

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: P650753

Luminaire Tested: **GALN-SA2C-840-U-T2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P650753  
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-SA2C-840-U-T2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 4000K, 1050mA 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: 7013.9 lumens  
Efficiency: N/A  
Efficacy: 64.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

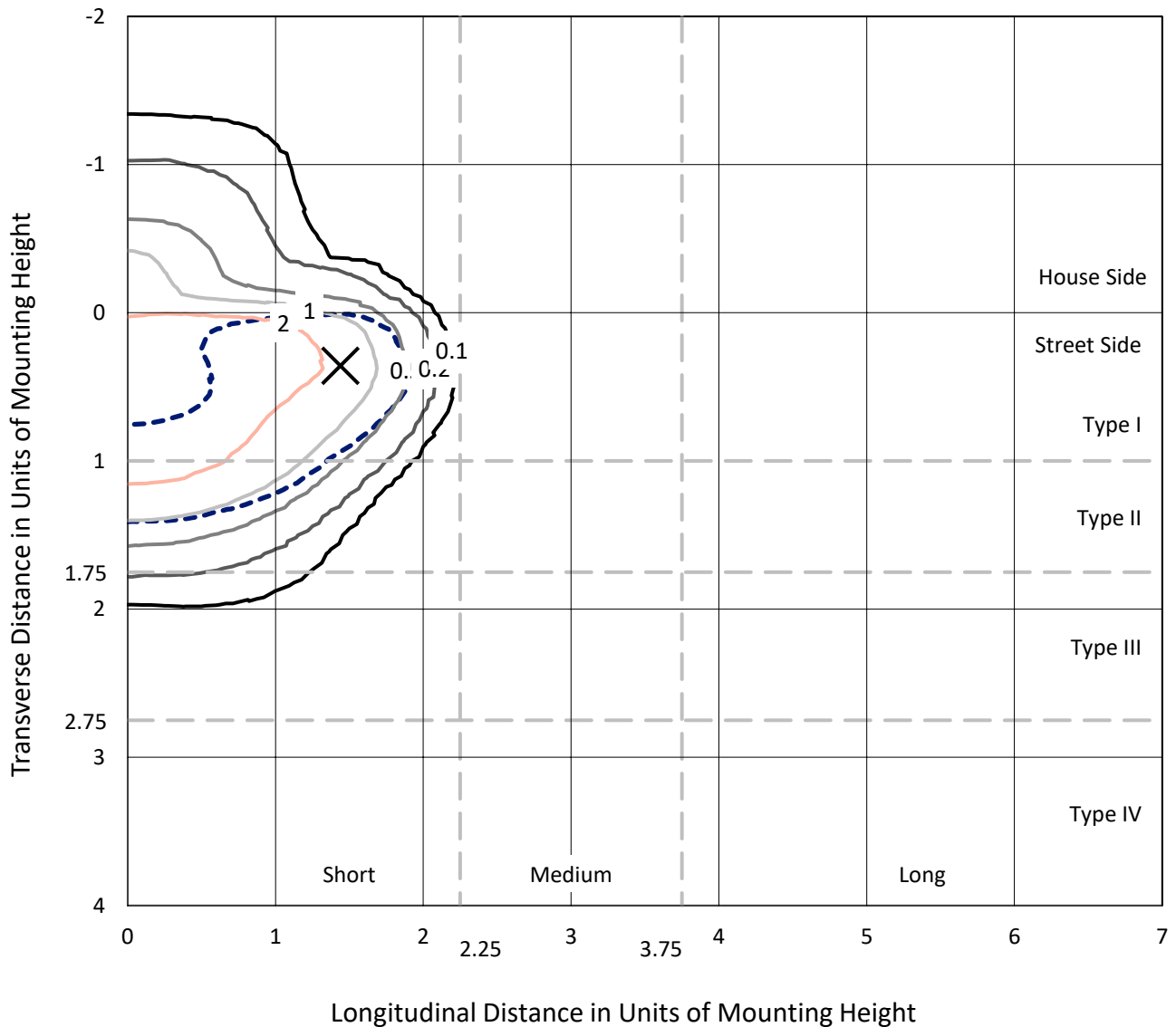
Input Watts (W): 108  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

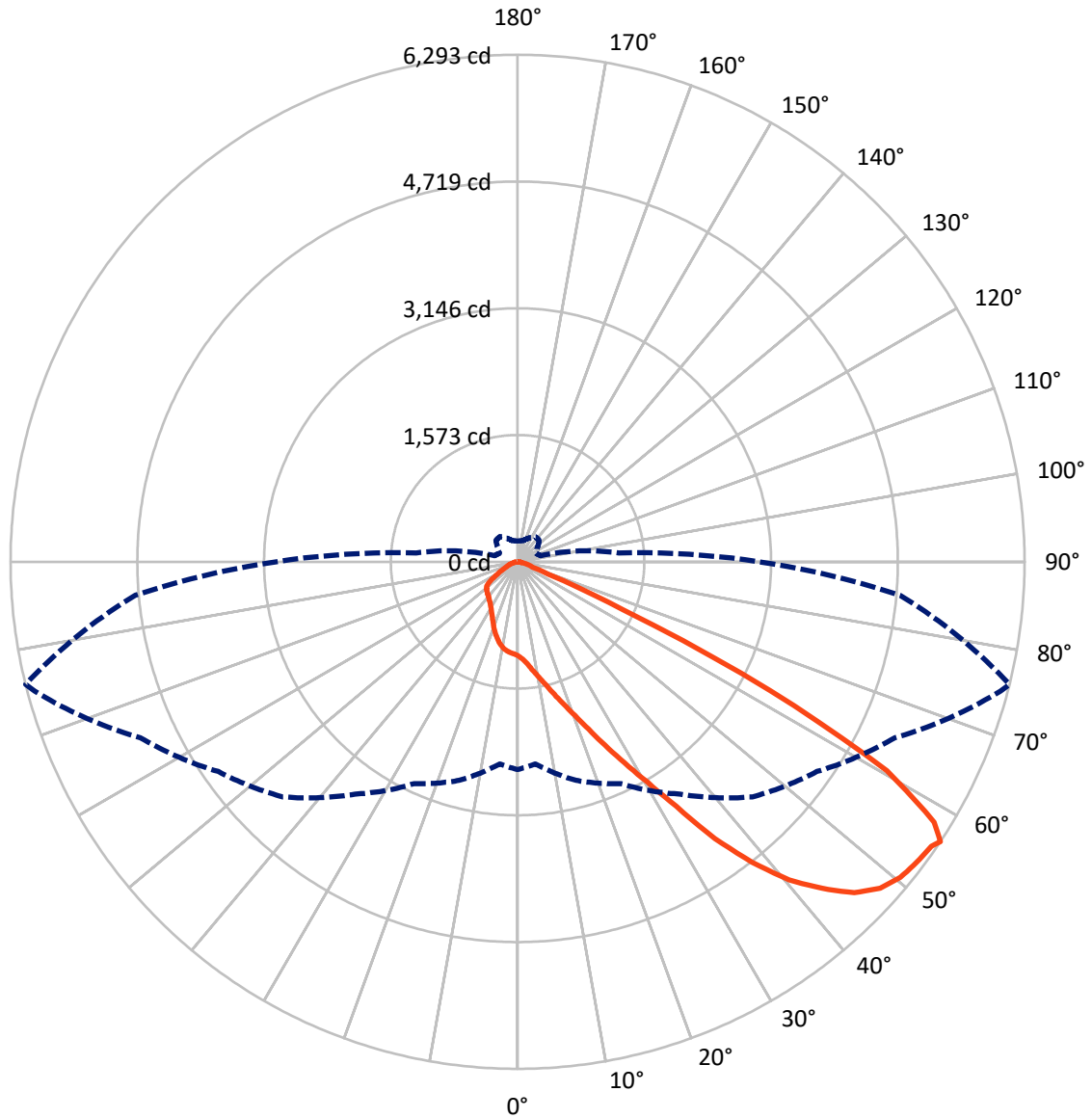
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 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	1101.9	0.0	1101.9
	% Fixture	15.7	0.0	15.7
<b>Street Side</b>	Lumens	5912.1	0.0	5912.1
	% Fixture	84.3	0.0	84.3
<b>Total</b>	Lumens	7013.9	0.0	7013.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	117.6	1.7
10°-20°	377.8	5.4
20°-30°	685.1	9.8
30°-40°	1181.5	16.8
40°-50°	1919.4	27.4
50°-60°	2023.1	28.8
60°-70°	618.1	8.8
70°-80°	79.2	1.1
80°-90°	12.0	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°	7013.9	100.0
0°-180°	7013.9	100.0

**Coefficient of Utilization**

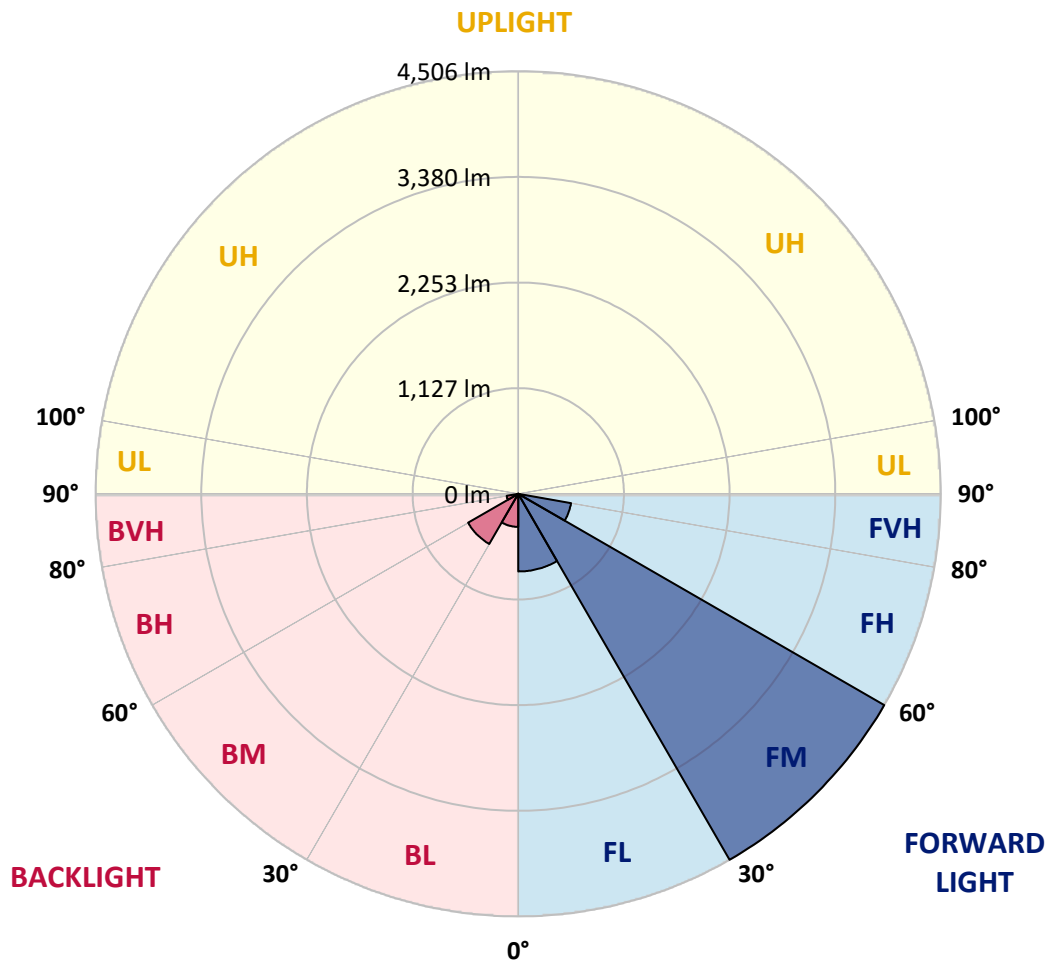


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	828.1	11.8			
FM (30°-60°)	4506.4	64.2			
FH (60°-80°)	571.7	8.2			G0/660
FVH (80°-90°)	5.9	0.1			G0/10
BL (0°-30°)	352.5	5.0	B1/500		
BM (30°-60°)	617.5	8.8	B1/1000		
BH (60°-80°)	125.7	1.8	B1/500		G1/500
BVH (80°-90°)	6.1	0.1			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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1167.5	1167.5	1167.5	1167.5	1167.5	1167.5	1167.5	1167.5	1167.5	1167.5	1167.5
2.5°	1344.6	1313.6	1314.9	1312.3	1308.4	1294.2	1251.5	1245.0	1216.6	1208.9	1183.0
5°	1506.2	1479.1	1494.5	1471.3	1449.3	1436.4	1366.6	1334.2	1289.0	1272.2	1236.0
7.5°	1607.1	1594.1	1589.0	1590.2	1569.6	1537.3	1506.2	1435.1	1374.4	1361.4	1285.1
10°	1656.2	1648.4	1656.2	1652.3	1661.4	1665.3	1610.9	1568.3	1479.1	1457.1	1338.1
12.5°	1667.9	1683.3	1689.8	1706.6	1728.6	1766.1	1762.2	1704.0	1585.1	1570.9	1419.6
15°	1696.3	1709.2	1702.8	1729.9	1771.2	1834.6	1868.2	1859.2	1731.2	1705.3	1514.0
17.5°	1722.1	1698.8	1720.9	1775.1	1816.5	1913.4	1994.9	2032.4	1890.2	1860.5	1600.6
20°	1757.0	1750.5	1746.7	1773.8	1847.5	1976.9	2138.4	2207.0	2068.6	2037.6	1724.7
22.5°	1863.1	1864.3	1861.7	1821.7	1874.7	2020.8	2263.9	2433.2	2282.0	2256.1	1865.7
25°	2002.7	1985.9	1973.0	1940.6	1934.1	2060.9	2390.5	2709.9	2538.0	2519.8	2018.2
27.5°	2150.1	2150.1	2111.3	2081.6	2040.2	2160.4	2506.9	2978.8	2847.0	2822.4	2151.4
30°	2310.4	2319.5	2314.3	2250.9	2225.0	2269.0	2625.9	3322.7	3201.2	3170.1	2371.2
32.5°	2547.0	2527.6	2549.6	2496.6	2420.3	2459.1	2813.3	3630.4	3661.5	3617.5	2659.5
35°	2859.9	2848.2	2834.0	2747.4	2656.9	2687.9	3078.4	4009.2	4239.4	4217.4	2950.4
37.5°	3140.5	3134.0	3122.3	3062.8	2958.1	2995.6	3379.6	4403.6	4803.1	4730.7	3361.5
40°	3435.2	3470.1	3432.6	3379.6	3283.9	3366.7	3733.9	4637.6	5277.6	5189.6	3675.7
42.5°	3834.7	3807.5	3824.4	3727.4	3675.7	3766.2	4089.4	4871.6	5646.1	5541.3	4009.2
45°	4260.1	4261.3	4216.1	4185.1	4050.6	4148.9	4307.9	5000.9	5939.6	5858.1	4261.3
47.5°	4532.9	4531.6	4580.7	4629.9	4491.5	4394.6	4456.6	5123.7	6090.8	6053.3	4353.2
50°	4490.2	4503.1	4566.5	4750.1	4822.5	4691.9	4596.2	5087.5	6159.3	6155.4	4432.1
52.5°	3905.9	3948.5	4054.5	4319.5	4684.1	4845.8	4742.3	5154.7	6193.0	6199.4	4549.7
55°	2973.7	2996.9	3198.6	3520.5	3923.9	4477.3	4684.1	5207.7	6218.8	6230.5	4691.9
56°	2579.3	2517.3	2808.2	3037.0	3519.2	4124.3	4536.8	5166.4	6203.3	6292.5	4763.0
57.5°	1947.1	1905.7	2141.0	2426.8	2890.9	3529.6	4079.1	4971.2	6098.6	6097.2	4660.9
60°	1184.3	1142.9	1323.9	1492.0	1751.9	2173.3	2756.5	3958.8	5156.1	5264.7	3774.0
62.5°	704.6	730.5	908.9	1011.1	1095.1	1139.1	1426.1	2353.0	3440.4	3518.0	2341.4
65°	469.3	478.4	612.8	780.9	818.4	651.6	580.5	952.9	1492.0	1444.2	965.8
67.5°	289.6	310.3	411.2	586.9	650.3	475.8	275.4	355.6	411.2	411.2	279.3
70°	175.9	186.2	274.1	399.5	446.1	306.4	200.4	200.4	197.8	193.9	166.8
72.5°	84.0	90.5	139.6	205.5	209.4	161.6	155.2	169.4	165.5	164.2	138.3
75°	36.2	38.8	49.1	64.7	73.7	68.5	94.4	121.5	125.4	121.5	99.6
77.5°	11.6	13.0	18.1	23.3	24.6	29.8	40.1	50.5	58.2	54.3	49.1
80°	1.3	2.6	5.1	11.6	18.1	23.3	29.8	33.6	37.5	37.5	34.9
82.5°	1.3	1.3	5.1	10.3	16.8	22.0	28.4	32.3	37.5	38.8	36.2
85°	0.0	1.3	3.9	9.1	14.2	14.2	13.0	13.0	9.1	9.1	9.1
87.5°	0.0	0.0	1.3	1.3	1.3	2.6	2.6	2.6	2.6	2.6	2.6
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°	1167.5	1167.5	1167.5	1167.5	1167.5	1167.5	1167.5	1167.5	1167.5	1167.5	1167.5
2.5°	1177.8	1175.2	1140.3	1118.4	1106.8	1083.5	1069.2	1058.9	1051.1	1042.1	1043.3
5°	1193.4	1184.3	1126.1	1086.1	1038.2	1012.3	990.4	972.3	960.6	958.1	952.9
7.5°	1237.3	1189.4	1101.5	1029.1	968.4	942.5	923.2	911.5	916.7	905.0	914.1
10°	1270.9	1199.8	1071.8	967.1	906.3	886.9	876.6	885.7	898.5	893.4	886.9
12.5°	1312.3	1210.1	1024.0	907.6	850.8	836.5	854.6	871.4	897.3	907.6	894.7
15°	1358.8	1221.8	963.2	839.1	802.9	814.5	845.5	875.3	901.1	914.1	921.8
17.5°	1415.7	1217.9	903.7	784.8	757.7	791.2	828.7	855.9	894.7	914.1	908.9
20°	1468.7	1205.0	837.8	730.5	731.8	762.8	793.8	837.8	858.5	884.3	875.3
22.5°	1519.2	1181.7	769.3	693.0	693.0	740.8	756.3	784.8	802.9	815.9	814.5
25°	1590.2	1137.7	712.4	656.8	672.3	703.3	716.3	725.3	717.5	727.9	729.2
27.5°	1640.7	1092.5	665.8	624.4	652.9	676.2	672.3	667.2	649.0	634.8	643.9
30°	1695.0	1039.5	625.8	602.5	618.0	638.7	623.2	607.6	579.2	556.0	557.2
32.5°	1772.6	1014.9	590.9	576.6	597.3	599.9	583.1	559.9	531.3	509.4	508.1
35°	1917.4	999.4	561.1	559.9	563.7	565.0	548.2	519.7	508.1	490.0	496.4
37.5°	2062.1	991.6	540.4	535.3	534.0	535.3	515.9	488.7	510.7	509.4	512.0
40°	2247.1	1026.5	510.7	504.3	505.5	505.5	481.0	473.2	512.0	515.9	517.1
42.5°	2434.5	1070.5	491.3	470.6	475.8	475.8	462.9	453.8	481.0	455.1	451.2
45°	2597.4	1135.2	470.6	437.0	449.9	456.4	452.5	437.0	420.2	376.3	376.3
47.5°	2650.4	1192.0	446.1	404.7	415.0	443.5	431.9	399.5	369.8	333.5	331.0
50°	2743.5	1254.1	426.6	367.2	389.1	424.0	412.4	380.1	346.5	320.7	321.9
52.5°	2839.2	1325.2	390.5	323.2	350.4	408.6	408.6	372.3	320.7	302.5	300.0
55°	2982.7	1322.6	325.8	265.1	312.9	385.3	391.7	333.5	287.0	272.8	272.8
56°	3003.4	1263.2	293.5	248.3	296.0	378.8	380.1	323.2	274.1	258.6	258.6
57.5°	2848.2	1140.3	257.3	227.6	275.4	367.2	368.4	314.2	263.7	241.8	239.2
60°	2191.5	771.9	214.6	203.0	249.5	331.0	337.4	285.7	231.4	214.6	213.4
62.5°	1237.3	428.0	188.7	183.6	214.6	281.8	301.2	249.5	196.5	187.5	190.1
65°	565.0	235.3	159.0	148.7	173.2	217.2	243.0	205.5	161.6	151.3	151.3
67.5°	206.9	160.3	135.7	117.7	121.5	141.0	157.8	133.1	107.3	91.8	95.7
70°	147.4	134.5	118.9	102.1	94.4	91.8	90.5	75.0	53.0	41.4	44.0
72.5°	118.9	111.2	99.6	86.6	73.7	62.1	53.0	38.8	24.6	16.8	15.5
75°	85.4	81.5	72.4	62.1	51.7	44.0	36.2	24.6	13.0	6.5	6.5
77.5°	44.0	44.0	42.6	38.8	32.3	25.8	20.7	14.2	7.7	2.6	2.6
80°	33.6	36.2	37.5	33.6	29.8	23.3	16.8	10.3	5.1	1.3	1.3
82.5°	32.3	37.5	40.1	34.9	29.8	22.0	16.8	10.3	5.1	1.3	1.3
85°	7.7	7.7	11.6	13.0	16.8	18.1	14.2	9.1	3.9	1.3	1.3
87.5°	2.6	2.6	2.6	2.6	2.6	2.6	1.3	1.3	1.3	1.3	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)