

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: P652640

Luminaire Tested: **GALN-SA9B-840-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652640
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9B-840-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43287.1 lumens
Efficiency: N/A
Efficacy: 118.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

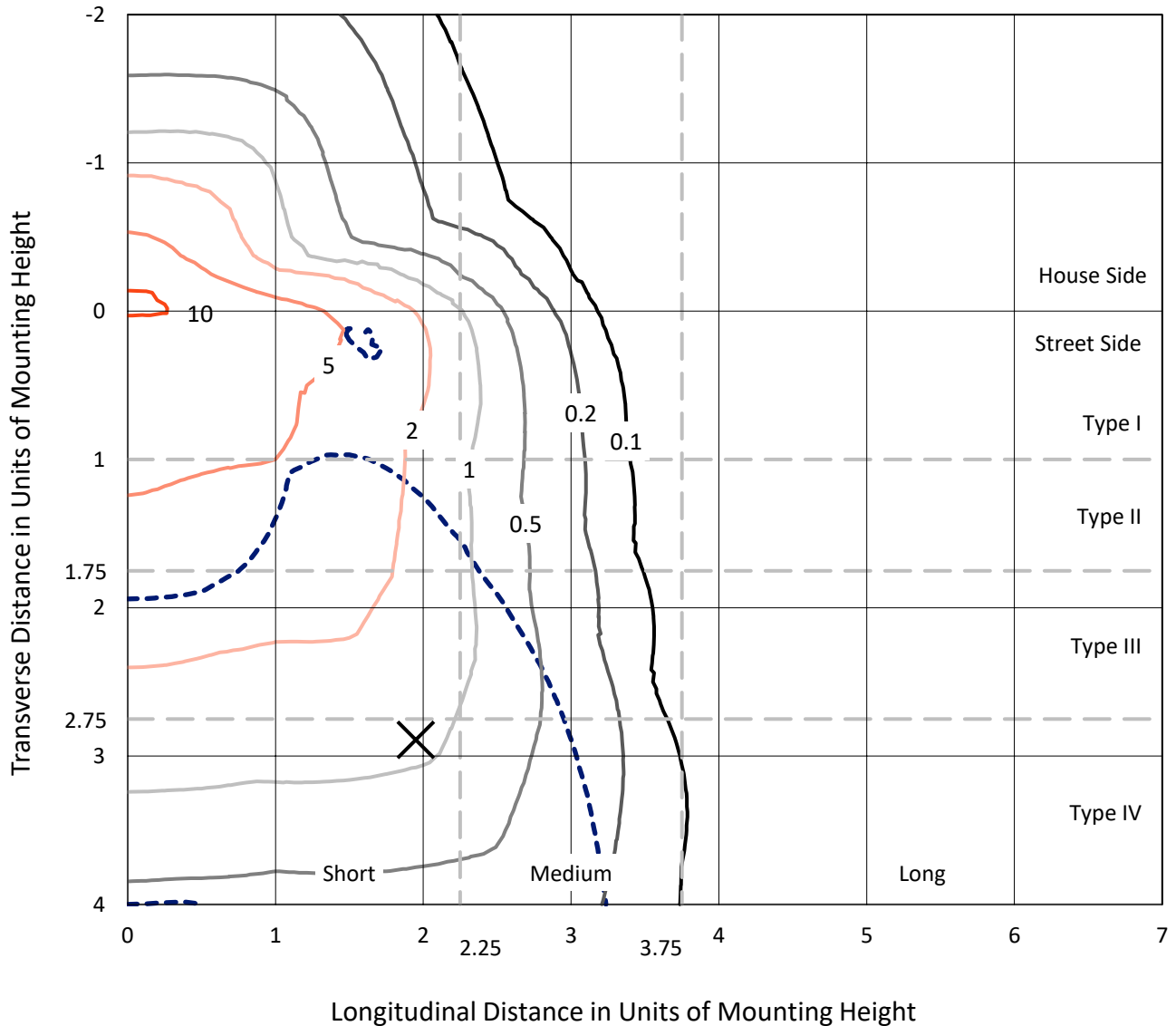
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

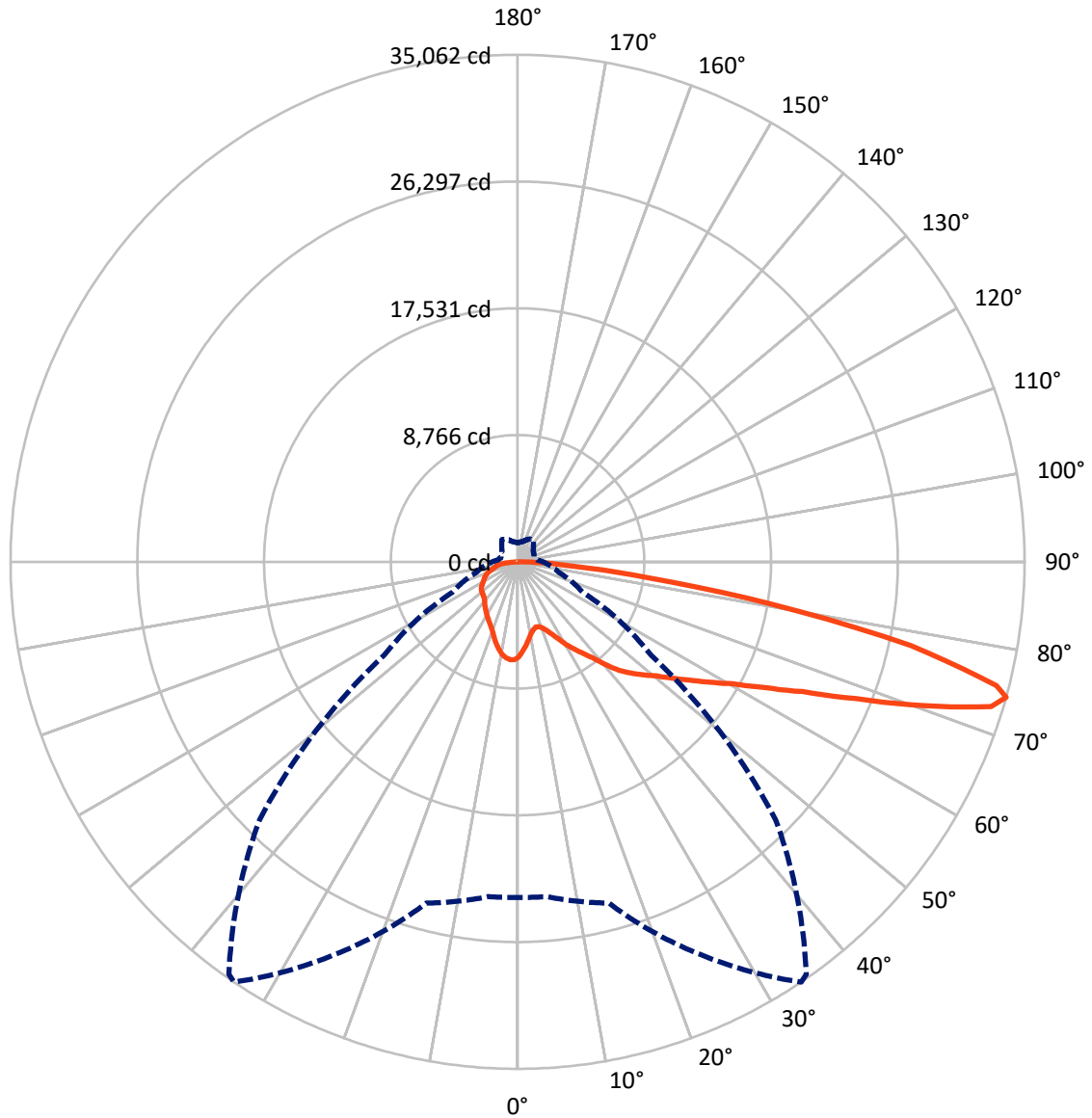
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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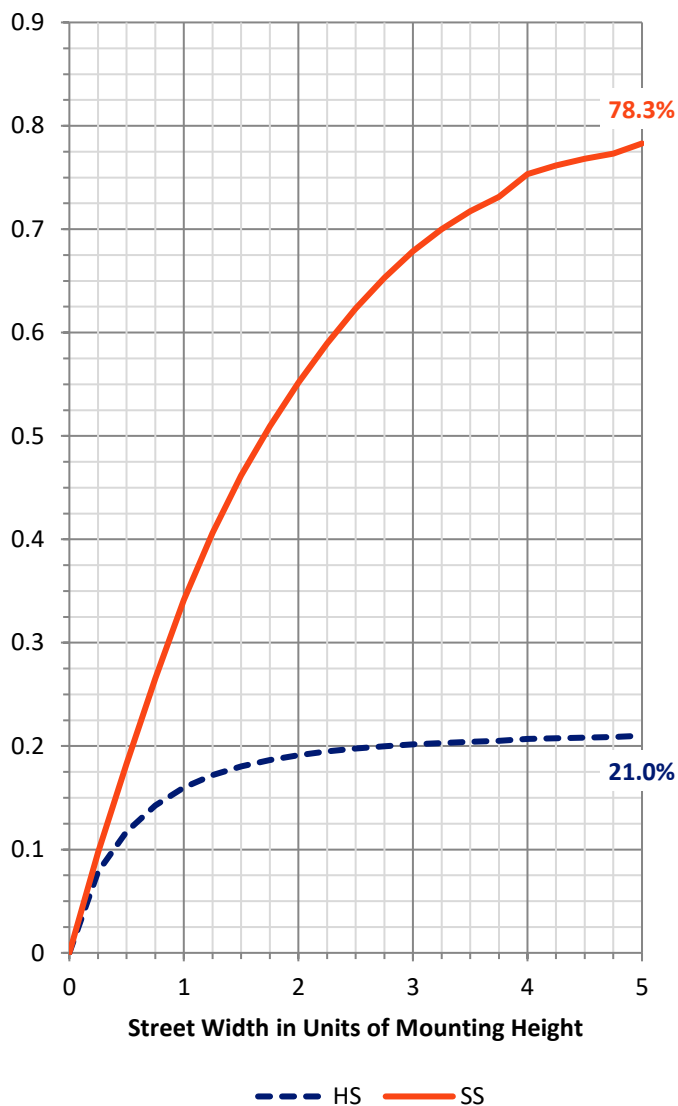
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9211.8	0.0	9211.8
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	34075.3	0.0	34075.3
	% Fixture	78.7	0.0	78.7
Total	Lumens	43287.1	0.0	43287.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	601.1	1.4
10°-20°	1645.4	3.8
20°-30°	2712.8	6.3
30°-40°	4063.5	9.4
40°-50°	5907.3	13.6
50°-60°	8251.0	19.1
60°-70°	10329.8	23.9
70°-80°	8542.0	19.7
80°-90°	1234.2	2.9
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°	43287.1	100.0
0°-180°	43287.1	100.0

Coefficient of Utilization



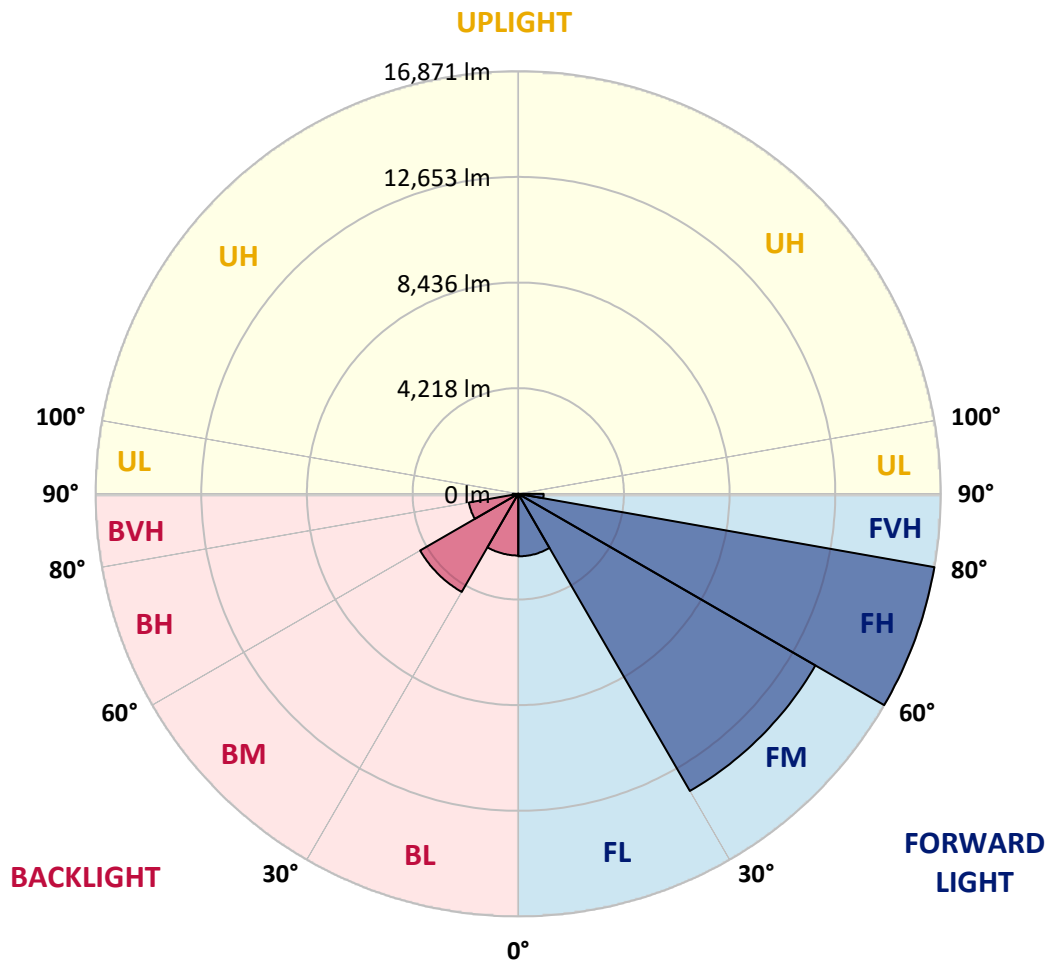
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2495.3	5.8			
FM (30°-60°)	13697.8	31.6			
FH (60°-80°)	16871.0	39.0			G5
FVH (80°-90°)	1011.1	2.3			G5
BL (0°-30°)	2464.0	5.7	B3/2500		
BM (30°-60°)	4524.0	10.5	B3/5000		
BH (60°-80°)	2000.7	4.6	B3/2500		G3/2500
BVH (80°-90°)	223.1	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	6609.1	6609.1	6609.1	6609.1	6609.1	6609.1	6609.1	6609.1	6609.1	6609.1	6609.1
2.5°	6107.9	6139.0	6155.9	6215.8	6230.2	6249.4	6299.8	6366.9	6453.2	6529.9	6597.1
5°	5599.5	5647.5	5676.2	5729.0	5832.1	5841.7	5976.0	6129.5	6304.6	6467.6	6601.8
7.5°	5117.5	5170.2	5194.2	5290.1	5426.8	5448.4	5645.0	5887.3	6179.8	6426.8	6633.1
10°	4755.4	4781.8	4834.5	4906.5	5069.5	5083.9	5340.5	5664.2	6043.2	6407.7	6685.9
12.5°	4558.7	4573.1	4585.1	4661.8	4822.5	4844.1	5112.7	5479.6	5935.2	6422.0	6772.2
15°	4587.5	4592.3	4539.5	4553.9	4683.4	4714.6	4980.8	5357.3	5868.1	6458.0	6901.7
17.5°	4829.7	4813.0	4683.4	4616.2	4707.4	4721.8	4954.4	5309.3	5836.9	6525.2	7036.0
20°	5211.0	5187.0	4964.0	4815.3	4868.0	4880.1	5040.8	5345.3	5868.1	6635.5	7244.5
22.5°	5685.8	5676.2	5338.1	5158.3	5155.8	5155.8	5239.8	5474.8	5961.6	6786.5	7462.8
25°	6350.1	6299.8	5858.5	5625.9	5561.1	5556.3	5546.7	5688.2	6081.5	6947.2	7721.8
27.5°	7031.2	6944.8	6551.6	6194.2	6055.1	6038.4	5976.0	5990.4	6235.0	7129.5	8016.7
30°	7642.7	7587.5	7218.2	6822.5	6657.0	6618.7	6446.0	6366.9	6491.6	7458.0	8486.8
32.5°	8110.3	8076.7	7788.9	7429.2	7184.7	7177.4	6925.6	6860.9	6892.1	7856.1	9023.9
35°	8489.1	8501.2	8354.9	8043.2	7762.6	7721.8	7553.9	7472.4	7381.3	8431.6	9700.2
37.5°	9007.2	9033.5	9023.9	8755.4	8412.4	8422.0	8383.7	8249.4	8007.2	9074.3	10450.8
40°	9577.9	9597.1	9594.7	9491.5	9311.7	9321.3	9306.9	9153.4	8791.3	9892.0	11285.3
42.5°	10366.8	10275.8	10038.3	10141.5	10247.0	10292.5	10390.8	10244.6	9748.2	10765.0	12069.5
45°	11249.4	11076.7	10539.5	10587.5	10978.4	11064.7	11606.6	11405.2	10786.5	11767.4	12992.8
47.5°	11805.7	11635.4	11182.2	11172.6	11690.6	11774.5	12733.7	12659.4	11731.4	12848.9	14119.9
50°	12302.1	12278.1	11767.4	11889.6	12395.7	12520.3	13961.6	13892.1	12673.8	14124.7	15347.7
52.5°	13038.3	12844.1	12436.4	12688.2	13357.3	13520.3	15179.8	14975.9	13539.5	15251.7	16539.5
55°	13369.2	13323.7	13299.7	13517.9	14436.4	14553.9	16364.4	15896.8	14278.1	16206.2	17446.0
57.5°	14254.1	14170.2	14407.6	14556.3	15707.4	15887.2	17601.9	16858.4	14925.6	16964.0	17887.2
60°	15400.4	15354.9	15573.0	15841.7	17127.0	17400.4	19011.9	17678.6	15446.0	17345.3	17645.0
62.5°	17112.7	17107.9	17067.1	17642.6	19139.0	19390.8	20630.6	18477.1	15527.6	17059.9	16393.2
65°	19568.3	19481.9	19127.0	19755.3	21642.6	21937.6	22316.4	18923.2	15035.9	15594.7	13803.3
67.5°	22136.6	22131.8	21844.0	22659.4	25237.3	25541.8	24424.3	18824.9	13671.4	12633.1	9803.3
70°	24266.1	24162.9	24529.9	26702.5	29829.6	30182.1	26268.5	17666.6	10889.6	8342.9	5824.9
72.5°	24776.9	24781.7	25544.3	29820.0	34239.6	34294.8	26932.8	14318.9	7287.8	4601.9	2913.6
74°	23203.8	23244.5	24426.8	29975.9	35062.2	34812.8	25234.9	11254.2	4928.0	3004.8	2100.7
75°	21179.7	20923.2	22633.0	28937.5	34208.5	33939.9	23246.9	9031.2	3760.2	2400.5	1839.4
77.5°	11323.7	11585.1	14223.0	21594.6	27791.3	27481.9	15762.5	4330.9	2031.2	1671.5	1323.7
80°	4031.2	4446.0	6249.4	11299.7	17817.7	17913.6	7522.7	1985.6	1429.3	1232.6	935.3
82.5°	1645.1	1690.7	2683.5	5014.4	9047.9	9134.3	3071.9	1179.8	1021.6	848.9	558.8
85°	642.7	661.9	1187.1	2254.2	3860.9	4112.7	1062.4	623.5	628.3	486.8	285.4
87.5°	215.8	244.6	486.8	750.6	1311.7	1285.4	309.3	184.7	225.4	211.0	88.7
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°	6609.1	6609.1	6609.1	6609.1	6609.1	6609.1	6609.1	6609.1	6609.1	6609.1	6609.1
2.5°	6630.7	6676.2	6707.4	6741.0	6772.2	6781.7	6774.6	6796.1	6798.6	6800.9	6803.4
5°	6669.0	6731.4	6791.3	6824.9	6839.3	6827.3	6786.5	6764.9	6745.7	6731.4	6736.2
7.5°	6721.8	6810.5	6865.7	6880.1	6841.7	6786.5	6685.9	6606.7	6556.4	6522.8	6520.4
10°	6803.4	6889.6	6935.2	6894.4	6789.0	6654.7	6496.4	6347.7	6235.0	6201.4	6199.0
12.5°	6906.5	7004.8	7002.3	6882.5	6697.8	6458.0	6201.4	6028.8	5875.3	5798.5	5829.7
15°	7040.8	7115.1	7045.6	6829.7	6537.2	6208.6	5892.0	5657.1	5484.4	5402.8	5407.6
17.5°	7196.6	7261.4	7076.7	6736.2	6311.7	5889.7	5522.8	5299.7	5163.1	5103.1	5098.3
20°	7390.9	7410.1	7076.7	6573.1	6021.6	5518.0	5167.9	5011.9	4935.2	4904.0	4913.6
22.5°	7599.5	7561.1	7038.3	6342.9	5640.3	5129.5	4894.5	4824.9	4786.6	4781.8	4786.6
25°	7834.5	7726.6	6959.2	6031.1	5242.2	4793.8	4657.0	4669.1	4676.2	4676.2	4693.0
27.5°	8122.3	7906.4	6827.3	5637.9	4777.0	4482.0	4443.6	4527.5	4566.0	4573.1	4585.1
30°	8501.2	8103.1	6609.1	5146.2	4381.3	4201.4	4268.6	4381.3	4424.4	4450.8	4446.0
32.5°	8952.0	8318.9	6314.1	4654.7	4062.4	4004.8	4086.3	4201.4	4249.4	4263.8	4244.6
35°	9481.9	8563.5	5925.6	4194.2	3784.2	3817.7	3913.7	3949.6	3992.8	3992.8	4002.4
37.5°	10052.7	8760.2	5450.9	3772.1	3568.4	3690.6	3760.2	3726.6	3707.4	3683.4	3695.4
40°	10633.0	8906.4	4834.5	3354.9	3352.5	3558.8	3578.0	3482.0	3405.3	3381.2	3369.3
42.5°	11139.0	8997.6	4278.2	3031.1	3148.7	3429.3	3443.6	3290.2	3167.9	3095.9	3071.9
45°	11736.2	9103.1	3733.8	2762.6	2959.2	3326.2	3362.1	3155.9	2976.0	2824.9	2786.6
47.5°	12553.9	9342.9	3304.5	2553.9	2822.6	3261.4	3311.8	3045.5	2808.2	2611.5	2580.4
50°	13477.2	9671.4	2971.2	2412.5	2717.0	3203.8	3266.2	2932.8	2652.3	2434.0	2410.1
52.5°	14323.7	9848.9	2683.5	2285.3	2613.9	3098.3	3206.2	2851.3	2498.8	2256.6	2235.0
55°	14786.5	9561.1	2400.5	2160.7	2472.4	2961.6	3122.3	2738.6	2350.1	2163.1	2131.9
57.5°	14848.9	8966.4	2143.9	2026.4	2323.8	2793.7	2966.4	2601.9	2254.2	2098.3	2072.0
60°	14366.9	8079.1	1944.8	1916.1	2172.6	2604.3	2791.4	2482.0	2155.9	2026.4	2000.0
62.5°	13167.8	7115.1	1805.7	1815.3	2019.2	2405.3	2661.8	2366.9	2062.3	1947.3	1923.3
65°	11105.5	5872.9	1671.5	1712.2	1882.5	2249.4	2544.4	2271.0	1968.8	1887.3	1865.7
67.5°	7714.6	4239.8	1561.1	1604.3	1753.0	2091.1	2407.7	2167.8	1863.3	1820.2	1786.5
70°	4270.9	2609.1	1431.6	1482.0	1618.7	1913.7	2254.2	2012.0	1709.8	1690.7	1642.6
72.5°	2244.6	1661.9	1285.4	1340.6	1436.4	1685.9	2019.2	1841.7	1558.7	1477.2	1414.9
74°	1753.0	1362.1	1187.1	1244.6	1309.4	1551.6	1880.1	1719.4	1450.8	1354.9	1306.9
75°	1527.6	1213.4	1103.1	1177.5	1235.0	1460.4	1772.2	1633.1	1390.8	1299.8	1256.6
77.5°	1079.2	908.9	901.6	990.4	1021.6	1280.6	1597.1	1486.8	1239.8	1143.8	1103.1
80°	757.8	681.0	714.6	769.8	812.9	1131.9	1482.0	1285.4	1016.8	904.1	889.7
82.5°	494.0	446.1	510.8	561.1	575.5	834.5	1196.7	976.0	741.0	601.9	558.8
85°	227.8	223.0	292.6	285.4	283.0	407.6	709.8	570.7	426.9	318.9	299.7
87.5°	57.5	55.2	71.9	60.0	71.9	62.3	64.8	16.8	2.4	0.0	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)