

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: P647019

Luminaire Tested: **GALN-SA6C-835-U-T2R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647019  
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-SA6C-835-U-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 3500K, 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: 33267.3 lumens  
Efficiency: N/A  
Efficacy: 103.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4

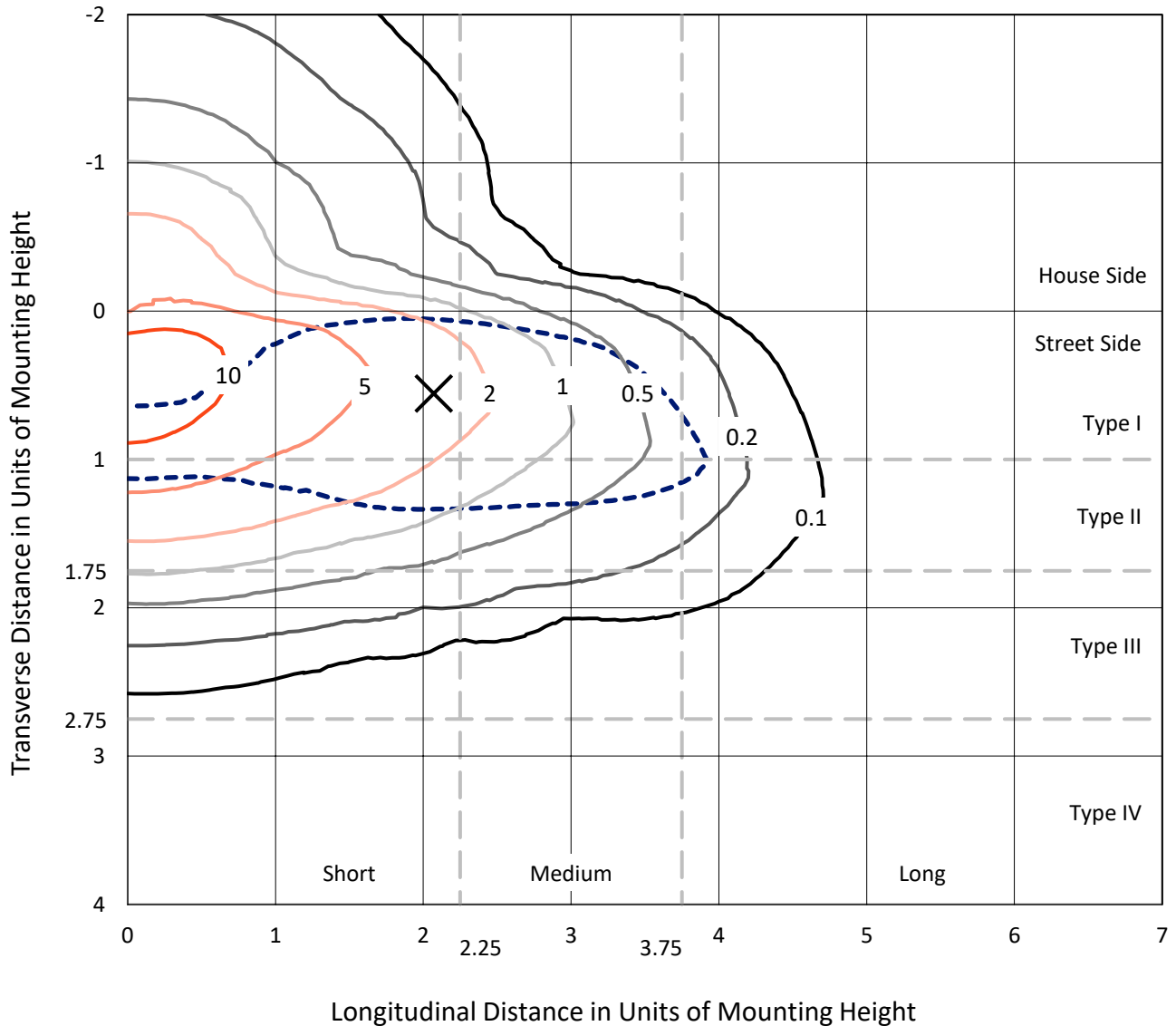
Input Watts (W): 321  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

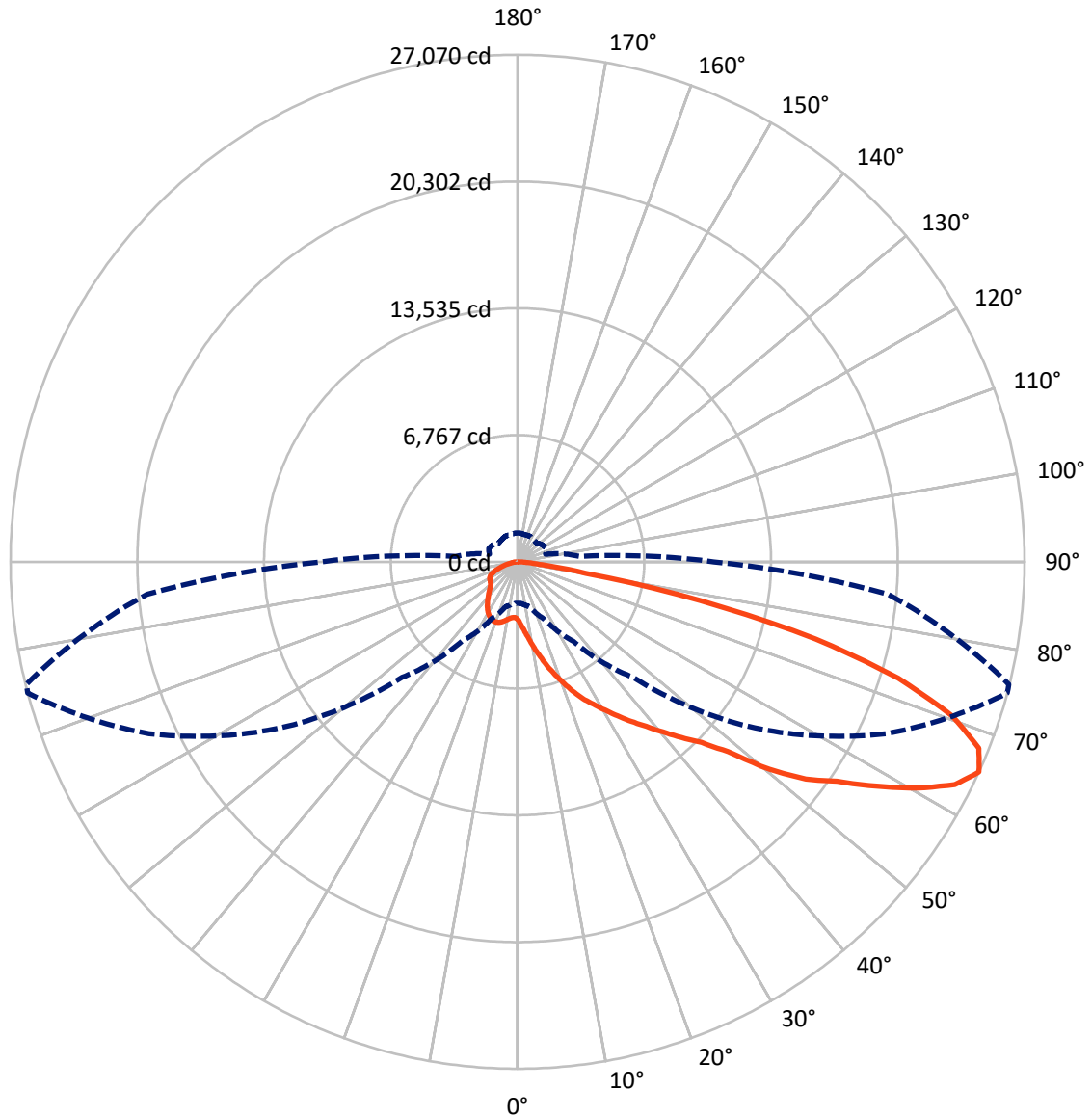
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.8 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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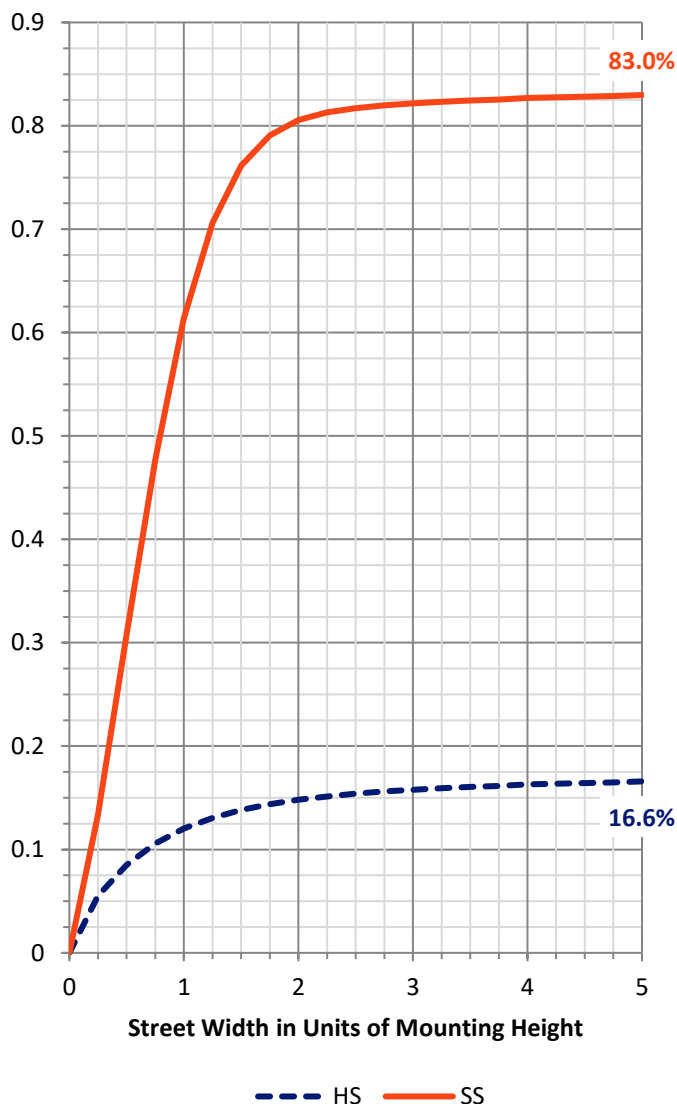
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5592.6	0.0	5592.6
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	27674.7	0.0	27674.7
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	33267.3	0.0	33267.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	375.5	1.1
10°-20°	1470.9	4.4
20°-30°	2841.4	8.5
30°-40°	4615.2	13.9
40°-50°	6348.7	19.1
50°-60°	7495.6	22.5
60°-70°	6567.4	19.7
70°-80°	3135.3	9.4
80°-90°	417.2	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°	33267.3	100.0
0°-180°	33267.3	100.0

**Coefficient of Utilization**

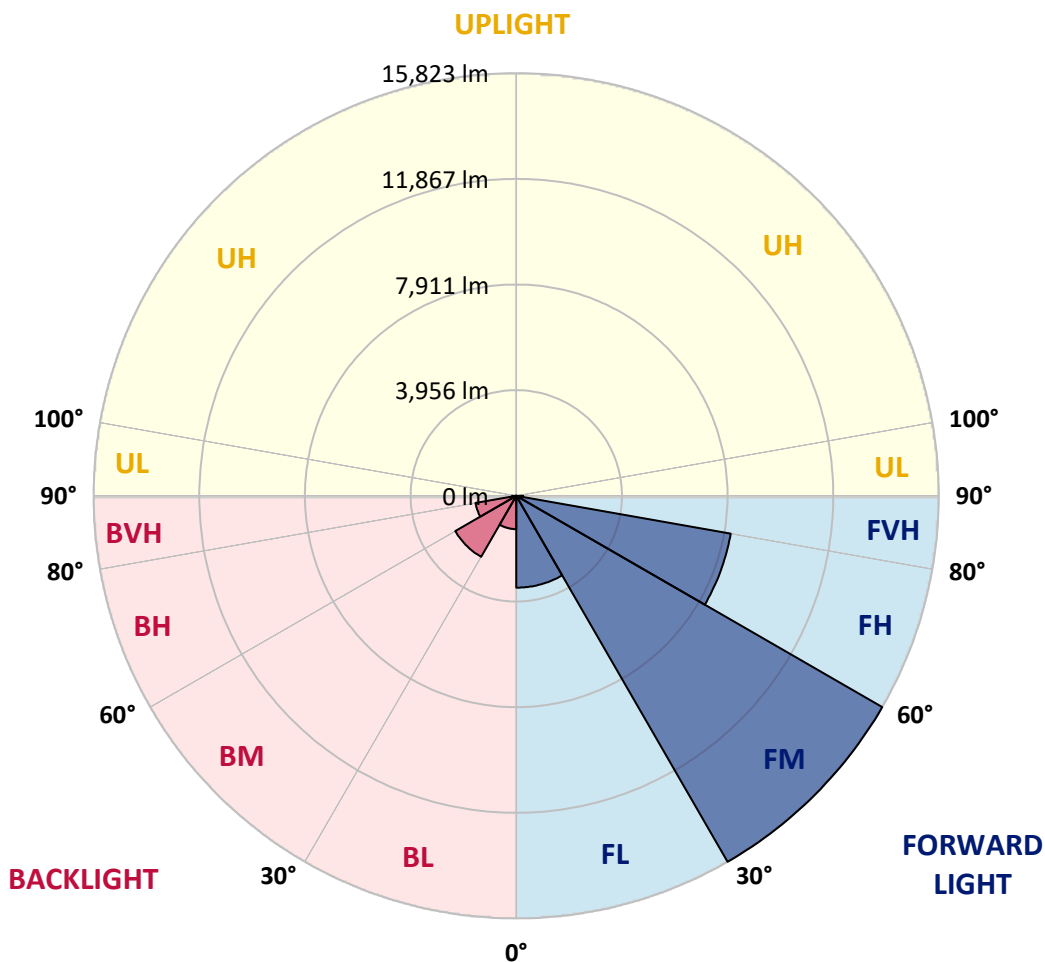


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3439.3	10.3			
FM (30°-60°)	15822.6	47.6			
FH (60°-80°)	8152.0	24.5			G4/12000
FVH (80°-90°)	260.7	0.8			G3/500
BL (0°-30°)	1248.6	3.8	B3/2500		
BM (30°-60°)	2636.9	7.9	B3/5000		
BH (60°-80°)	1550.7	4.7	B3/2500		G3/2500
BVH (80°-90°)	156.5	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-G4**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3091.0	3091.0	3091.0	3091.0	3091.0	3091.0	3091.0	3091.0	3091.0	3091.0	3091.0
2.5°	4106.8	4079.7	4050.9	3971.5	3886.7	3791.1	3653.9	3522.2	3347.2	3341.8	3211.9
5°	5245.4	5227.4	5099.3	5025.3	4828.6	4566.9	4345.0	4000.3	3681.0	3643.1	3390.5
7.5°	6292.0	6221.6	6172.9	6039.4	5844.5	5508.9	5079.4	4613.9	4079.7	4029.2	3610.6
10°	7080.5	7073.3	7048.0	6932.5	6786.4	6452.5	5976.2	5308.6	4585.0	4485.7	3877.7
12.5°	7670.6	7676.0	7672.4	7670.6	7565.9	7282.6	6766.5	6062.8	5095.7	5025.3	4186.2
15°	8058.5	8112.7	8134.3	8224.5	8233.6	8044.1	7600.2	6791.8	5671.3	5566.6	4518.2
17.5°	8314.8	8341.8	8442.9	8596.2	8720.7	8686.4	8291.3	7466.6	6259.5	6084.5	4862.9
20°	8560.1	8607.0	8684.6	8893.9	9114.0	9215.1	8937.2	8157.8	6842.3	6730.4	5243.6
22.5°	9070.7	9137.5	9164.6	9271.0	9458.7	9637.3	9511.0	8819.9	7481.1	7329.5	5647.8
25°	9935.1	10005.5	9929.7	9904.4	9965.8	10054.2	10027.1	9444.3	8083.8	7867.2	6030.4
27.5°	11061.0	11070.1	10922.1	10781.4	10629.8	10584.7	10501.7	9998.2	8607.0	8426.6	6414.6
30°	12270.0	12226.7	11981.3	11726.8	11470.6	11218.0	10979.9	10532.4	9189.8	8982.3	6791.8
32.5°	13392.4	13368.9	13096.4	12701.3	12268.2	12030.0	11548.2	11071.9	9814.2	9613.9	7179.7
35°	14233.2	14267.4	13967.9	13536.7	13064.0	12852.8	12244.7	11638.4	10460.2	10241.8	7602.0
37.5°	14830.4	14812.4	14547.1	14173.6	13758.6	13574.6	13058.5	12257.4	11154.9	10945.6	8063.9
40°	15043.4	15032.5	14835.9	14563.4	14299.9	14235.0	13910.2	12925.0	11950.6	11705.2	8619.7
42.5°	14908.0	14931.5	14801.6	14727.6	14678.9	14725.8	14756.5	13800.1	12818.5	12593.0	9222.3
45°	14493.0	14480.4	14462.3	14583.2	14857.5	15166.1	15593.7	14626.5	13762.2	13581.8	10030.7
47.5°	13751.4	13841.6	13886.7	14220.5	14819.6	15550.4	16557.2	15734.5	15131.8	14974.8	11263.1
50°	12713.9	12786.1	13053.1	13646.8	14539.9	15694.8	17499.2	17546.1	17416.2	17122.0	12602.0
52.5°	11093.5	11205.4	11755.7	12843.8	13966.1	15635.2	18069.4	19099.6	19271.1	19050.9	13921.0
55°	9280.1	9437.0	10018.1	11445.3	13175.8	15310.4	18462.7	20000.1	20684.0	20480.1	15191.3
57.5°	7504.5	7670.6	8267.8	9650.0	11797.2	14592.3	18720.7	21003.3	22607.5	22342.2	16772.0
60°	5624.4	5797.6	6310.0	7733.7	9834.0	13188.5	18545.7	21873.0	24529.1	24415.5	18354.5
62.5°	3628.7	3819.9	4265.6	5443.9	7558.7	11270.3	17609.2	22353.0	26192.8	26055.7	19509.3
65°	2210.4	2232.0	2477.5	3379.7	5173.3	8726.1	15467.4	21716.0	27069.7	27028.2	19861.1
67.5°	1429.1	1463.3	1575.2	2024.5	3101.8	6061.0	12367.4	19613.9	26557.3	26542.8	19133.9
70°	1207.2	1218.0	1268.5	1365.9	1802.6	3675.6	8684.6	16263.1	24610.3	24610.3	17385.5
72.5°	1079.1	1093.5	1111.5	1142.2	1286.5	2082.3	5182.3	12659.8	21248.7	21389.4	14798.0
75°	979.8	976.2	987.0	992.5	1097.1	1360.5	2679.6	9363.1	16438.1	16156.7	10716.4
77.5°	839.1	844.5	839.1	862.5	969.0	1035.8	1360.5	6282.9	9962.1	9597.6	5379.0
80°	689.3	698.3	707.4	721.8	828.3	786.8	817.4	2863.6	3684.6	3607.0	1661.8
82.5°	517.9	530.5	545.0	579.2	651.4	519.7	516.1	1223.4	1329.8	1218.0	611.7
85°	209.3	247.2	373.5	407.8	409.6	285.1	317.6	510.7	543.1	530.5	240.0
87.5°	48.7	57.7	120.9	182.3	167.8	106.5	117.3	166.0	189.5	175.0	81.2
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°	3091.0	3091.0	3091.0	3091.0	3091.0	3091.0	3091.0	3091.0	3091.0	3091.0	3091.0
2.5°	3152.3	3089.2	2980.9	2897.9	2838.4	2786.0	2753.5	2733.7	2726.5	2724.7	2726.5
5°	3258.8	3146.9	2975.5	2867.2	2807.7	2773.4	2753.5	2751.7	2753.5	2755.3	2749.9
7.5°	3405.0	3244.4	3020.6	2919.6	2874.4	2849.2	2840.2	2836.5	2838.4	2836.5	2836.5
10°	3599.8	3379.7	3109.0	3004.4	2966.5	2937.6	2923.2	2914.1	2906.9	2899.7	2896.1
12.5°	3814.5	3529.5	3204.7	3103.6	3049.5	3004.4	2971.9	2948.4	2932.2	2915.9	2912.3
15°	4054.5	3688.2	3311.1	3170.4	3092.8	3026.0	2970.1	2932.2	2903.3	2879.9	2878.0
17.5°	4283.6	3838.0	3383.3	3201.1	3087.4	2993.5	2919.6	2867.2	2831.1	2800.5	2796.8
20°	4529.1	3980.5	3415.8	3181.2	3033.2	2919.6	2822.1	2759.0	2717.5	2683.2	2677.8
22.5°	4776.3	4101.4	3412.2	3118.0	2939.4	2805.9	2703.0	2636.2	2587.5	2553.2	2540.6
25°	5012.7	4198.8	3367.1	3017.0	2809.5	2670.5	2565.9	2504.5	2461.2	2419.7	2419.7
27.5°	5225.6	4256.6	3282.3	2894.3	2675.9	2529.8	2446.8	2390.8	2351.1	2324.1	2307.8
30°	5434.9	4283.6	3166.8	2739.1	2535.2	2410.7	2343.9	2311.4	2275.4	2244.7	2241.1
32.5°	5622.6	4278.2	3022.4	2587.5	2401.7	2313.2	2286.2	2260.9	2223.0	2179.7	2168.9
35°	5804.8	4242.1	2851.0	2421.5	2289.8	2255.5	2262.7	2226.6	2158.1	2103.9	2094.9
37.5°	6003.3	4177.2	2663.3	2286.2	2196.0	2228.4	2246.5	2167.1	2055.2	1970.4	1950.5
40°	6232.4	4103.2	2468.4	2150.8	2122.0	2203.2	2203.2	2057.0	1903.6	1851.3	1836.9
42.5°	6501.3	4041.8	2306.0	2037.2	2060.6	2141.8	2132.8	1910.8	1847.7	1820.6	1813.4
45°	6927.1	4020.2	2138.2	1937.9	2010.1	2069.6	1995.7	1860.3	1824.2	1802.6	1795.4
47.5°	7600.2	4045.5	1990.2	1863.9	1952.4	1997.5	1842.3	1826.0	1800.8	1770.1	1766.5
50°	8224.5	4022.0	1885.6	1822.4	1901.8	1910.8	1779.1	1784.5	1770.1	1735.8	1728.6
52.5°	8735.1	3948.0	1818.8	1800.8	1858.5	1759.3	1719.6	1739.4	1734.0	1690.7	1683.5
55°	9296.3	3902.9	1786.3	1800.8	1829.6	1627.5	1663.6	1692.5	1685.3	1654.6	1652.8
57.5°	9976.6	3911.9	1762.9	1806.2	1800.8	1560.8	1607.7	1642.0	1640.2	1631.2	1631.2
60°	10673.1	3915.5	1726.8	1804.4	1766.5	1508.4	1550.0	1598.7	1602.3	1607.7	1607.7
62.5°	10904.1	3758.6	1656.4	1771.9	1690.7	1457.9	1495.8	1562.6	1559.0	1573.4	1575.2
65°	10472.8	3323.8	1551.8	1697.9	1593.3	1421.8	1454.3	1515.7	1495.8	1533.7	1540.9
67.5°	9532.7	2749.9	1389.4	1564.4	1485.0	1384.0	1427.3	1450.7	1414.6	1488.6	1490.4
70°	8239.0	2147.2	1183.7	1374.9	1362.3	1344.3	1405.6	1369.5	1319.0	1409.2	1391.2
72.5°	6889.2	1640.2	945.5	1124.2	1198.1	1284.7	1367.7	1264.9	1194.5	1221.6	1189.1
75°	5175.1	1212.6	759.7	880.6	997.9	1199.9	1333.4	1138.6	1030.3	1005.1	997.9
77.5°	2638.1	792.2	568.4	658.6	748.9	1084.5	1286.5	990.7	853.5	813.8	795.8
80°	941.9	492.6	400.6	454.7	505.3	932.9	1124.2	819.2	662.2	655.0	662.2
82.5°	436.7	317.6	268.9	297.7	299.5	622.5	857.1	611.7	503.5	765.1	646.0
85°	187.7	158.8	151.6	148.0	137.1	277.9	481.8	328.4	512.5	229.2	211.1
87.5°	55.9	63.2	55.9	41.5	30.7	30.7	48.7	18.0	12.6	9.0	9.0
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)