

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: P648664

Luminaire Tested: **GALN-SA9B-835-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648664
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9B-835-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33879.6 lumens
Efficiency: N/A
Efficacy: 93.1 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

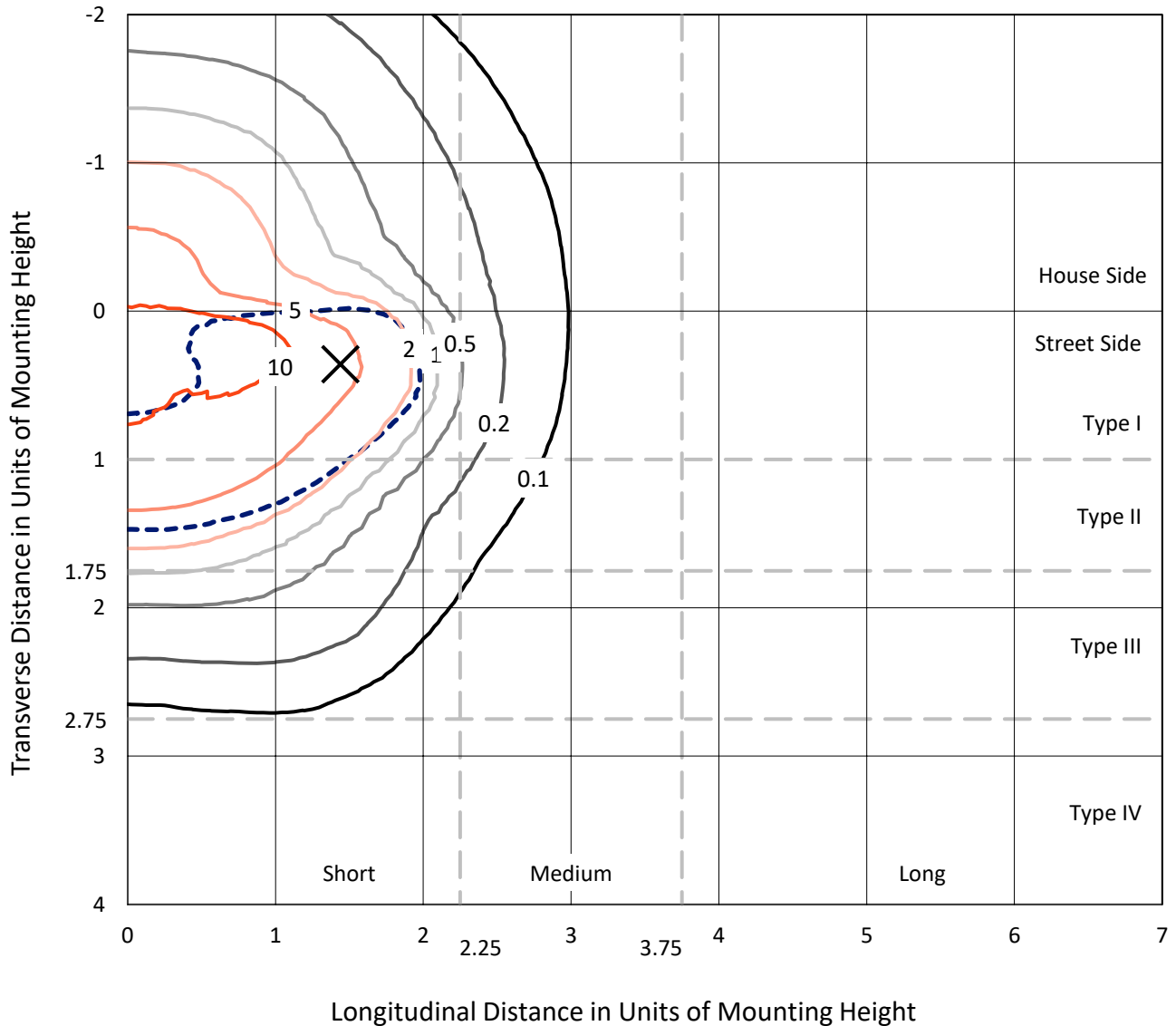
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

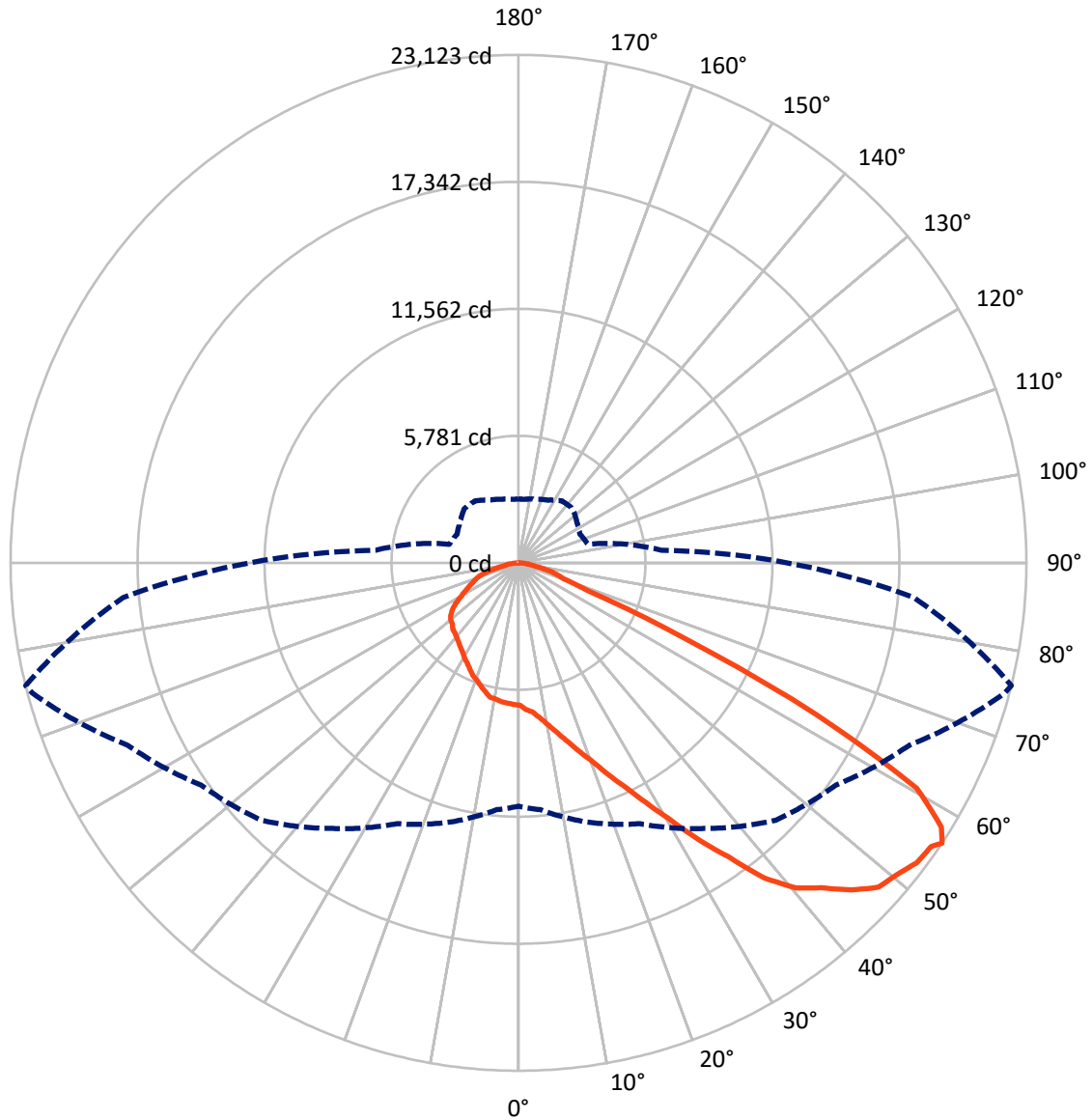
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical



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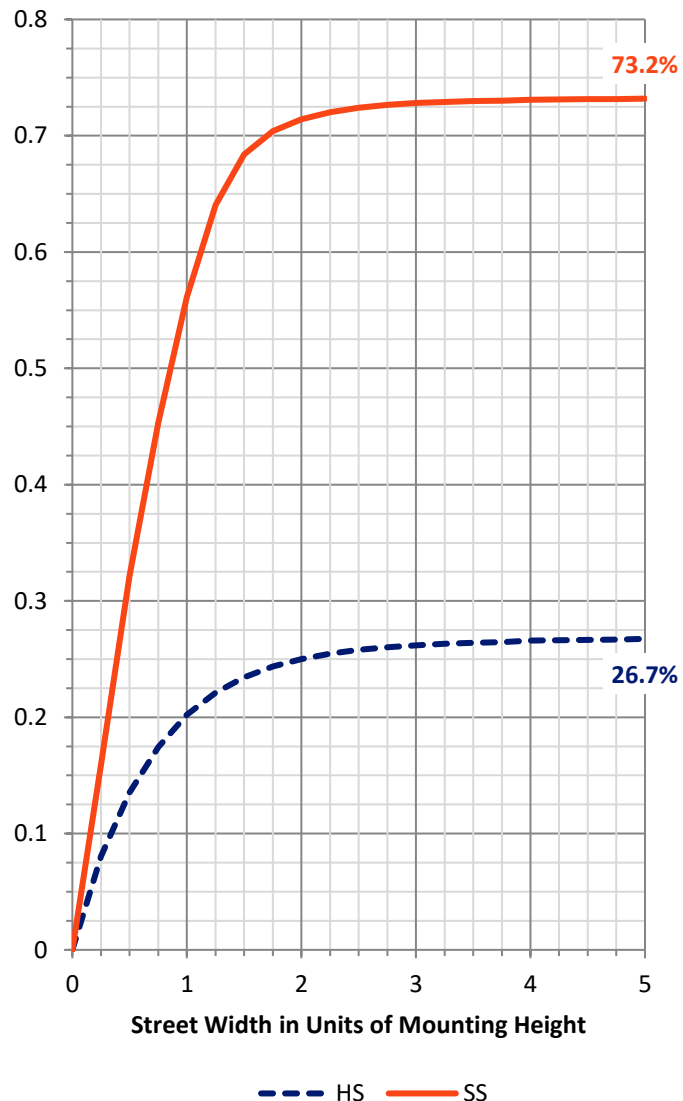
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9109.2	0.0	9109.2
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	24770.4	0.0	24770.4
	% Fixture	73.1	0.0	73.1
Total	Lumens	33879.6	0.0	33879.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	642.9	1.9
10°-20°	2019.4	6.0
20°-30°	3531.7	10.4
30°-40°	5529.7	16.3
40°-50°	8044.1	23.7
50°-60°	8840.9	26.1
60°-70°	3946.2	11.6
70°-80°	1139.8	3.4
80°-90°	184.9	0.5
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°	33879.6	100.0
0°-180°	33879.6	100.0

Coefficient of Utilization



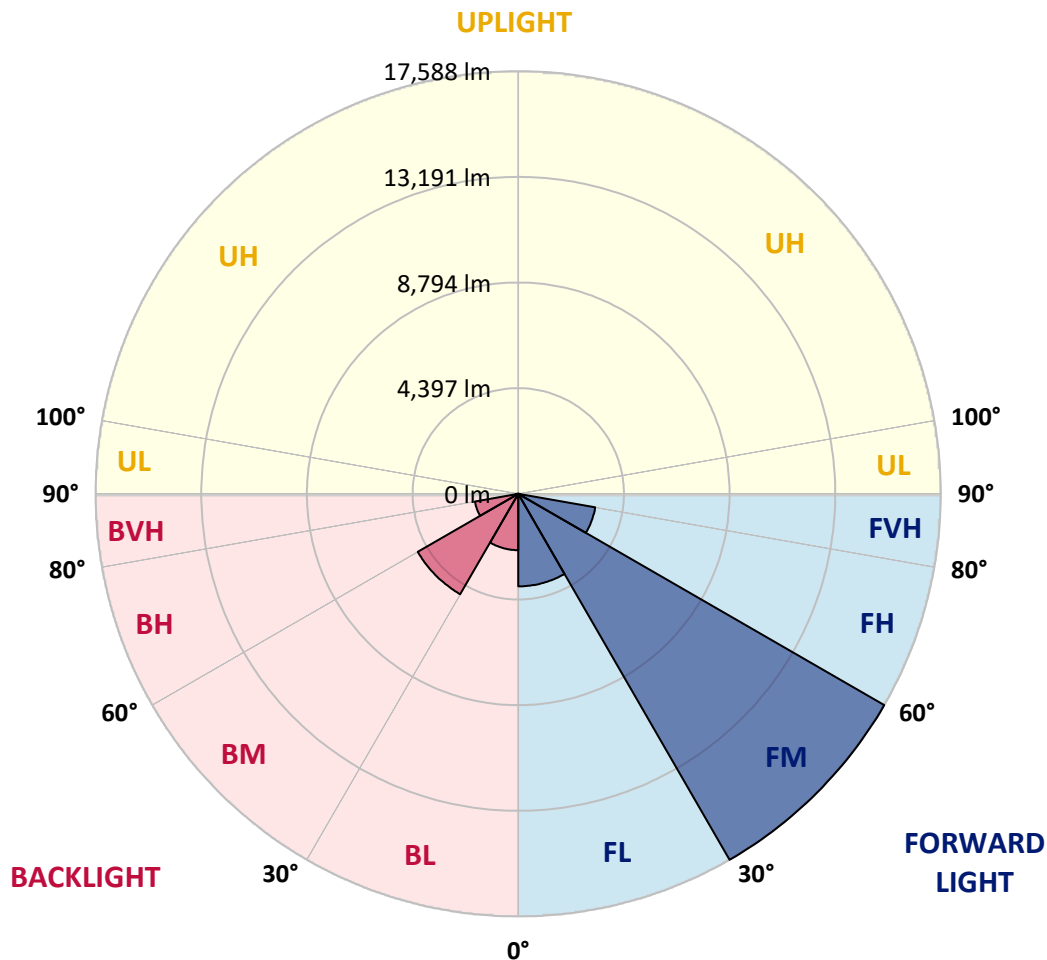
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3850.0	11.4			
FM (30°-60°)	17587.5	51.9			
FH (60°-80°)	3253.2	9.6			G2/5000
FVH (80°-90°)	79.6	0.2			G1/100
BL (0°-30°)	2344.0	6.9	B3/2500		
BM (30°-60°)	4827.1	14.2	B3/5000		
BH (60°-80°)	1832.8	5.4	B3/2500		G3/2500
BVH (80°-90°)	105.3	0.3			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°	6482.5	6482.5	6482.5	6482.5	6482.5	6482.5	6482.5	6482.5	6482.5	6482.5	6482.5
2.5°	7141.2	7027.0	7018.3	6987.5	7005.0	6926.0	6842.6	6732.8	6618.5	6688.9	6521.9
5°	7641.9	7488.1	7549.7	7444.3	7457.4	7352.1	7180.7	7053.3	6912.9	6829.4	6710.8
7.5°	7817.6	7830.7	7874.6	7857.1	7769.2	7769.2	7655.1	7431.1	7185.1	7136.8	6939.2
10°	8054.7	8059.1	8010.8	8023.9	8147.0	8089.9	7988.9	7892.2	7576.0	7518.9	7167.6
12.5°	8138.2	8059.1	8138.2	8208.4	8353.4	8432.4	8410.4	8340.2	8002.0	7962.5	7448.7
15°	8151.3	8103.0	8168.9	8327.0	8454.4	8788.2	8955.1	8906.8	8458.7	8463.2	7764.9
17.5°	8089.9	8155.7	8182.1	8318.3	8612.5	8924.3	9407.4	9473.3	9104.4	9047.3	8164.5
20°	8173.3	8125.0	8160.1	8283.1	8674.0	9161.5	9793.9	10228.7	9710.5	9670.9	8577.4
22.5°	8493.9	8428.1	8419.3	8498.3	8779.4	9284.4	10202.3	10984.2	10448.3	10470.3	9091.2
25°	8744.2	8779.4	8748.6	8744.2	8919.9	9468.9	10742.6	11884.5	11449.7	11322.3	9697.3
27.5°	9174.6	9258.1	9196.6	9280.0	9240.6	9745.6	11129.0	12881.4	12530.0	12358.8	10246.3
30°	9772.0	9815.8	9758.8	9758.8	9640.2	10132.1	11480.4	13922.3	13777.4	13544.6	10891.9
32.5°	10558.1	10624.0	10509.8	10443.9	10426.3	10707.4	12112.9	14950.0	15195.9	14998.3	11748.3
35°	11599.0	11559.4	11423.3	11361.8	11124.6	11590.2	13052.7	16131.4	16777.0	16425.7	12784.8
37.5°	12516.9	12455.4	12446.6	12104.1	12161.2	12543.3	13852.1	17027.4	18309.8	18208.7	13878.4
40°	13373.3	13430.4	13522.6	13329.4	13241.5	13663.2	14783.1	17712.5	19500.0	19460.4	14721.7
42.5°	14291.2	14238.5	14401.0	14238.5	14106.8	14704.0	15793.3	18186.8	20545.3	20220.3	15604.4
45°	15621.9	15455.1	15512.2	15525.3	15428.7	15648.3	16210.4	18529.4	21278.7	21243.6	16250.0
47.5°	16733.1	16737.5	16640.9	16566.2	16272.0	16491.5	16676.0	18744.6	22121.9	22064.9	16500.3
50°	17146.0	17088.8	17369.9	17532.5	17550.0	17102.1	17040.5	18863.2	22565.5	22315.2	16750.6
52.5°	15661.5	15714.2	16157.8	17124.0	17681.8	17730.1	17466.5	19109.1	22745.6	22692.9	16952.7
55°	12604.7	12859.4	13588.5	14704.0	16026.0	17479.7	17927.7	19363.8	22842.2	22798.3	17848.6
56°	11080.7	11278.4	12227.0	13101.0	14761.1	16570.6	17637.9	19636.2	22916.9	23123.3	18059.4
57.5°	8919.9	9148.3	9829.1	10821.6	12780.4	14840.2	16838.5	19302.4	22627.1	22706.1	18213.2
60°	5577.7	5599.6	6416.5	7071.0	8450.0	10461.5	12850.7	16794.6	20940.6	20826.3	16359.8
62.5°	3658.4	3662.9	4405.1	4940.9	5568.9	6030.0	7562.8	11137.9	15450.7	15248.6	11647.3
65°	2569.3	2626.3	3201.7	3917.6	4172.3	3930.7	3882.4	5872.0	8630.1	8340.2	6258.4
67.5°	1879.7	1884.1	2393.6	3162.1	3531.1	2990.9	2428.7	2867.9	3416.9	3408.1	2898.7
70°	1242.9	1295.6	1686.5	2362.9	2784.4	2402.4	1985.1	2051.0	2174.0	2174.0	2156.4
72.5°	724.7	773.0	1032.1	1497.6	1563.5	1502.0	1572.3	1756.7	1835.8	1831.4	1809.4
75°	412.9	434.8	491.9	623.7	777.4	917.9	1155.1	1330.7	1409.8	1458.1	1401.0
77.5°	241.6	254.7	289.9	355.7	404.0	496.3	628.0	751.0	856.4	843.2	852.1
80°	127.4	127.4	162.5	210.8	281.1	351.3	417.3	487.5	544.6	557.8	571.0
82.5°	74.7	79.1	105.4	153.7	202.0	250.3	320.6	368.9	421.6	426.0	434.8
85°	39.5	43.9	65.9	101.0	136.2	153.7	158.1	149.3	162.5	153.7	175.7
87.5°	13.2	13.2	21.9	17.5	17.5	21.9	26.4	26.4	35.2	35.2	35.2
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°	6482.5	6482.5	6482.5	6482.5	6482.5	6482.5	6482.5	6482.5	6482.5	6482.5	6482.5
2.5°	6517.5	6517.5	6442.9	6302.4	6280.4	6223.3	6170.6	6166.2	6126.7	6091.6	6074.0
5°	6640.5	6504.4	6394.6	6267.2	6117.9	6047.7	5968.6	5880.7	5845.6	5880.7	5876.3
7.5°	6781.1	6666.9	6337.5	6100.4	5929.0	5858.8	5770.9	5678.7	5687.5	5687.5	5626.0
10°	6917.3	6763.5	6236.5	5933.4	5683.1	5630.4	5582.1	5617.2	5661.2	5669.9	5630.4
12.5°	7145.6	6798.6	6188.2	5766.6	5608.5	5494.2	5525.0	5621.6	5713.9	5687.5	5718.2
15°	7316.9	6829.4	5968.6	5595.2	5397.6	5450.3	5560.2	5626.0	5779.7	5762.2	5792.9
17.5°	7483.8	6846.9	5753.4	5366.9	5283.4	5428.4	5511.9	5700.7	5749.0	5854.4	5894.0
20°	7826.3	6882.1	5533.8	5226.4	5200.0	5366.9	5511.9	5599.6	5705.1	5797.3	5797.3
22.5°	8002.0	6864.6	5388.8	5041.9	5125.4	5230.8	5362.5	5511.9	5511.9	5599.6	5604.1
25°	8221.7	6794.2	5160.4	4954.0	5015.5	5116.6	5265.9	5213.2	5270.3	5270.3	5340.5
27.5°	8472.0	6644.9	4962.8	4796.0	4918.9	5028.7	5050.7	5015.5	4949.7	4940.9	4914.5
30°	8674.0	6460.5	4817.9	4743.3	4844.3	4905.7	4835.5	4760.8	4646.6	4637.9	4576.3
32.5°	8950.7	6232.1	4637.9	4611.5	4725.6	4730.1	4708.1	4593.9	4427.0	4356.8	4286.5
35°	9416.2	6100.4	4501.7	4541.2	4576.3	4563.2	4523.6	4400.7	4233.8	4203.1	4176.7
37.5°	9758.8	6003.7	4361.2	4409.5	4440.2	4457.8	4339.2	4203.1	4207.5	4145.9	4128.4
40°	10145.3	5942.3	4247.0	4268.9	4273.3	4330.4	4185.4	4119.6	4150.4	4110.8	4137.1
42.5°	10641.5	5959.8	4128.4	4110.8	4194.2	4172.3	4102.1	4014.2	4031.7	3913.2	3930.7
45°	10905.1	6078.4	4058.1	3979.0	4071.3	4066.9	3974.7	3891.2	3785.8	3557.4	3566.3
47.5°	11080.7	6109.1	3891.2	3838.5	3935.1	3992.2	3886.8	3693.6	3544.2	3381.8	3342.2
50°	11260.8	6166.2	3812.2	3702.3	3741.9	3878.0	3746.3	3561.8	3416.9	3271.9	3293.9
52.5°	11418.9	6276.0	3658.4	3495.9	3566.3	3715.6	3645.3	3421.3	3263.2	3144.6	3109.4
55°	12121.6	6521.9	3399.3	3188.5	3355.4	3544.2	3504.7	3232.5	3061.1	2999.7	2990.9
56°	12231.4	6530.8	3263.2	3083.1	3236.8	3487.2	3438.9	3149.0	2995.3	2898.7	2903.1
57.5°	12249.0	6425.3	3069.9	2986.5	3118.2	3403.7	3342.2	3083.1	2872.3	2784.4	2758.1
60°	10777.7	5015.5	2828.4	2775.7	2929.4	3149.0	3127.0	2903.1	2665.9	2564.9	2613.2
62.5°	7347.7	3676.0	2639.5	2630.7	2709.8	2925.0	2867.9	2665.9	2468.3	2402.4	2371.6
65°	4277.7	2788.9	2455.1	2419.9	2485.8	2600.0	2639.5	2428.7	2222.3	2178.4	2165.2
67.5°	2525.3	2305.8	2217.9	2160.8	2138.8	2209.2	2239.8	2116.9	1910.4	1849.0	1901.7
70°	2112.5	2051.0	2055.4	1958.8	1906.1	1857.7	1831.4	1721.7	1550.3	1471.3	1449.3
72.5°	1822.7	1796.3	1778.7	1690.9	1642.6	1532.8	1418.6	1308.8	1181.4	1115.5	1119.9
75°	1392.3	1383.5	1392.3	1348.3	1264.9	1177.0	1071.6	931.1	834.4	751.0	768.6
77.5°	830.1	856.4	869.6	852.1	816.9	737.8	672.0	579.7	487.5	421.6	412.9
80°	571.0	592.9	614.9	592.9	557.8	500.7	430.4	360.1	294.3	259.1	250.3
82.5°	434.8	456.7	470.0	448.0	404.0	342.6	294.3	245.9	193.2	158.1	149.3
85°	158.1	180.1	175.7	210.8	228.4	219.6	188.9	144.9	109.8	79.1	74.7
87.5°	43.9	39.5	43.9	43.9	43.9	39.5	35.2	35.2	35.2	21.9	17.5
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)