

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: P647511

Luminaire Tested: **GALN-SA6D-835-U-T2R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647511  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6D-835-U-T2R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23755.4 lumens  
Efficiency: N/A  
Efficacy: 64.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G1

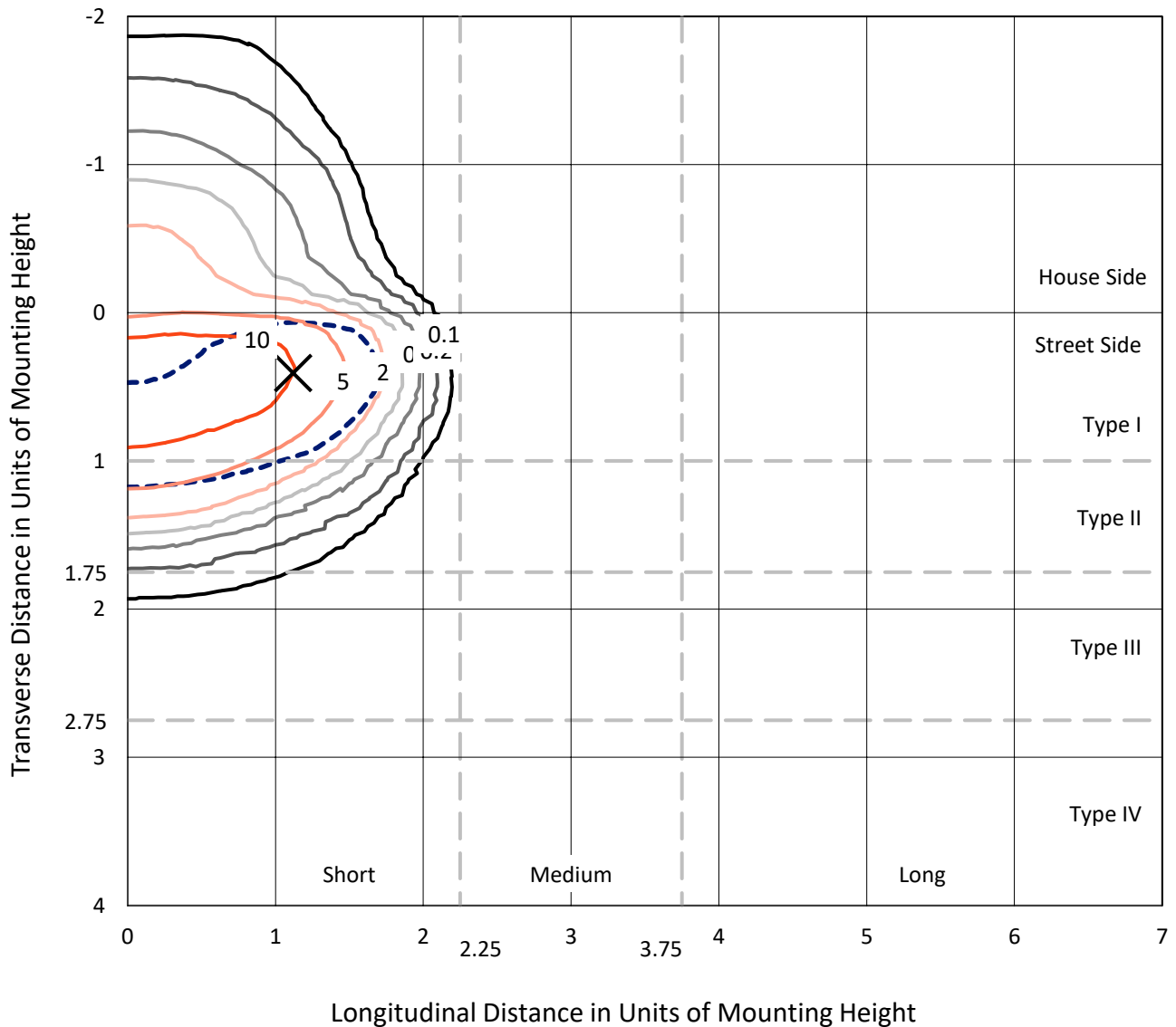
Input Watts (W): 368  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

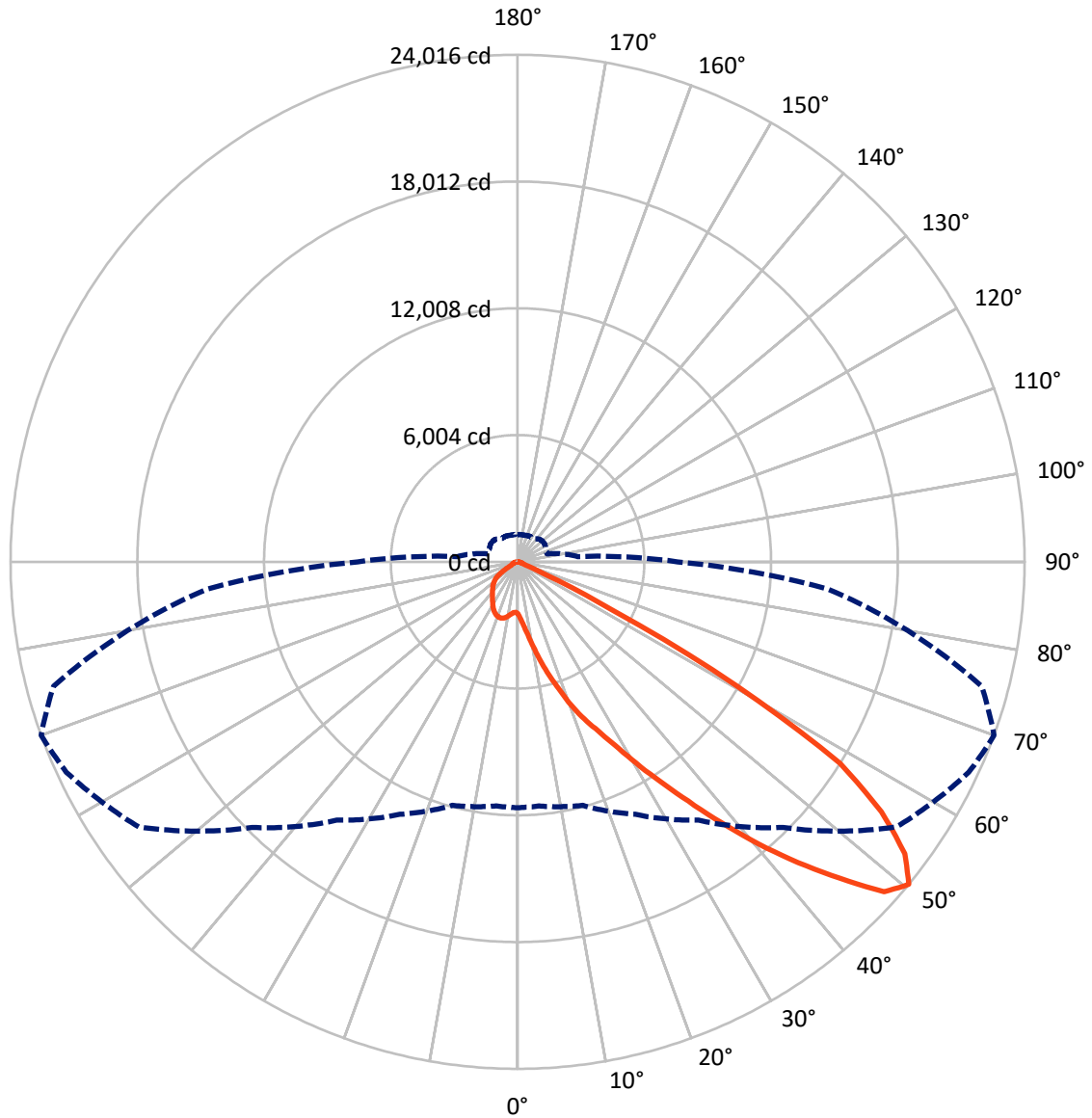
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.1 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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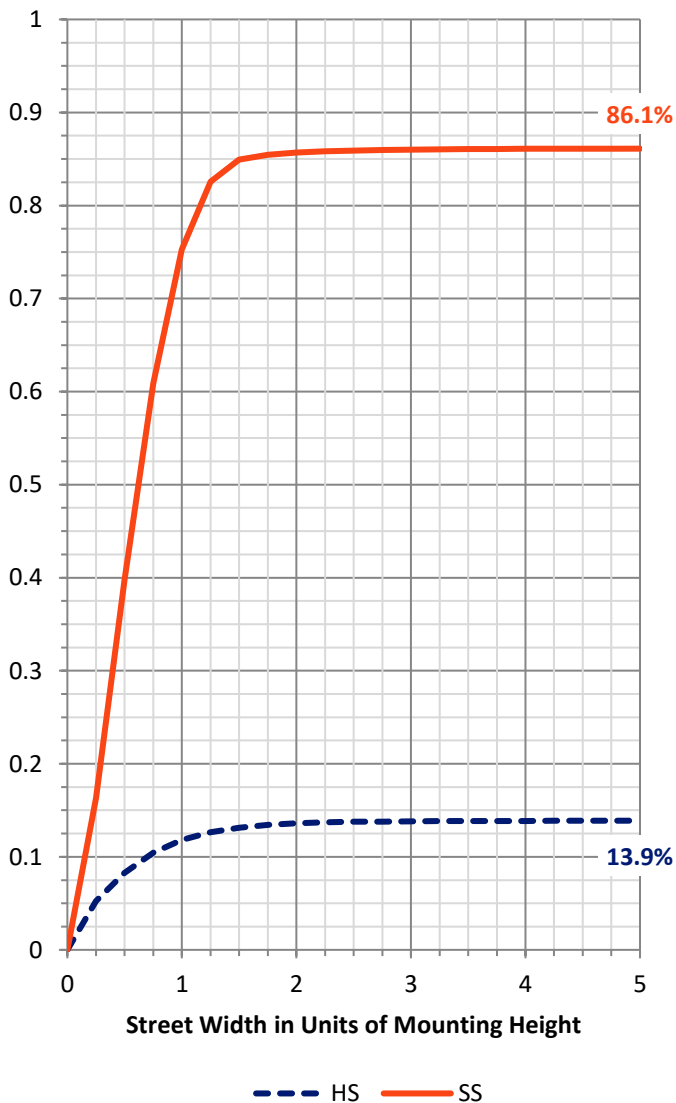
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3317.6	0.0	3317.6
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	20437.8	0.0	20437.8
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	23755.4	0.0	23755.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	320.0	1.3
10°-20°	1384.1	5.8
20°-30°	2903.5	12.2
30°-40°	5004.7	21.1
40°-50°	7314.3	30.8
50°-60°	5696.7	24.0
60°-70°	965.2	4.1
70°-80°	132.6	0.6
80°-90°	34.3	0.1
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°	23755.4	100.0
0°-180°	23755.4	100.0

**Coefficient of Utilization**



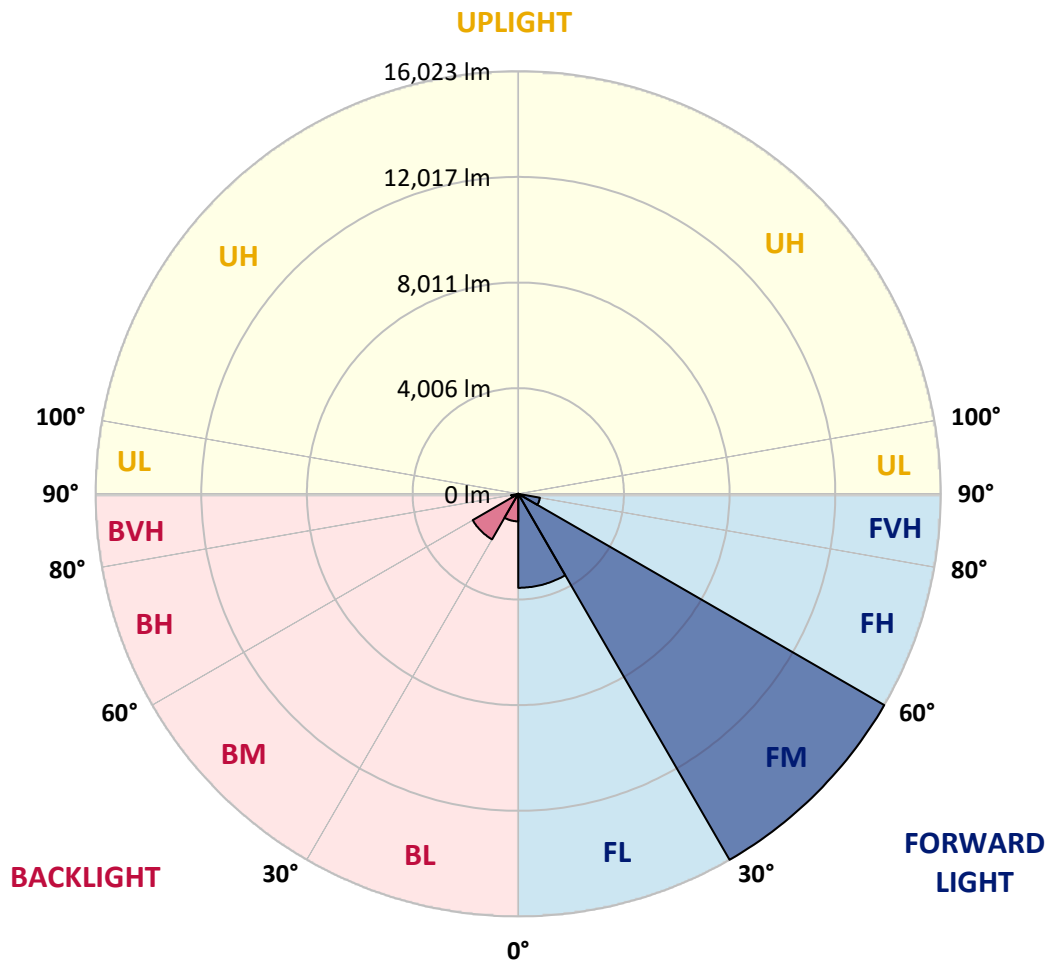
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3563.6	15.0			
FM (30°-60°)	16022.6	67.4			
FH (60°-80°)	835.7	3.5			G1/1800
FVH (80°-90°)	15.9	0.1			G1/100
BL (0°-30°)	1044.0	4.4	B3/2500		
BM (30°-60°)	1993.1	8.4	B2/2500		
BH (60°-80°)	262.1	1.1	B1/500		G1/500
BVH (80°-90°)	18.5	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 I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	2460.6	2460.6	2460.6	2460.6	2460.6	2460.6	2460.6	2460.6	2460.6	2460.6	2460.6
2.5°	3222.2	3198.8	3148.0	3054.2	3015.2	2921.5	2866.8	2761.3	2694.9	2620.7	2538.7
5°	4538.4	4417.4	4343.1	4237.7	3929.2	3737.7	3421.4	3151.9	3026.9	2890.2	2702.8
7.5°	5897.6	5819.5	5717.9	5491.4	5280.6	4882.2	4339.2	3745.6	3491.7	3257.4	2886.3
10°	7022.5	6803.7	6792.1	6624.1	6393.7	5917.1	5264.9	4526.7	4073.6	3730.0	3148.0
12.5°	7807.5	7608.3	7698.1	7678.6	7463.8	7026.3	6272.5	5296.1	4823.5	4288.5	3417.5
15°	8522.3	8440.3	8412.9	8389.5	8303.6	7979.4	7303.7	6233.5	5550.0	4905.6	3722.1
17.5°	9221.4	9010.5	9112.0	9131.6	9123.8	8830.8	8198.1	7124.0	6319.4	5557.8	4042.4
20°	9842.4	9861.9	9725.2	9697.8	9674.4	9662.7	9045.6	8006.7	7264.6	6241.3	4460.3
22.5°	10639.2	10502.5	10623.5	10545.4	10393.1	10299.3	9826.7	8787.8	8084.8	7065.4	4886.1
25°	11580.4	11689.8	11404.6	11373.4	11205.4	10881.3	10455.6	9662.7	8873.7	7830.9	5347.0
27.5°	12740.4	12549.1	12474.8	12303.0	11998.3	11861.7	11361.7	10564.9	9826.7	8635.6	5792.2
30°	13736.4	13685.6	13314.5	13111.5	12845.9	12842.0	12142.8	11787.4	11068.8	9897.0	6405.3
32.5°	14548.8	14326.2	14189.4	14048.8	13834.0	13892.6	13302.9	13115.3	12392.8	11068.8	7127.9
35°	15091.6	14931.5	14849.5	14634.7	14572.2	14833.9	14587.8	14509.7	13916.0	12717.0	7975.5
37.5°	15263.5	15314.3	15298.6	15029.1	15161.9	15868.9	16185.2	15982.1	15669.7	14455.0	8893.3
40°	15415.9	15450.9	15372.9	15689.2	16068.1	16872.6	18017.1	17681.2	17563.9	16216.5	10170.5
42.5°	15501.8	15474.4	15474.4	16021.2	16595.4	18212.3	19786.3	19563.7	19473.8	18091.2	11646.8
45°	15130.7	14865.1	15150.3	15892.3	17048.4	18872.4	21200.2	21508.7	21379.8	20321.4	13373.2
47.5°	13744.2	13908.2	14068.4	15060.4	16497.7	18669.3	22067.2	23117.9	23356.1	22196.2	14505.8
50°	11646.8	11611.7	11943.6	13193.5	14939.3	17794.4	21899.3	23582.6	24016.2	22758.5	14744.0
52.5°	8471.5	8729.3	9088.6	10330.6	12400.6	15529.1	19731.6	22383.6	22961.6	22067.2	14587.8
55°	4932.9	4647.8	5456.3	6506.9	8459.8	11713.2	16681.3	19841.0	20911.2	20809.6	13798.9
57.5°	1976.3	1913.8	2191.1	2952.7	4413.5	7260.7	12131.1	16302.5	18017.1	19059.9	12127.2
60°	867.1	847.5	996.0	1202.9	1804.4	3347.2	6635.8	10139.2	11928.1	13318.4	8346.5
62.5°	624.9	617.1	691.3	765.5	953.0	1456.8	2788.7	4085.4	5093.0	6151.5	3737.7
65°	503.9	523.4	574.2	613.2	703.1	808.4	984.2	1136.5	1394.4	1445.1	824.1
67.5°	410.1	425.7	472.6	515.5	531.2	437.5	453.0	398.4	398.4	355.4	285.1
70°	300.8	304.7	359.3	410.1	328.1	175.8	308.6	308.6	277.3	265.6	242.2
72.5°	222.6	226.5	269.5	253.8	128.9	109.4	226.5	249.9	226.5	214.8	195.3
75°	164.0	168.0	140.6	58.6	54.7	70.3	132.8	171.9	164.0	160.1	148.4
77.5°	31.2	23.4	19.5	27.3	39.1	58.6	85.9	105.5	109.4	117.1	109.4
80°	3.9	3.9	11.7	23.4	43.0	62.5	89.8	101.6	105.5	109.4	101.6
82.5°	0.0	3.9	11.7	23.4	43.0	58.6	78.1	89.8	97.6	101.6	97.6
85°	0.0	3.9	7.8	19.5	35.2	43.0	39.1	27.3	23.4	27.3	19.5
87.5°	0.0	0.0	3.9	3.9	7.8	7.8	7.8	7.8	7.8	7.8	7.8
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°	2460.6	2460.6	2460.6	2460.6	2460.6	2460.6	2460.6	2460.6	2460.6	2460.6	2460.6
2.5°	2491.8	2476.2	2421.5	2362.9	2312.2	2335.6	2312.2	2292.6	2300.5	2292.6	2284.9
5°	2628.5	2558.2	2441.1	2390.3	2347.4	2343.4	2331.7	2327.8	2331.7	2331.7	2296.5
7.5°	2757.4	2644.2	2519.1	2464.5	2413.8	2417.7	2390.3	2390.3	2386.3	2366.9	2359.0
10°	2952.7	2800.4	2640.3	2542.6	2480.2	2468.4	2441.1	2413.8	2413.8	2413.8	2374.7
12.5°	3167.5	2976.2	2757.4	2644.2	2570.0	2511.4	2468.4	2460.6	2417.7	2409.8	2390.3
15°	3355.0	3112.8	2835.6	2679.3	2585.5	2507.5	2441.1	2398.1	2378.6	2366.9	2351.3
17.5°	3538.5	3230.0	2878.5	2679.3	2577.8	2487.9	2417.7	2378.6	2331.7	2339.5	2308.3
20°	3784.6	3355.0	2890.2	2628.5	2503.6	2417.7	2323.9	2304.4	2277.0	2253.6	2261.4
22.5°	4022.9	3444.8	2855.1	2566.0	2386.3	2284.9	2238.0	2214.6	2202.8	2183.3	2155.9
25°	4237.7	3542.4	2800.4	2452.7	2261.4	2187.2	2144.2	2140.3	2113.0	2113.0	2062.2
27.5°	4456.4	3577.6	2706.7	2320.0	2152.1	2109.1	2089.6	2081.8	2070.0	2042.7	2007.5
30°	4706.4	3589.4	2570.0	2183.3	2054.4	2007.5	2034.9	2054.4	2003.6	1952.9	1968.5
32.5°	4913.4	3562.0	2405.9	2054.4	1984.1	1960.6	2015.4	2034.9	1976.3	1921.6	1894.2
35°	5163.3	3495.6	2245.8	1952.9	1913.8	1960.6	2007.5	2007.5	1890.4	1824.0	1808.3
37.5°	5542.2	3421.4	2097.3	1866.9	1839.6	1937.2	1999.7	1956.8	1773.2	1691.2	1671.6
40°	5948.4	3374.5	1952.9	1781.0	1800.5	1898.1	1933.3	1800.5	1613.1	1562.3	1546.7
42.5°	6538.1	3280.8	1824.0	1706.8	1765.4	1843.5	1843.5	1605.2	1534.9	1507.6	1503.7
45°	7272.4	3214.4	1710.7	1644.3	1714.6	1734.1	1671.6	1503.7	1452.9	1445.1	1449.0
47.5°	7631.7	3085.5	1593.6	1570.1	1620.9	1624.8	1460.8	1421.7	1378.7	1367.0	1359.2
50°	7577.1	2855.1	1441.2	1472.4	1542.7	1503.7	1331.9	1339.6	1300.6	1296.7	1277.2
52.5°	7194.3	2491.8	1288.9	1363.1	1441.2	1328.0	1226.4	1218.6	1218.6	1167.8	1148.3
55°	6378.0	2007.5	1105.3	1199.1	1292.8	1117.0	1089.7	1081.9	1062.4	1015.5	1003.7
57.5°	5050.1	1472.4	831.9	933.5	1097.5	949.1	945.2	910.0	859.3	824.1	824.1
60°	3003.5	847.5	523.4	570.3	726.5	769.5	855.3	839.7	753.8	699.1	683.5
62.5°	1370.9	437.5	332.0	339.8	390.6	499.9	671.8	777.2	656.2	562.4	554.6
65°	460.9	324.2	273.4	261.7	269.5	300.8	402.3	550.7	523.4	433.5	417.9
67.5°	281.2	289.0	257.8	238.3	238.3	234.4	230.4	249.9	308.6	300.8	304.7
70°	242.2	265.6	238.3	214.8	207.0	195.3	164.0	136.7	117.1	136.7	144.5
72.5°	195.3	210.9	203.1	183.5	164.0	148.4	117.1	89.8	66.4	58.6	58.6
75°	144.5	156.2	164.0	140.6	125.0	105.5	85.9	58.6	35.2	23.4	23.4
77.5°	105.5	117.1	121.1	109.4	93.7	74.2	54.7	39.1	19.5	7.8	7.8
80°	89.8	105.5	117.1	109.4	97.6	70.3	50.7	27.3	15.7	3.9	3.9
82.5°	85.9	105.5	117.1	105.5	93.7	66.4	50.7	31.2	11.7	3.9	3.9
85°	19.5	27.3	35.2	43.0	50.7	50.7	39.1	23.4	11.7	3.9	3.9
87.5°	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	3.9	3.9	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)