

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: P651005

Luminaire Tested: **GALN-SA7C-840-U-AFL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651005  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7C-840-U-AFL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 41585.8 lumens  
Efficiency: N/A  
Efficacy: 110.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

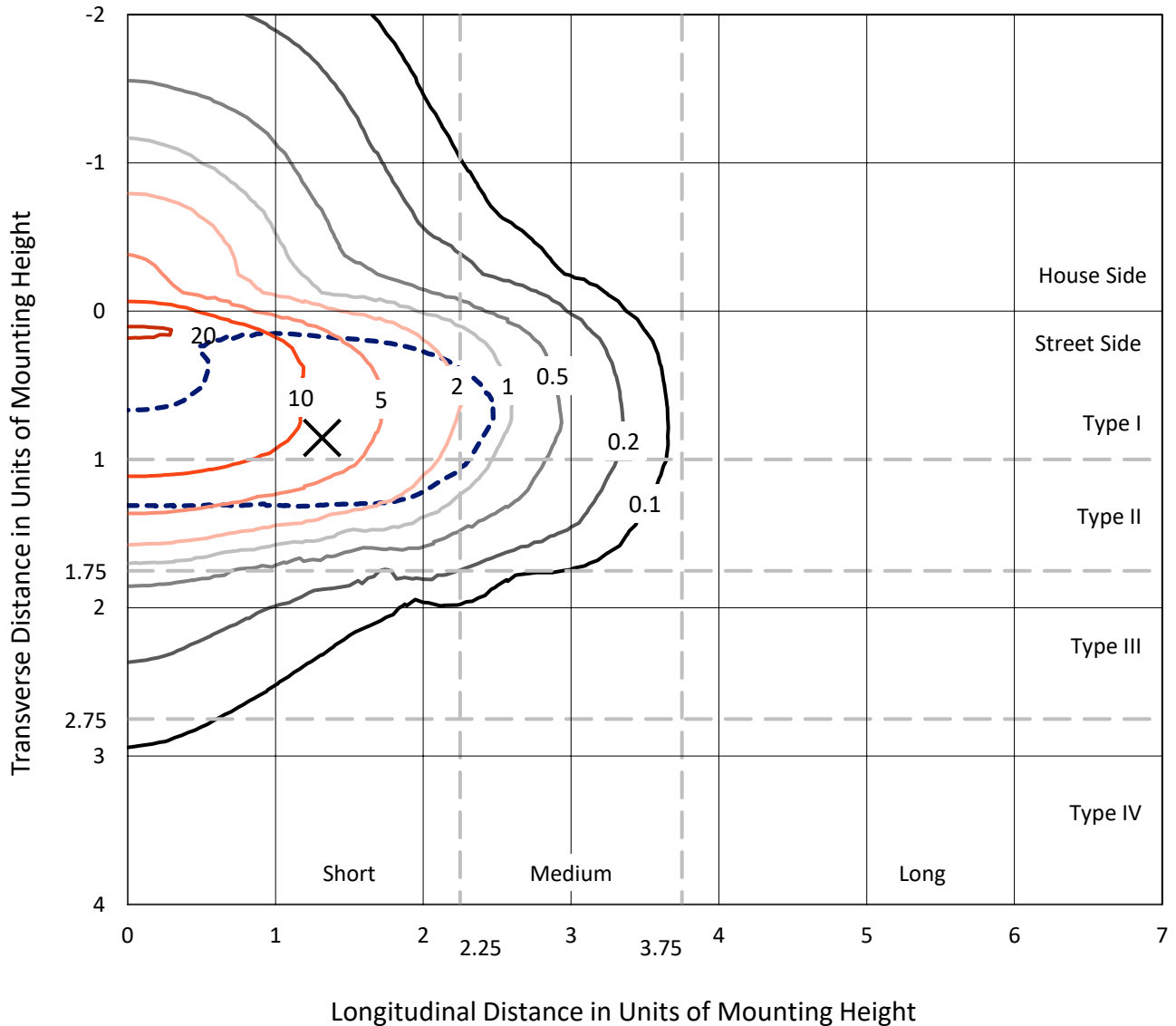
Input Watts (W): 377  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

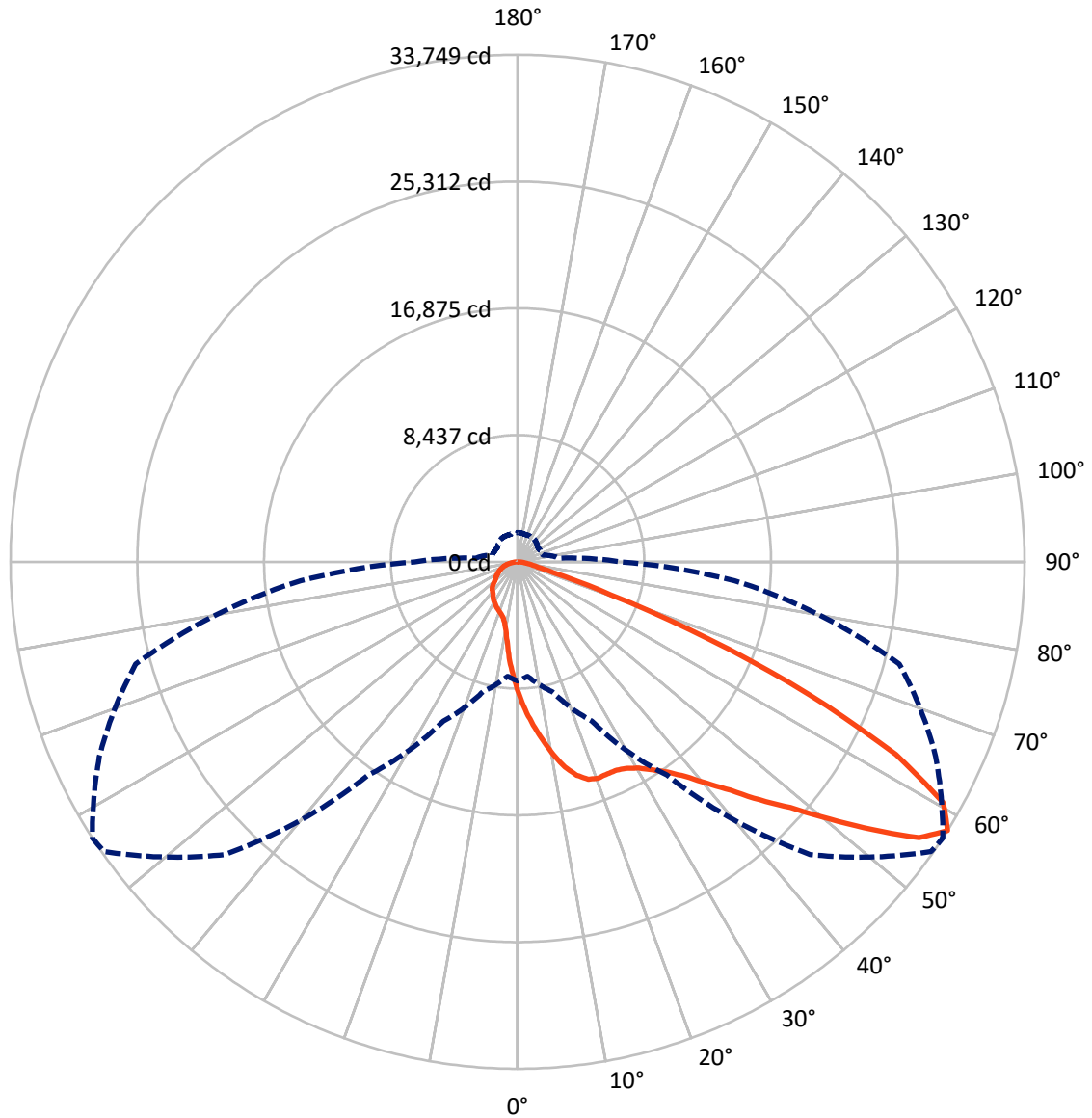
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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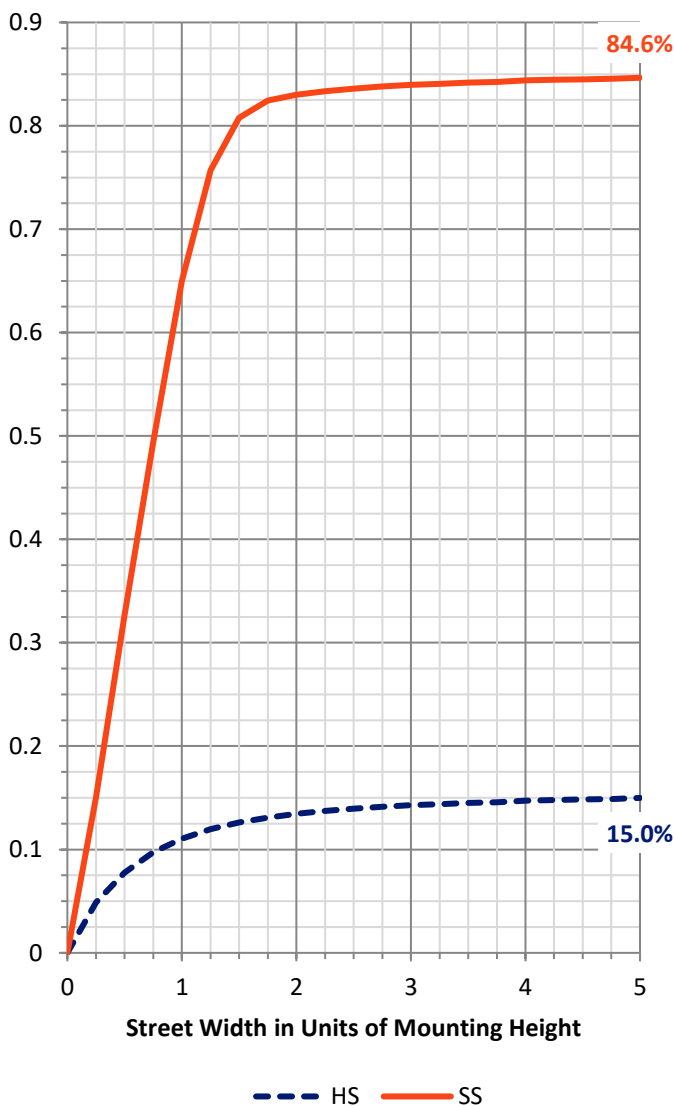
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6324.0	0.0	6324.0
	% Fixture	15.2	0.0	15.2
<b>Street Side</b>	Lumens	35261.7	0.0	35261.7
	% Fixture	84.8	0.0	84.8
<b>Total</b>	Lumens	41585.8	0.0	41585.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	839.7	2.0
10°-20°	2474.6	6.0
20°-30°	4109.1	9.9
30°-40°	6189.5	14.9
40°-50°	9292.9	22.3
50°-60°	10416.2	25.0
60°-70°	6096.1	14.7
70°-80°	1803.2	4.3
80°-90°	364.5	0.9
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°	41585.8	100.0
0°-180°	41585.8	100.0

**Coefficient of Utilization**



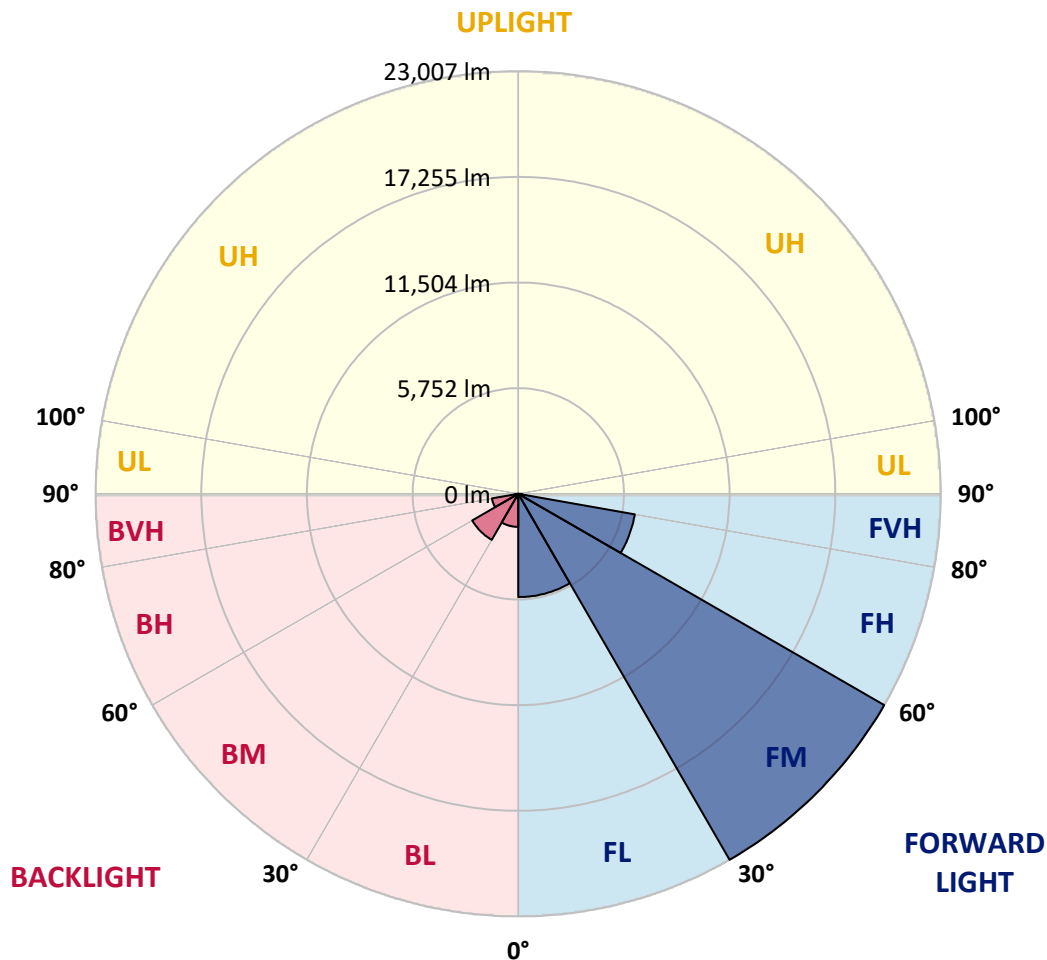
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5621.4	13.5			
FM (30°-60°)	23007.1	55.3			
FH (60°-80°)	6444.1	15.5			G3/7500
FVH (80°-90°)	189.1	0.5			G2/225
BL (0°-30°)	1801.9	4.3	B3/2500		
BM (30°-60°)	2891.6	7.0	B3/5000		
BH (60°-80°)	1455.1	3.5	B3/2500		G3/2500
BVH (80°-90°)	175.4	0.4			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°	57°	65°	75°	85°
0°	8736.7	8736.7	8736.7	8736.7	8736.7	8736.7	8736.7	8736.7	8736.7	8736.7	8736.7
2.5°	10856.0	10737.6	10644.3	10562.4	10455.3	10166.3	9877.1	9872.6	9642.7	9287.6	8923.3
5°	12624.8	12465.4	12485.9	12230.9	11975.9	11557.1	10944.8	10912.9	10423.5	9758.8	9082.7
7.5°	13776.6	13778.9	13715.1	13569.5	13293.9	12818.2	12123.9	11966.8	11286.2	10277.8	9264.8
10°	13717.4	13778.9	13885.8	14011.1	14095.2	13860.8	13228.0	13036.8	12151.3	10906.1	9467.4
12.5°	12929.8	13025.4	13177.9	13492.0	13999.6	14386.7	14170.3	14015.6	13152.8	11532.0	9690.5
15°	12438.1	12495.0	12579.2	12790.9	13337.3	14263.7	14823.7	14741.7	14097.5	12240.0	9940.9
17.5°	12287.9	12344.7	12372.0	12501.8	12891.1	13840.3	15080.9	15226.6	14935.2	12891.1	10193.6
20°	12438.1	12465.4	12465.4	12542.8	12847.8	13592.2	15069.5	15363.2	15622.7	13671.9	10430.3
22.5°	12831.9	12843.2	12827.4	12854.6	13082.3	13660.4	14962.6	15326.8	16178.1	14334.3	10614.7
25°	13471.6	13489.7	13385.0	13321.3	13487.5	13960.9	15021.8	15356.4	16612.9	14967.1	10737.6
27.5°	14197.7	14220.5	14093.0	13945.0	14022.4	14332.0	15253.9	15554.4	16938.4	15590.8	10815.0
30°	15087.8	15096.9	14882.9	14705.3	14655.3	14885.2	15650.0	15930.0	17343.6	16326.1	10931.1
32.5°	15998.3	16066.6	15791.1	15540.8	15456.5	15527.1	16235.1	16506.0	17826.3	17116.0	11117.8
35°	17236.6	17248.1	16918.0	16612.9	16335.2	16426.2	16984.0	17179.7	18493.2	18028.9	11381.8
37.5°	18782.3	18887.0	18431.8	17862.7	17521.2	17389.2	17890.0	18104.0	19428.8	19148.8	11780.2
40°	20498.7	20537.4	20148.1	19793.0	19169.2	18786.8	19132.8	19365.0	20582.9	20485.0	12242.3
42.5°	21577.7	21661.9	21691.5	21655.1	21186.1	20544.2	20676.2	20785.5	21948.8	21739.3	12715.8
45°	21941.9	22067.1	22490.5	23387.4	23437.5	22804.6	22497.3	22602.0	23437.5	23005.0	13168.8
47.5°	21338.7	21552.6	22333.4	24172.7	25549.9	25597.8	24671.2	24441.3	24794.2	24054.4	13496.5
50°	19779.3	19824.9	21020.0	23683.3	26540.2	28267.9	27309.5	26881.6	26082.6	24830.6	13721.9
52.5°	17366.4	17418.8	18420.3	21409.3	25930.0	30134.5	30396.3	29631.5	27391.5	25433.9	13869.9
55°	12891.1	13193.9	14295.6	17184.3	23039.1	29959.3	32850.2	32415.4	28973.6	25911.9	14102.1
57.5°	7926.3	7648.6	8955.2	11691.4	17327.7	27550.8	33608.3	33749.4	30715.0	26312.5	14491.4
60°	3646.7	3701.4	4240.9	6030.1	10562.4	21552.6	31655.2	32547.5	31677.9	26298.8	14589.2
62.5°	2513.1	2463.0	2326.5	2647.4	4816.8	13630.8	26738.2	28249.7	29747.5	25481.6	14199.9
65°	2246.7	2196.7	1932.6	1843.9	2212.6	5941.3	19437.9	21345.5	25046.8	23419.2	13230.3
67.5°	2098.8	2030.5	1757.4	1584.4	1579.8	2365.1	11461.5	13758.3	18577.4	19799.8	11463.8
70°	1944.1	1889.4	1618.5	1427.3	1345.3	1486.5	5037.6	6594.6	12062.5	14268.2	8930.2
72.5°	1789.2	1725.5	1481.9	1277.1	1170.1	1113.1	1930.3	2510.8	6815.5	8554.6	5474.7
75°	1563.8	1532.0	1324.8	1156.4	1040.3	899.2	1224.7	1397.7	3259.7	3929.0	2747.5
77.5°	1368.1	1333.9	1176.9	1010.7	926.4	730.7	869.6	949.2	1375.0	1593.4	1240.6
80°	1001.6	1035.8	992.5	892.3	826.3	573.6	585.0	651.0	817.2	903.7	758.0
82.5°	635.1	698.9	764.9	687.4	626.0	453.0	405.2	430.3	557.8	591.9	336.9
85°	266.3	270.9	443.9	418.8	357.4	268.6	243.6	257.3	298.2	311.8	157.1
87.5°	102.4	100.2	157.1	145.7	111.5	77.4	77.4	86.5	118.4	109.2	50.0
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°	8736.7	8736.7	8736.7	8736.7	8736.7	8736.7	8736.7	8736.7	8736.7	8736.7	8736.7
2.5°	8766.2	8604.7	8283.7	7885.3	7594.0	7266.2	6977.1	6769.9	6692.5	6656.1	6587.8
5°	8759.4	8440.8	7776.1	7079.5	6519.5	5945.9	5461.0	5146.8	5119.6	4910.1	4889.7
7.5°	8761.7	8274.6	7216.1	6191.7	5338.1	4750.8	4350.2	4245.5	4120.2	4088.4	4104.2
10°	8768.6	8062.9	6615.1	5313.0	4486.7	4102.0	3951.8	3910.8	3915.4	3929.0	3931.3
12.5°	8777.7	7858.1	5991.4	4646.1	4008.7	3849.3	3833.4	3869.9	3908.5	3938.2	3945.0
15°	8789.0	7623.6	5383.6	4108.9	3769.7	3756.0	3808.4	3869.9	3924.4	3967.7	3974.6
17.5°	8775.4	7350.4	4873.7	3778.8	3637.7	3703.7	3790.1	3867.5	3917.6	3958.6	3963.1
20°	8743.5	7045.4	4382.0	3546.6	3555.7	3662.6	3756.0	3828.8	3883.5	3904.0	3919.9
22.5°	8620.6	6681.2	3954.0	3366.8	3457.8	3605.8	3717.3	3760.5	3699.1	3655.8	3667.3
25°	8411.2	6207.7	3555.7	3221.0	3369.0	3526.1	3639.9	3535.2	3485.1	3466.9	3476.0
27.5°	8149.4	5688.6	3255.2	3068.6	3255.2	3437.3	3405.5	3387.2	3364.5	3334.9	3341.7
30°	7867.1	5181.0	3000.3	2950.1	3132.3	3237.0	3250.6	3280.2	3255.2	3209.7	3227.9
32.5°	7605.3	4703.0	2806.8	2850.0	3045.8	3029.9	3132.3	3166.4	3050.3	2897.8	2904.6
35°	7382.2	4259.1	2661.1	2752.1	2897.8	2904.6	3007.1	2888.7	2763.5	2690.7	2695.2
37.5°	7213.8	3913.1	2565.5	2667.9	2708.9	2795.4	2740.7	2679.3	2663.4	2613.2	2615.5
40°	7113.7	3610.3	2504.0	2601.9	2595.1	2654.3	2478.9	2540.4	2563.2	2547.2	2549.5
42.5°	7013.5	3396.4	2440.2	2510.8	2508.5	2392.5	2353.8	2406.1	2465.3	2472.1	2467.6
45°	6933.8	3230.2	2374.2	2372.0	2417.5	2235.4	2224.0	2255.9	2340.1	2381.0	2378.8
47.5°	6845.1	3091.3	2274.1	2210.3	2224.0	2137.5	2119.3	2132.9	2235.4	2301.4	2319.6
50°	6733.5	2952.4	2148.9	2062.4	2005.4	2046.5	2051.0	2053.3	2155.7	2230.8	2246.7
52.5°	6644.7	2847.7	2005.4	1941.7	1873.4	1964.5	1998.6	2003.2	2064.7	2126.1	2137.5
55°	6697.1	2788.6	1864.3	1818.8	1757.4	1880.3	1946.3	1955.4	1969.0	2014.6	2021.4
57.5°	6854.2	2802.2	1750.5	1691.3	1645.8	1780.1	1891.7	1898.5	1889.4	1944.1	1953.1
60°	6901.9	2795.4	1666.3	1550.2	1522.9	1673.2	1812.0	1825.6	1823.4	1903.0	1919.0
62.5°	6701.6	2708.9	1582.1	1431.8	1413.6	1563.8	1700.4	1755.1	1766.4	1880.3	1900.7
65°	6230.4	2531.3	1470.6	1306.7	1306.7	1447.8	1593.4	1668.5	1700.4	1853.0	1875.8
67.5°	5609.0	2321.9	1356.7	1199.7	1195.1	1336.3	1479.7	1557.0	1607.2	1814.3	1827.9
70°	4655.2	2039.6	1215.6	1083.5	1083.5	1211.0	1340.8	1434.1	1507.0	1741.5	1741.5
72.5°	3189.2	1695.9	1044.9	951.5	953.8	1072.2	1204.2	1308.9	1395.4	1595.7	1600.3
75°	2016.9	1324.8	858.2	810.4	819.5	931.1	1067.6	1176.9	1349.9	1577.5	1584.4
77.5°	1072.2	931.1	682.9	671.5	682.9	785.3	937.9	1088.1	1354.4	1368.1	1345.3
80°	694.3	660.2	539.5	516.7	521.3	632.9	835.4	1033.5	1088.1	1101.8	1051.7
82.5°	377.9	418.8	382.4	359.7	359.7	494.0	712.5	821.7	780.8	648.7	619.1
85°	161.6	195.8	198.1	173.0	166.2	305.0	478.0	448.4	416.5	398.4	393.8
87.5°	45.5	63.7	63.7	47.8	36.4	84.2	95.6	27.3	0.0	2.3	4.5
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)