

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: P454386

Luminaire Tested: **GALN-SA5C-727-U-T2R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454386  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5C-727-U-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30008 lumens  
Efficiency: N/A  
Efficacy: 111.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

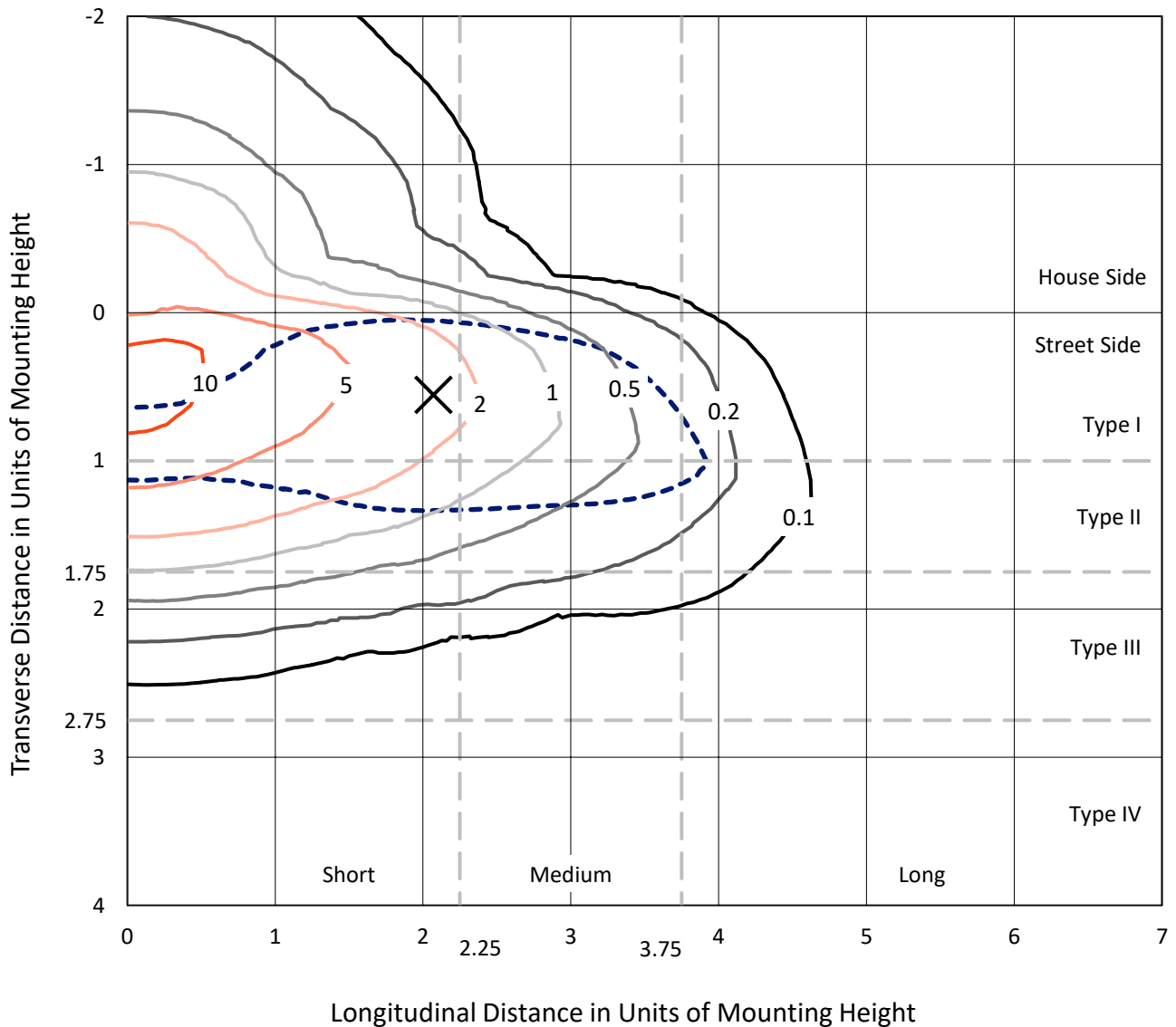
Input Watts (W): 269  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

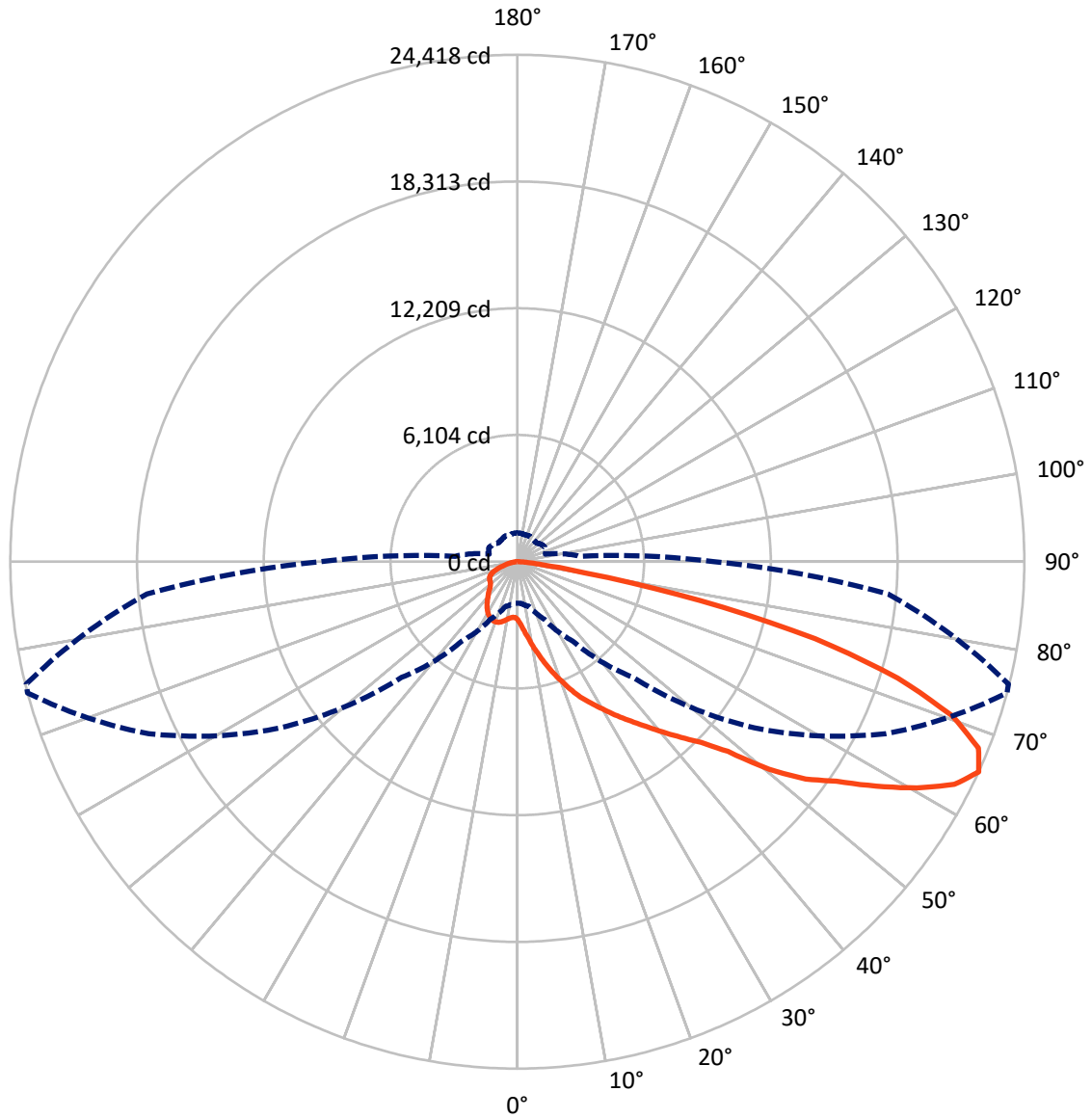
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5044.7	0.0	5044.7
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	24963.3	0.0	24963.3
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	30008.0	0.0	30008.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	338.8	1.1
10°-20°	1326.8	4.4
20°-30°	2563.0	8.5
30°-40°	4163.1	13.9
40°-50°	5726.7	19.1
50°-60°	6761.2	22.5
60°-70°	5924.0	19.7
70°-80°	2828.1	9.4
80°-90°	376.3	1.3
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°	30008.0	100.0
0°-180°	30008.0	100.0

**Coefficient of Utilization**



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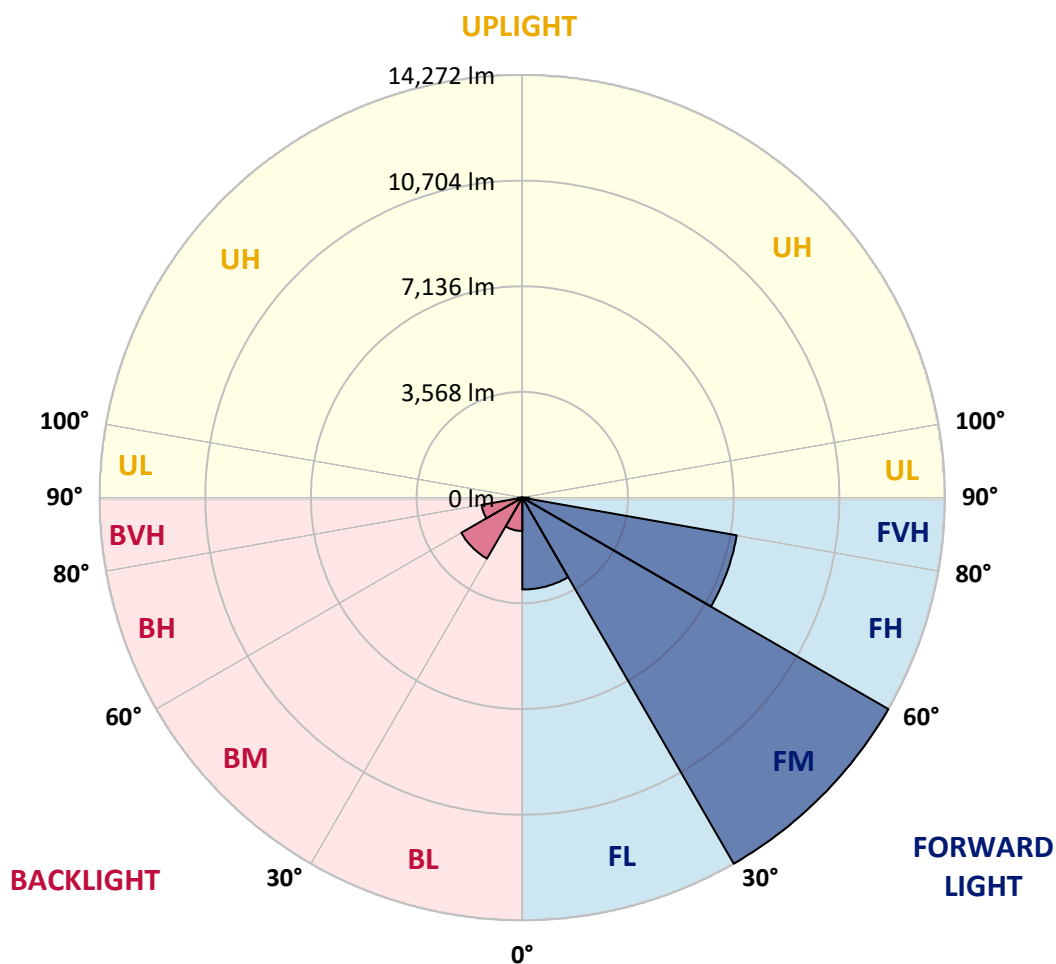
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3102.3	10.3			
FM	(30°-60°)	14272.4	47.6			
FH	(60°-80°)	7353.3	24.5			G3/7500
FVH	(80°-90°)	235.2	0.8			G3/500
BL	(0°-30°)	1126.2	3.8	B3/2500		
BM	(30°-60°)	2378.6	7.9	B2/2500		
BH	(60°-80°)	1398.8	4.7	B3/2500		G3/2500
BVH	(80°-90°)	141.1	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2788.1	2788.1	2788.1	2788.1	2788.1	2788.1	2788.1	2788.1	2788.1	2788.1	2788.1
2.5°	3704.5	3680.1	3654.0	3582.4	3505.9	3419.6	3295.9	3177.1	3019.2	3014.4	2897.2
5°	4731.5	4715.2	4599.7	4532.9	4355.5	4119.5	3919.3	3608.4	3320.4	3286.2	3058.3
7.5°	5675.5	5612.1	5568.1	5447.7	5271.9	4969.1	4581.8	4161.8	3680.1	3634.5	3256.9
10°	6386.8	6380.3	6357.5	6253.3	6121.5	5820.4	5390.7	4788.5	4135.8	4046.3	3497.8
12.5°	6919.0	6923.9	6920.7	6919.0	6824.6	6569.1	6103.6	5468.8	4596.4	4532.9	3776.1
15°	7269.0	7317.8	7337.3	7418.7	7426.9	7256.0	6855.6	6126.4	5115.6	5021.2	4075.6
17.5°	7500.1	7524.5	7615.7	7754.0	7866.3	7835.4	7478.9	6735.1	5646.2	5488.4	4386.5
20°	7721.5	7763.8	7833.8	8022.6	8221.1	8312.3	8061.6	7358.5	6172.0	6071.0	4729.9
22.5°	8182.1	8242.3	8266.7	8362.7	8532.0	8693.1	8579.2	7955.8	6748.1	6611.4	5094.5
25°	8961.7	9025.2	8956.8	8934.0	8989.4	9069.1	9044.7	8519.0	7291.8	7096.4	5439.5
27.5°	9977.3	9985.5	9852.0	9725.1	9588.3	9547.7	9472.8	9018.7	7763.8	7601.0	5786.2
30°	11067.9	11028.8	10807.4	10577.9	10346.8	10118.9	9904.1	9500.4	8289.5	8102.3	6126.4
32.5°	12080.2	12059.1	11813.3	11456.9	11066.2	10851.4	10416.8	9987.1	8852.7	8672.0	6476.3
35°	12838.7	12869.6	12599.4	12210.4	11784.0	11593.6	11045.1	10498.2	9435.3	9238.4	6857.2
37.5°	13377.5	13361.2	13121.9	12785.0	12410.6	12244.6	11779.1	11056.5	10062.0	9873.2	7273.9
40°	13569.5	13559.7	13382.3	13136.6	12898.9	12840.3	12547.4	11658.7	10779.8	10558.4	7775.2
42.5°	13447.4	13468.6	13351.4	13284.7	13240.7	13283.1	13310.7	12448.1	11562.7	11359.2	8318.8
45°	13073.1	13061.7	13045.4	13154.5	13401.9	13680.2	14065.9	13193.5	12413.9	12251.1	9048.0
47.5°	12404.1	12485.5	12526.2	12827.3	13367.7	14026.9	14935.1	14192.9	13649.3	13507.7	10159.6
50°	11468.2	11533.4	11774.2	12309.7	13115.4	14157.1	15784.7	15827.0	15709.8	15444.5	11367.3
52.5°	10006.6	10107.6	10604.0	11585.4	12597.8	14103.4	16299.0	17228.4	17383.0	17184.5	12557.1
55°	8370.9	8512.5	9036.6	10324.0	11884.9	13810.4	16653.9	18040.6	18657.5	18473.5	13703.0
57.5°	6769.3	6919.0	7457.8	8704.5	10641.4	13162.6	16886.6	18945.6	20392.5	20153.3	15128.8
60°	5073.3	5229.6	5691.8	6976.0	8870.6	11896.3	16728.7	19730.1	22125.9	22023.4	16556.2
62.5°	3273.2	3445.7	3847.7	4910.5	6818.1	10166.1	15884.0	20163.0	23626.6	23502.9	17597.9
65°	1993.8	2013.4	2234.7	3048.5	4666.4	7871.2	13952.0	19588.5	24417.6	24380.2	17915.3
67.5°	1289.1	1320.0	1420.9	1826.2	2797.9	5467.2	11155.7	17692.3	23955.4	23942.4	17259.3
70°	1088.9	1098.6	1144.2	1232.1	1626.0	3315.5	7833.8	14669.8	22199.2	22199.2	15682.2
72.5°	973.3	986.3	1002.6	1030.3	1160.5	1878.3	4674.5	11419.4	19166.9	19293.9	13348.2
75°	883.8	880.5	890.3	895.2	989.6	1227.2	2417.0	8445.7	14827.7	14573.8	9666.5
77.5°	756.8	761.7	756.8	778.0	874.0	934.3	1227.2	5667.4	8986.1	8657.3	4852.0
80°	621.8	629.9	638.0	651.1	747.1	709.6	737.3	2583.0	3323.6	3253.6	1499.0
82.5°	467.1	478.5	491.5	522.5	587.6	468.8	465.5	1103.5	1199.6	1098.6	551.8
85°	188.8	223.0	336.9	367.8	369.5	257.2	286.5	460.6	489.9	478.5	216.5
87.5°	43.9	52.1	109.1	164.4	151.4	96.0	105.8	149.7	170.9	157.9	73.2
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°	2788.1	2788.1	2788.1	2788.1	2788.1	2788.1	2788.1	2788.1	2788.1	2788.1	2788.1
2.5°	2843.5	2786.5	2688.8	2614.0	2560.3	2513.1	2483.8	2465.9	2459.3	2457.7	2459.3
5°	2939.5	2838.6	2684.0	2586.3	2532.6	2501.7	2483.8	2482.1	2483.8	2485.4	2480.5
7.5°	3071.3	2926.5	2724.6	2633.5	2592.8	2570.0	2561.9	2558.6	2560.3	2558.6	2558.6
10°	3247.1	3048.5	2804.4	2710.0	2675.8	2649.8	2636.8	2628.6	2622.1	2615.6	2612.3
12.5°	3440.8	3183.6	2890.7	2799.5	2750.7	2710.0	2680.7	2659.5	2644.9	2630.2	2627.0
15°	3657.3	3326.9	2986.7	2859.7	2789.7	2729.5	2679.1	2644.9	2618.8	2597.7	2596.1
17.5°	3864.0	3462.0	3051.8	2887.4	2784.9	2700.2	2633.5	2586.3	2553.7	2526.1	2522.8
20°	4085.3	3590.5	3081.1	2869.5	2736.0	2633.5	2545.6	2488.6	2451.2	2420.3	2415.4
22.5°	4308.3	3699.6	3077.8	2812.5	2651.4	2531.0	2438.2	2378.0	2334.0	2303.1	2291.7
25°	4521.5	3787.5	3037.1	2721.4	2534.2	2408.9	2314.5	2259.1	2220.1	2182.6	2182.6
27.5°	4713.6	3839.6	2960.7	2610.7	2413.8	2281.9	2207.1	2156.6	2120.8	2096.4	2081.7
30°	4902.4	3864.0	2856.5	2470.7	2286.8	2174.5	2114.3	2085.0	2052.4	2024.8	2021.5
32.5°	5071.7	3859.1	2726.3	2334.0	2166.4	2086.6	2062.2	2039.4	2005.2	1966.2	1956.4
35°	5236.1	3826.5	2571.6	2184.3	2065.5	2034.5	2041.0	2008.5	1946.6	1897.8	1889.7
37.5°	5415.1	3768.0	2402.4	2062.2	1980.8	2010.1	2026.4	1954.8	1853.9	1777.4	1759.5
40°	5621.8	3701.2	2226.6	1940.1	1914.1	1987.3	1987.3	1855.5	1717.1	1669.9	1656.9
42.5°	5864.3	3645.9	2080.1	1837.6	1858.7	1932.0	1923.9	1723.7	1666.7	1642.3	1635.8
45°	6248.5	3626.3	1928.7	1748.1	1813.2	1866.9	1800.2	1678.1	1645.5	1626.0	1619.5
47.5°	6855.6	3649.1	1795.3	1681.3	1761.1	1801.8	1661.8	1647.2	1624.4	1596.7	1593.4
50°	7418.7	3628.0	1700.9	1643.9	1715.5	1723.7	1604.8	1609.7	1596.7	1565.8	1559.3
52.5°	7879.3	3561.2	1640.6	1624.4	1676.5	1586.9	1551.1	1569.0	1564.1	1525.1	1518.6
55°	8385.5	3520.6	1611.3	1624.4	1650.4	1468.1	1500.7	1526.7	1520.2	1492.5	1490.9
57.5°	8999.1	3528.7	1590.2	1629.3	1624.4	1407.9	1450.2	1481.1	1479.5	1471.4	1471.4
60°	9627.4	3531.9	1557.6	1627.6	1593.4	1360.7	1398.1	1442.1	1445.3	1450.2	1450.2
62.5°	9835.7	3390.3	1494.2	1598.3	1525.1	1315.1	1349.3	1409.5	1406.3	1419.3	1420.9
65°	9446.7	2998.1	1399.8	1531.6	1437.2	1282.6	1311.9	1367.2	1349.3	1383.5	1390.0
67.5°	8598.7	2480.5	1253.3	1411.2	1339.5	1248.4	1287.5	1308.6	1276.1	1342.8	1344.4
70°	7431.7	1936.9	1067.7	1240.3	1228.9	1212.6	1267.9	1235.4	1189.8	1271.2	1254.9
72.5°	6214.3	1479.5	852.9	1014.0	1080.7	1158.9	1233.7	1141.0	1077.5	1101.9	1072.6
75°	4668.0	1093.8	685.2	794.3	900.1	1082.4	1202.8	1027.0	929.4	906.6	900.1
77.5°	2379.6	714.5	512.7	594.1	675.5	978.2	1160.5	893.6	769.9	734.1	717.8
80°	849.6	444.3	361.3	410.2	455.7	841.5	1014.0	738.9	597.3	590.8	597.3
82.5°	393.9	286.5	242.5	268.6	270.2	561.5	773.1	551.8	454.1	690.1	582.7
85°	169.3	143.2	136.7	133.5	123.7	250.7	434.6	296.2	462.2	206.7	190.4
87.5°	50.5	57.0	50.5	37.4	27.7	27.7	43.9	16.3	11.4	8.1	8.1
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)