

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: P532659

Luminaire Tested: **GALN-SA8A-735-U-T2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532659  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8A-735-U-T2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20292 lumens  
Efficiency: N/A  
Efficacy: 83.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1

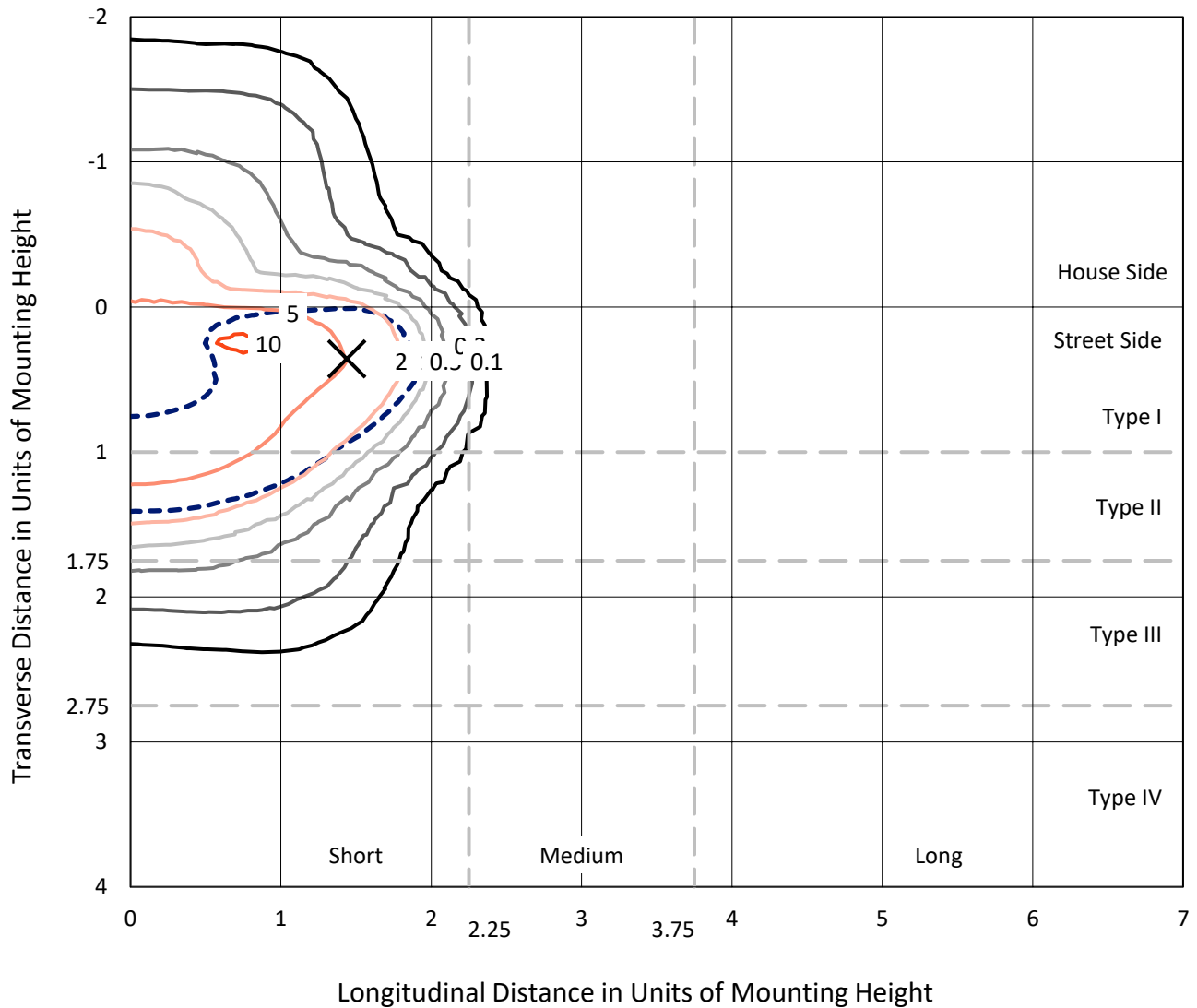
Input Watts (W): 244  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

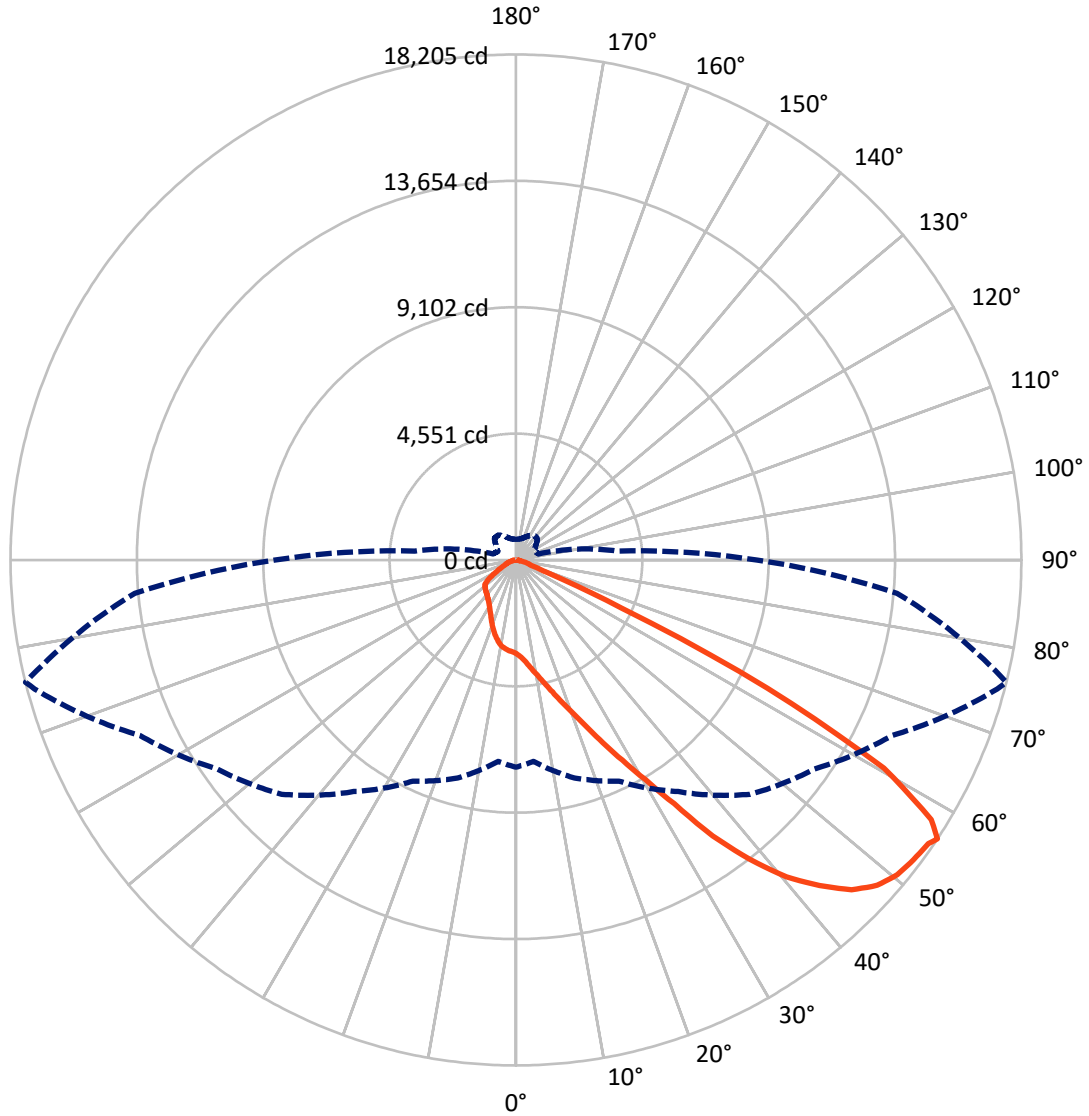
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3187.8	0.0	3187.8
	% Fixture	15.7	0.0	15.7
<b>Street Side</b>	Lumens	17104.2	0.0	17104.2
	% Fixture	84.3	0.0	84.3
<b>Total</b>	Lumens	20292.0	0.0	20292.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	340.3	1.7
10°-20°	1093.1	5.4
20°-30°	1982.1	9.8
30°-40°	3418.2	16.8
40°-50°	5553.0	27.4
50°-60°	5853.0	28.8
60°-70°	1788.3	8.8
70°-80°	229.2	1.1
80°-90°	34.8	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°	20292.0	100.0
0°-180°	20292.0	100.0

**Coefficient of Utilization**

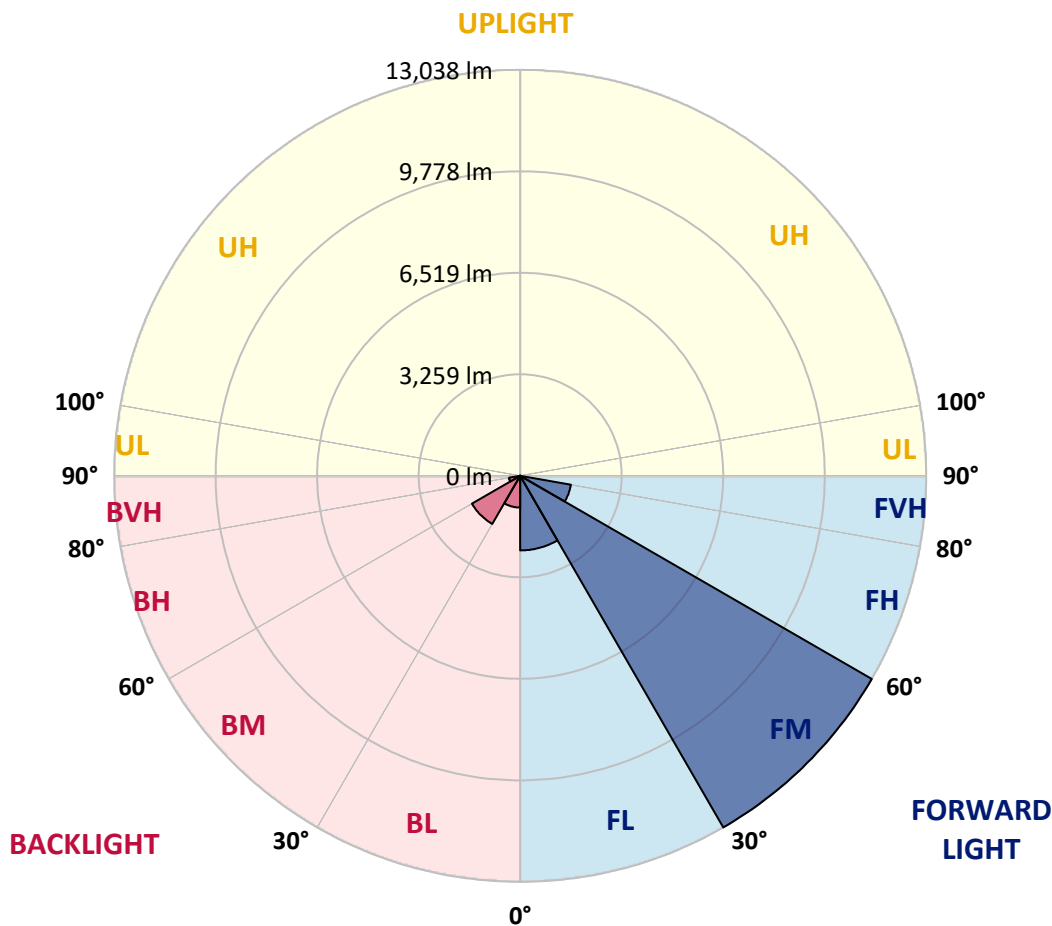


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2395.7	11.8			
FM (30°-60°)	13037.6	64.2			
FH (60°-80°)	1653.9	8.2			G1/1800
FVH (80°-90°)	17.1	0.1			G1/100
BL (0°-30°)	1019.8	5.0	B3/2500		
BM (30°-60°)	1786.6	8.8	B2/2500		
BH (60°-80°)	363.7	1.8	B1/500		G1/500
BVH (80°-90°)	17.8	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3377.6	3377.6	3377.6	3377.6	3377.6	3377.6	3377.6	3377.6	3377.6	3377.6	3377.6
2.5°	3890.1	3800.3	3804.0	3796.6	3785.3	3744.2	3620.8	3602.1	3519.8	3497.3	3422.5
5°	4357.6	4279.1	4324.0	4256.6	4193.1	4155.6	3953.7	3860.2	3729.2	3680.6	3575.9
7.5°	4649.4	4612.0	4597.0	4600.8	4540.9	4447.4	4357.6	4151.9	3976.1	3938.7	3718.0
10°	4791.5	4769.1	4791.5	4780.3	4806.5	4817.7	4660.6	4537.2	4279.1	4215.5	3871.4
12.5°	4825.2	4870.1	4888.8	4937.4	5001.0	5109.5	5098.2	4929.9	4585.8	4544.7	4107.0
15°	4907.5	4944.9	4926.2	5004.7	5124.4	5307.7	5405.0	5378.8	5008.5	4933.7	4380.1
17.5°	4982.3	4915.0	4978.6	5135.6	5255.3	5535.9	5771.5	5880.0	5468.6	5382.5	4630.7
20°	5083.3	5064.6	5053.4	5131.9	5345.1	5719.2	6186.7	6385.0	5984.7	5895.0	4989.8
22.5°	5390.0	5393.7	5386.3	5270.3	5423.7	5846.3	6549.5	7039.5	6601.9	6527.1	5397.5
25°	5794.0	5745.3	5707.9	5614.4	5595.7	5962.3	6916.1	7840.0	7342.5	7290.2	5838.9
27.5°	6220.4	6220.4	6108.2	6022.1	5902.4	6250.3	7252.7	8618.0	8236.5	8165.4	6224.1
30°	6684.2	6710.4	6695.4	6512.1	6437.3	6564.5	7596.9	9613.0	9261.4	9171.6	6860.0
32.5°	7368.7	7312.6	7376.2	7222.8	7002.1	7114.4	8139.2	10503.2	10593.0	10465.8	7694.1
35°	8273.9	8240.2	8199.1	7948.5	7686.6	7776.4	8906.0	11599.2	12265.0	12201.4	8535.7
37.5°	9085.6	9066.9	9033.2	8861.1	8558.2	8666.6	9777.6	12740.0	13895.8	13686.3	9725.2
40°	9938.4	10039.4	9930.9	9777.6	9500.8	9740.2	10802.4	13417.0	15268.6	15014.2	10634.1
42.5°	11094.2	11015.6	11064.3	10783.7	10634.1	10896.0	11831.1	14094.0	16334.6	16031.6	11599.2
45°	12324.8	12328.6	12197.6	12107.9	11718.9	12003.1	12463.2	14468.1	17183.7	16948.0	12328.6
47.5°	13114.0	13110.3	13252.4	13394.6	12994.4	12713.8	12893.4	14823.4	17621.3	17512.8	12594.1
50°	12990.6	13028.0	13211.3	13742.4	13951.9	13574.1	13297.3	14718.7	17819.5	17808.3	12822.3
52.5°	11299.9	11423.4	11730.1	12496.9	13551.7	14019.2	13720.0	14913.2	17916.8	17935.5	13162.7
55°	8603.1	8670.4	9253.9	10185.3	11352.3	12953.2	13551.7	15066.6	17991.6	18025.3	13574.1
56°	7462.2	7282.7	8124.3	8786.3	10181.5	11932.1	13125.3	14946.9	17946.7	18204.8	13779.8
57.5°	5633.1	5513.4	6194.2	7020.8	8363.7	10211.5	11801.1	14382.1	17643.7	17640.0	13484.4
60°	3426.3	3306.6	3830.2	4316.5	5068.3	6287.7	7974.7	11453.3	14916.9	15231.1	10918.4
62.5°	2038.5	2113.4	2629.5	2925.0	3168.2	3295.3	4125.7	6807.6	9953.4	10177.8	6774.0
65°	1357.8	1384.0	1773.0	2259.2	2367.7	1885.2	1679.5	2756.7	4316.5	4178.1	2794.1
67.5°	837.9	897.7	1189.5	1698.2	1881.5	1376.5	796.7	1028.6	1189.5	1189.5	807.9
70°	508.7	538.6	793.0	1155.8	1290.5	886.5	579.8	579.8	572.3	561.1	482.5
72.5°	243.1	261.8	404.0	594.7	606.0	467.6	448.9	490.0	478.8	475.0	400.2
75°	104.7	112.2	142.1	187.0	213.2	198.2	273.1	351.6	362.8	351.6	288.0
77.5°	33.7	37.4	52.4	67.3	71.1	86.0	116.0	145.9	168.3	157.1	142.1
80°	3.7	7.5	15.0	33.7	52.4	67.3	86.0	97.3	108.5	108.5	101.0
82.5°	3.7	3.7	15.0	29.9	48.6	63.6	82.3	93.5	108.5	112.2	104.7
85°	0.0	3.7	11.2	26.2	41.1	41.1	37.4	37.4	26.2	26.2	26.2
87.5°	0.0	0.0	3.7	3.7	3.7	7.5	7.5	7.5	7.5	7.5	7.5
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°	3377.6	3377.6	3377.6	3377.6	3377.6	3377.6	3377.6	3377.6	3377.6	3377.6	3377.6
2.5°	3407.6	3400.1	3299.1	3235.5	3201.8	3134.5	3093.4	3063.4	3041.0	3014.8	3018.5
5°	3452.4	3426.3	3257.9	3142.0	3003.6	2928.8	2865.2	2812.8	2779.2	2771.7	2756.7
7.5°	3579.6	3441.2	3186.9	2977.4	2801.6	2726.8	2670.7	2637.0	2652.0	2618.3	2644.5
10°	3676.9	3471.1	3100.8	2797.9	2622.1	2566.0	2536.0	2562.2	2599.6	2584.7	2566.0
12.5°	3796.6	3501.1	2962.4	2625.8	2461.2	2420.1	2472.4	2521.1	2595.9	2625.8	2588.4
15°	3931.2	3534.7	2786.6	2427.6	2322.8	2356.5	2446.3	2532.3	2607.1	2644.5	2666.9
17.5°	4095.8	3523.5	2614.6	2270.5	2191.9	2289.2	2397.6	2476.2	2588.4	2644.5	2629.5
20°	4249.2	3486.1	2423.8	2113.4	2117.1	2206.9	2296.6	2423.8	2483.7	2558.5	2532.3
22.5°	4395.0	3418.8	2225.6	2004.9	2004.9	2143.3	2188.2	2270.5	2322.8	2360.2	2356.5
25°	4600.8	3291.6	2061.0	1900.2	1945.0	2034.8	2072.2	2098.4	2076.0	2105.9	2109.6
27.5°	4746.6	3160.7	1926.3	1806.6	1888.9	1956.3	1945.0	1930.1	1877.7	1836.6	1862.7
30°	4903.7	3007.3	1810.4	1743.1	1787.9	1847.8	1802.9	1758.0	1675.7	1608.4	1612.1
32.5°	5128.2	2936.3	1709.4	1668.2	1728.1	1735.6	1686.9	1619.6	1537.3	1473.7	1470.0
35°	5547.1	2891.4	1623.4	1619.6	1630.8	1634.6	1586.0	1503.7	1470.0	1417.6	1436.3
37.5°	5966.0	2868.9	1563.5	1548.5	1544.8	1548.5	1492.4	1413.9	1477.5	1473.7	1481.2
40°	6500.9	2969.9	1477.5	1458.8	1462.5	1462.5	1391.5	1369.0	1481.2	1492.4	1496.2
42.5°	7043.3	3097.1	1421.4	1361.5	1376.5	1376.5	1339.1	1312.9	1391.5	1316.6	1305.4
45°	7514.6	3284.1	1361.5	1264.3	1301.7	1320.4	1309.2	1264.3	1215.6	1088.5	1088.5
47.5°	7667.9	3448.7	1290.5	1170.8	1200.7	1283.0	1249.3	1155.8	1069.8	965.0	957.6
50°	7937.3	3628.2	1234.4	1062.3	1125.9	1226.9	1193.2	1099.7	1002.4	927.6	931.4
52.5°	8214.0	3834.0	1129.6	935.1	1013.7	1182.0	1182.0	1077.3	927.6	875.3	867.8
55°	8629.2	3826.5	942.6	766.8	905.2	1114.7	1133.4	965.0	830.4	789.2	789.2
56°	8689.1	3654.4	849.1	718.2	856.6	1096.0	1099.7	935.1	793.0	748.1	748.1
57.5°	8240.2	3299.1	744.4	658.3	796.7	1062.3	1066.0	908.9	763.1	699.5	692.0
60°	6340.1	2233.1	620.9	587.3	721.9	957.6	976.3	826.6	669.5	620.9	617.2
62.5°	3579.6	1238.1	546.1	531.1	620.9	815.4	871.5	721.9	568.5	542.4	549.8
65°	1634.6	680.8	460.1	430.2	501.2	628.4	703.2	594.7	467.6	437.6	437.6
67.5°	598.5	463.8	392.7	340.4	351.6	407.7	456.3	385.3	310.5	265.6	276.8
70°	426.4	389.0	344.1	295.5	273.1	265.6	261.8	216.9	153.4	119.7	127.2
72.5°	344.1	321.7	288.0	250.6	213.2	179.5	153.4	112.2	71.1	48.6	44.9
75°	246.9	235.6	209.5	179.5	149.6	127.2	104.7	71.1	37.4	18.7	18.7
77.5°	127.2	127.2	123.4	112.2	93.5	74.8	59.8	41.1	22.4	7.5	7.5
80°	97.3	104.7	108.5	97.3	86.0	67.3	48.6	29.9	15.0	3.7	3.7
82.5°	93.5	108.5	116.0	101.0	86.0	63.6	48.6	29.9	15.0	3.7	3.7
85°	22.4	22.4	33.7	37.4	48.6	52.4	41.1	26.2	11.2	3.7	3.7
87.5°	7.5	7.5	7.5	7.5	7.5	7.5	3.7	3.7	3.7	3.7	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)