6	722.3	689.2	663.7	686.2	750.0	771.7	826.5	869.0	869.0
25°	917.5	901.8	877.5	805.2	742.7	728.3	787.0	814.2	878.8	921.7	907.7
27.5°	1116.0	1103.7	1056.5	972.3	876.7	801.8	829.9	855.0	925.1	977.0	947.7
30°	1277.6	1271.6	1232.9	1157.7	1052.3	943.0	909.8	926.4	986.8	1046.7	1016.5
32.5°	1414.1	1414.1	1374.5	1304.4	1205.7	1108.8	1045.5	1057.4	1115.2	1184.5	1128.4
35°	1564.1	1559.0	1527.2	1460.4	1349.9	1264.4	1238.5	1254.6	1306.9	1358.4	1220.2
37.5°	1721.9	1720.2	1687.0	1622.4	1532.3	1424.7	1363.9	1368.1	1394.9	1426.4	1327.8
40°	1893.2	1895.8	1852.4	1812.4	1727.4	1617.3	1500.8	1474.0	1499.1	1587.9	1526.3
42.5°	2095.6	2089.6	2070.9	2016.5	1948.1	1882.2	1742.3	1732.5	1754.6	1849.8	1783.1
45°	2330.7	2339.2	2306.9	2276.7	2230.8	2175.9	2059.0	2042.0	2066.2	2214.2	2119.4
47.5°	2566.2	2558.1	2579.0	2573.5	2598.1	2557.3	2454.0	2419.1	2477.4	2617.7	2478.2
50°	2745.6	2754.6	2797.9	2861.3	2967.1	2990.1	2891.0	2879.1	2905.1	2995.2	2799.2
52.5°	2862.1	2891.9	2959.9	3122.8	3313.6	3462.0	3386.8	3380.4	3369.8	3394.0	3106.2
55°	2938.2	2968.4	3057.3	3297.1	3625.7	3866.8	3870.6	3843.4	3773.2	3755.8	3393.2
57.5°	2891.5	2897.4	3024.1	3344.7	3798.7	4155.5	4280.4	4253.2	4123.6	4057.7	3646.5
60°	2599.0	2611.3	2787.7	3164.4	3723.5	4249.8	4552.1	4539.8	4397.8	4323.4	3843.8
62.5°	2080.7	2116.4	2298.0	2718.0	3373.6	4090.8	4662.2	4697.1	4586.6	4484.1	3905.9
63°	1985.5	1974.0	2165.7	2587.9	3280.9	4012.2	4663.9	4708.2	4595.1	4499.4	3888.9
65°	1469.8	1504.2	1628.8	2040.7	2730.3	3646.1	4558.9	4637.2	4563.6	4431.8	3700.5
67.5°	825.2	823.5	961.3	1335.4	1911.1	2860.0	4122.3	4287.7	4272.4	3976.9	3067.5
70°	403.9	410.3	466.8	692.2	1108.4	1973.1	3425.5	3604.0	3609.6	3123.6	2121.1
72.5°	182.8	185.8	226.2	337.1	569.7	1050.6	2360.5	2530.9	2499.5	1990.6	1171.3
75°	96.5	102.9	124.6	169.6	274.6	433.2	1284.0	1448.9	1383.0	909.4	431.1
77.5°	71.4	73.6	84.6	108.0	147.1	168.8	554.0	659.0	617.3	329.1	142.9
80°	52.3	54.0	62.9	76.5	92.7	85.9	208.8	239.4	214.7	111.8	43.8
82.5°	31.9	32.3	45.9	57.0	58.2	48.0	68.9	74.0	77.4	62.9	23.8
85°	11.5	14.5	31.0	41.2	34.4	24.2	28.9	31.9	34.9	40.0	14.0
87.5°	1.3	1.7	14.9	20.0	9.8	8.9	10.6	11.9	12.8	14.9	6.8
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°	632.2	632.2	632.2	632.2	632.2	632.2	632.2	632.2	632.2	632.2	632.2
2.5°	636.0	637.7	636.5	634.3	633.9	632.6	630.1	630.1	630.1	630.9	630.1
5°	645.4	646.7	643.7	639.4	634.8	628.8	622.4	618.6	618.2	617.3	615.2
7.5°	663.2	664.9	658.1	647.9	635.2	620.7	607.1	594.4	588.4	583.7	583.7
10°	689.2	690.9	677.3	659.0	633.5	604.1	571.8	542.5	519.5	508.9	506.4
12.5°	720.2	721.1	698.5	666.6	624.6	568.0	499.1	434.9	390.3	369.9	367.8
15°	754.2	748.3	718.5	669.6	599.0	493.6	374.6	295.9	249.6	236.0	241.1
17.5°	788.7	777.6	733.8	664.9	541.6	374.6	251.7	201.9	187.5	183.7	183.7
20°	821.0	805.7	744.9	644.5	442.2	258.1	186.6	174.7	172.2	169.6	170.1
22.5°	853.3	829.9	754.6	599.0	329.5	184.5	167.1	163.3	159.9	156.5	156.0
25°	884.7	852.4	758.5	514.9	224.5	158.6	152.6	147.5	140.7	136.9	136.0
27.5°	917.5	879.6	755.9	408.6	163.7	142.0	136.0	128.8	120.7	113.9	113.9
30°	980.4	931.5	747.0	293.8	137.7	125.0	117.3	105.9	96.9	90.1	89.7
32.5°	1066.3	999.1	716.4	206.6	122.4	110.1	98.6	85.9	76.5	71.4	71.4
35°	1142.8	1067.1	659.0	152.2	110.1	95.7	81.6	69.3	62.1	58.7	57.4
37.5°	1259.3	1166.6	579.9	123.7	98.2	82.9	68.4	57.0	51.0	48.5	48.5
40°	1434.0	1288.2	483.0	108.4	86.7	70.6	57.0	48.0	43.4	40.4	40.4
42.5°	1650.9	1437.0	384.8	97.4	76.1	60.8	47.6	40.8	36.6	34.4	34.0
45°	1923.8	1593.9	296.3	87.2	67.6	51.9	40.4	34.4	30.2	28.9	29.3
47.5°	2208.7	1732.1	229.6	78.2	58.7	43.8	34.4	29.8	26.8	25.1	25.1
50°	2451.9	1827.3	174.3	68.0	51.9	37.0	30.2	26.8	24.2	23.4	23.0
52.5°	2655.1	1854.9	133.5	59.1	45.5	31.9	26.8	24.2	22.1	20.8	20.8
55°	2828.1	1830.7	104.6	49.7	38.3	27.6	23.8	21.7	19.1	17.9	17.4
57.5°	2929.3	1752.9	79.9	41.2	31.0	23.0	20.8	18.3	15.3	13.2	13.2
60°	2980.3	1639.8	61.2	34.0	23.8	18.3	17.0	13.6	10.6	8.9	8.5
62.5°	2919.1	1489.7	46.3	26.8	17.9	13.6	11.5	9.8	6.8	5.1	5.1
63°	2881.3	1446.4	44.6	25.5	16.6	12.8	10.6	8.9	6.0	4.7	4.3
65°	2626.6	1257.2	36.6	20.4	13.2	8.9	7.2	6.4	4.3	2.1	1.7
67.5°	2085.8	961.7	28.9	15.3	9.4	6.4	4.3	3.8	1.3	0.0	0.0
70°	1410.2	621.1	22.5	11.1	6.4	3.8	2.1	1.7	0.4	0.0	0.0
72.5°	735.5	318.4	17.4	8.1	3.8	2.6	1.3	0.4	0.0	0.0	0.0
75°	260.2	108.4	12.8	5.1	2.6	1.3	0.4	0.0	0.0	0.0	0.0
77.5°	78.7	40.4	8.1	3.8	1.7	0.9	0.0	0.0	0.0	0.0	0.0
80°	27.6	14.9	4.7	2.6	1.3	0.4	0.0	0.0	0.0	0.0	0.0
82.5°	13.6	7.2	3.0	2.1	1.3	0.4	0.0	0.0	0.0	0.0	0.0
85°	7.7	4.7	2.6	2.1	1.3	0.9	0.0	0.0	0.0	0.0	0.0
87.5°	5.5	3.4	2.6	2.1	1.7	0.9	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)