

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: P647130

Luminaire Tested: **GALN-SA8C-835-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647130
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8C-835-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44704.6 lumens
Efficiency: N/A
Efficacy: 104.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G5

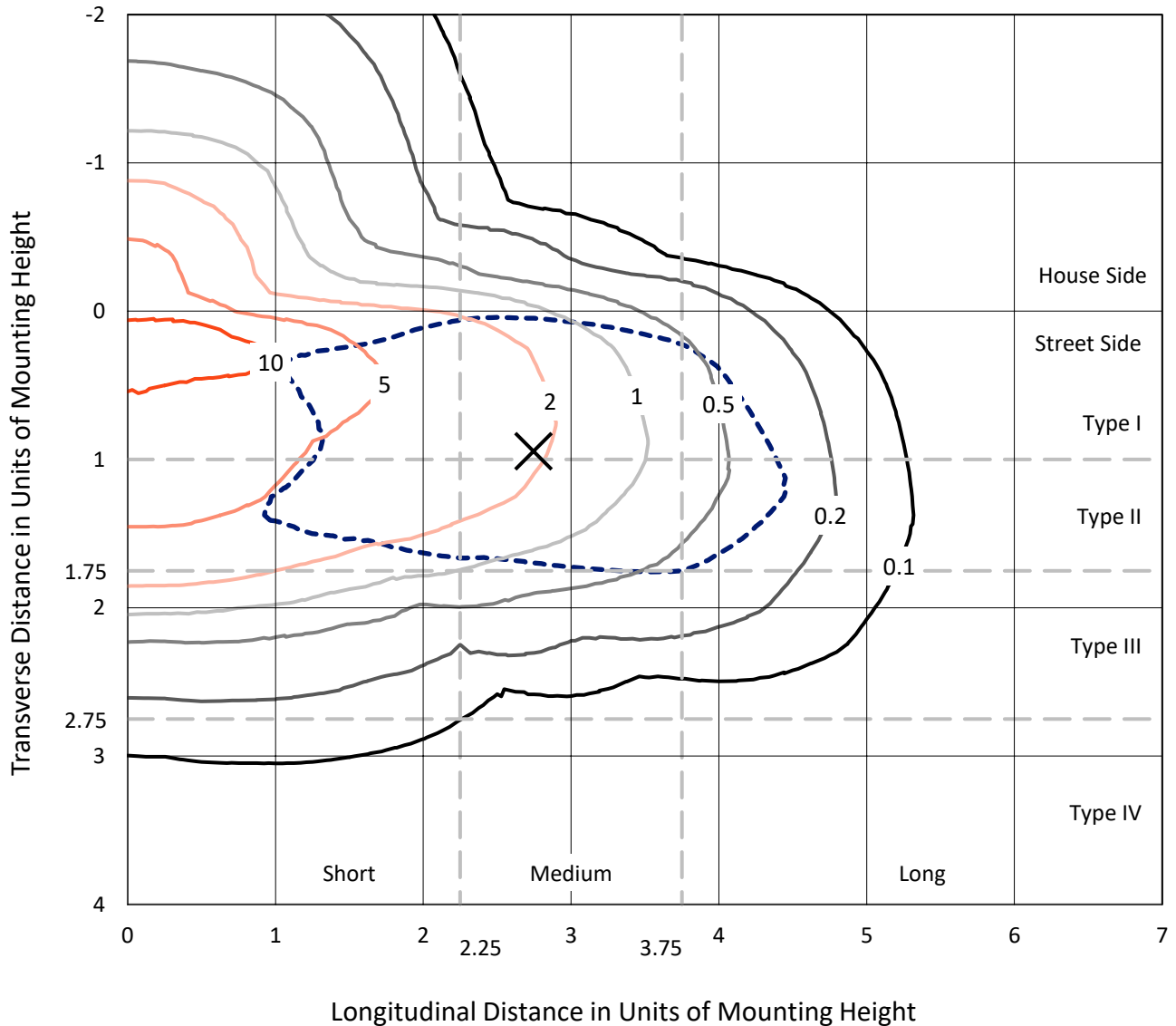
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

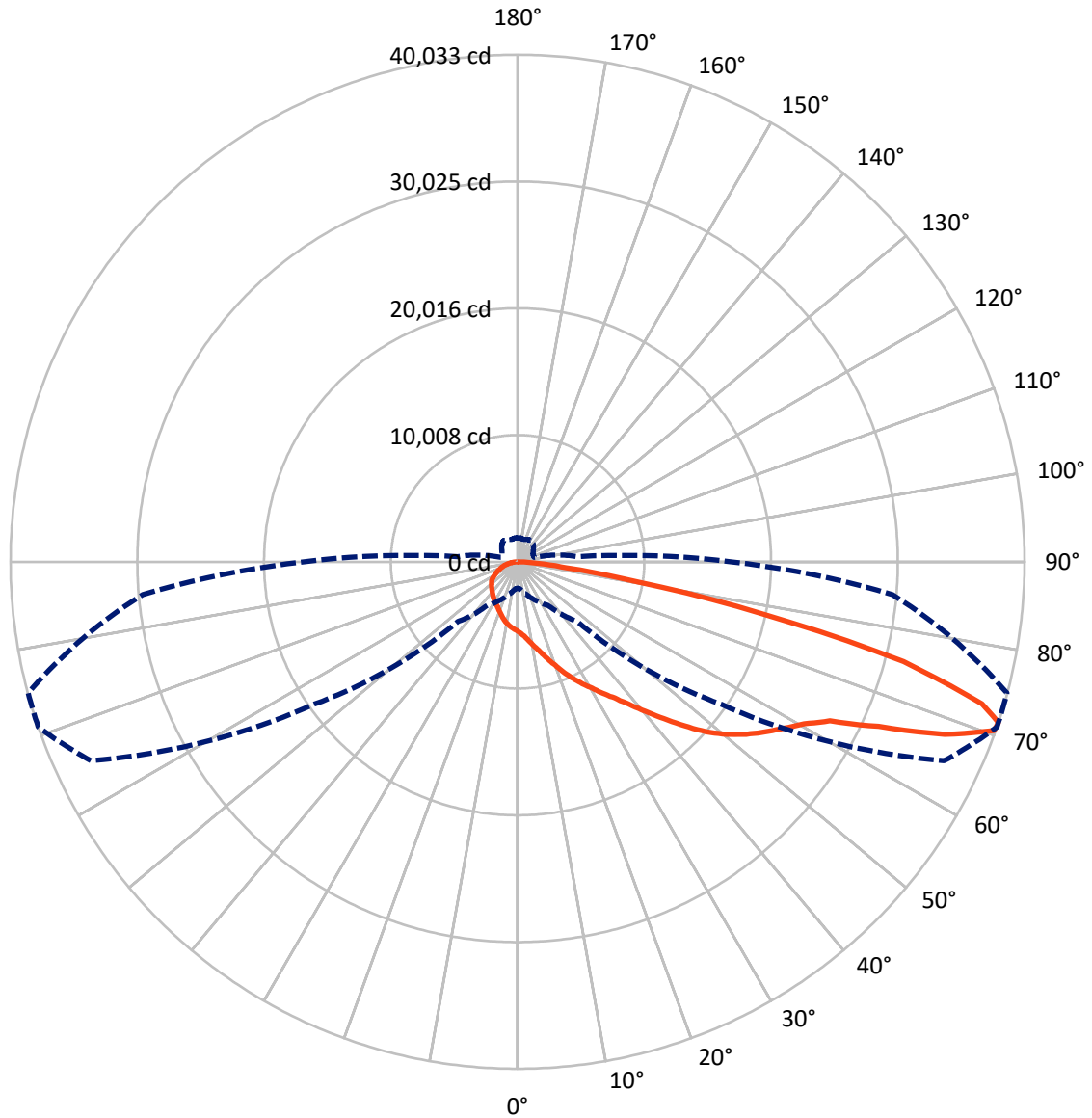
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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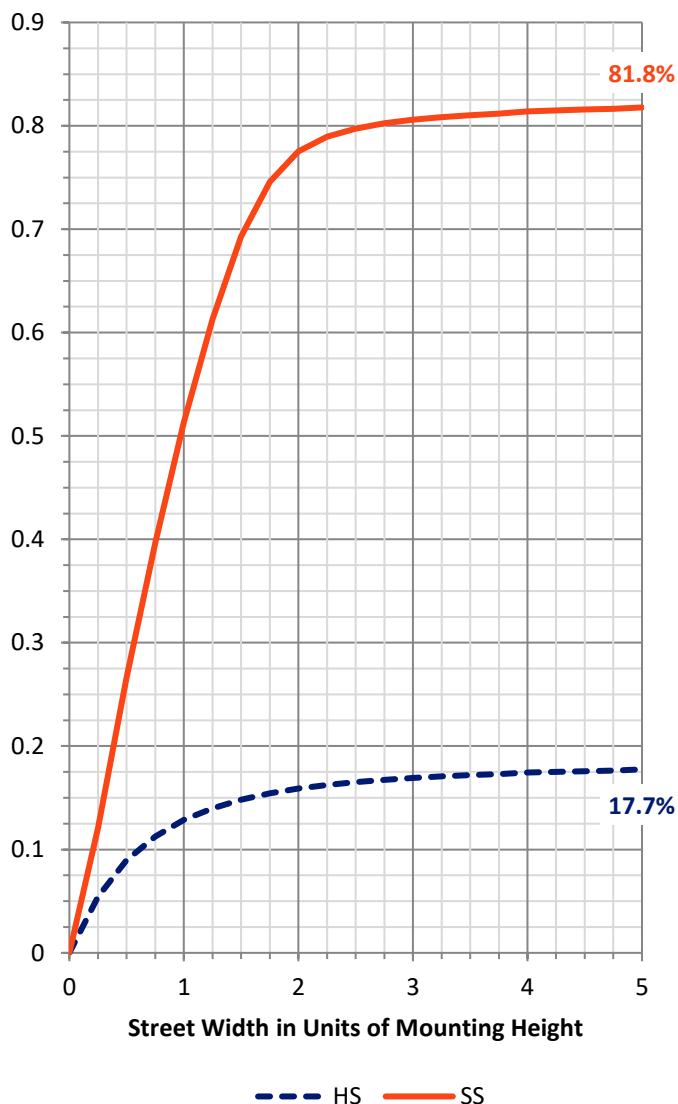
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8040.0	0.0	8040.0
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	36664.6	0.0	36664.6
	% Fixture	82.0	0.0	82.0
Total	Lumens	44704.6	0.0	44704.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	550.9	1.2
10°-20°	1789.8	4.0
20°-30°	3127.8	7.0
30°-40°	4652.3	10.4
40°-50°	6854.5	15.3
50°-60°	9596.4	21.5
60°-70°	10733.2	24.0
70°-80°	6556.3	14.7
80°-90°	843.4	1.9
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°	44704.6	100.0
0°-180°	44704.6	100.0

Coefficient of Utilization

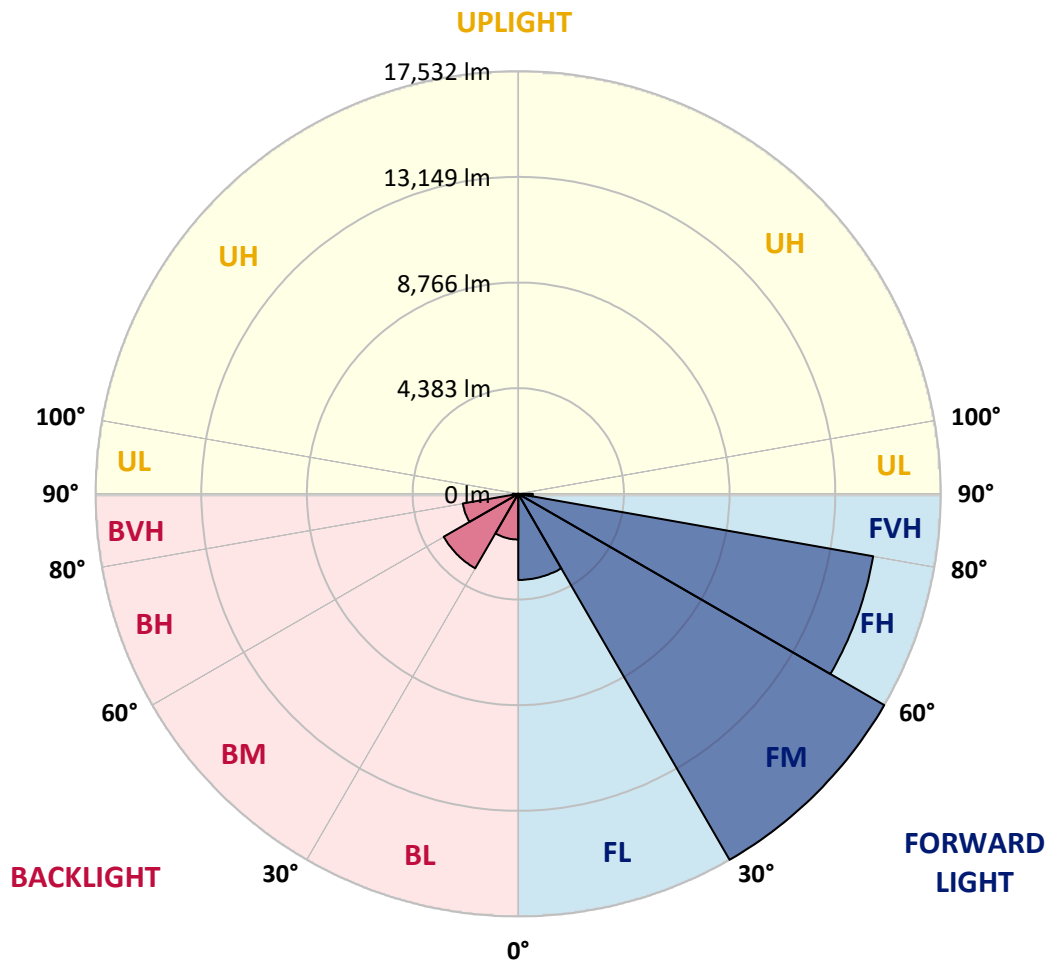


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3571.9	8.0			
FM (30°-60°)	17532.3	39.2			
FH (60°-80°)	14953.6	33.4			G5
FVH (80°-90°)	606.9	1.4			G4/750
BL (0°-30°)	1896.6	4.2	B3/2500		
BM (30°-60°)	3570.9	8.0	B3/5000		
BH (60°-80°)	2336.0	5.2	B3/2500		G3/2500
BVH (80°-90°)	236.5	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	5486.6	5486.6	5486.6	5486.6	5486.6	5486.6	5486.6	5486.6	5486.6	5486.6	5486.6
2.5°	6091.0	6061.6	6064.0	6022.2	5968.2	5909.2	5825.7	5752.0	5693.0	5658.6	5557.9
5°	6749.5	6720.0	6683.2	6592.3	6553.0	6408.0	6223.8	6056.7	5928.9	5857.6	5656.2
7.5°	7282.7	7275.3	7265.5	7213.9	7113.2	6911.7	6754.5	6464.5	6275.4	6140.2	5796.2
10°	7611.9	7624.2	7631.6	7641.5	7599.6	7494.0	7277.8	6911.7	6670.9	6498.9	5978.0
12.5°	7779.0	7791.3	7833.1	7924.0	7980.5	7968.2	7791.3	7432.6	7100.9	6874.8	6172.2
15°	7882.2	7901.9	7975.6	8096.0	8285.2	8405.6	8319.6	7987.9	7624.2	7356.4	6403.1
17.5°	7995.3	8017.4	8098.5	8270.4	8518.6	8779.1	8872.4	8587.4	8191.8	7872.4	6661.1
20°	8059.2	8088.6	8204.1	8430.2	8720.1	9098.5	9408.1	9258.2	8825.7	8471.9	6958.4
22.5°	8162.3	8186.9	8285.2	8526.0	8872.4	9346.7	9943.7	9911.8	9530.9	9073.9	7285.2
25°	8442.5	8481.8	8530.9	8675.9	9010.1	9599.7	10388.5	10609.6	10214.0	9702.9	7584.9
27.5°	8970.8	9002.6	9000.2	9019.8	9209.0	9818.4	10774.2	11300.0	10892.2	10339.3	7874.9
30°	9572.7	9585.0	9594.8	9550.6	9592.4	10042.0	11128.0	11983.0	11575.2	10992.9	8127.9
32.5°	10304.9	10329.5	10245.9	10132.9	10098.5	10373.7	11420.4	12666.1	12383.5	11656.3	8378.6
35°	11169.8	11233.7	11064.1	10865.1	10725.1	10850.3	11813.5	13363.9	13211.6	12504.0	8710.2
37.5°	12157.5	12236.2	12078.9	11688.2	11489.2	11523.6	12327.1	14226.3	14258.3	13469.6	9204.2
40°	12965.9	13069.1	13074.0	12521.2	12218.9	12258.3	12978.1	15155.1	15521.3	14663.7	9786.5
42.5°	13499.1	13599.8	13705.5	13381.2	13064.2	13287.7	13737.4	16162.5	16941.4	16113.4	10599.7
45°	14083.8	14174.7	14233.8	14086.3	13909.4	14489.3	14653.9	17233.8	18454.9	17732.6	11489.2
47.5°	14762.0	14862.7	14919.3	14779.2	14712.9	15543.3	15641.6	18233.8	20071.7	19305.1	12472.0
50°	15666.2	15742.4	15712.9	15624.5	15609.7	16351.7	16590.0	19170.0	21405.9	20998.0	13491.7
52.5°	16791.5	16882.4	16914.4	16789.1	16732.6	16929.1	17354.2	20022.6	22619.7	22452.6	14580.2
55°	17472.1	17617.1	18103.6	18300.2	18435.3	17676.1	18177.3	20963.6	23708.1	23985.8	15749.7
57.5°	16599.9	16786.6	17875.1	18857.9	20128.2	19543.4	19344.4	21946.4	24796.6	25472.3	17150.3
60°	14472.0	14513.8	15916.8	17727.7	20283.0	21944.0	21779.4	23509.1	25976.0	26971.1	18995.5
62.5°	10039.5	10128.0	11786.5	14676.0	18371.5	22808.9	25921.9	26206.9	27666.4	29214.4	21700.7
65°	5177.0	5061.5	6572.7	9223.8	13850.4	20754.7	29278.3	31167.8	31332.4	32723.1	25509.2
67.5°	3186.8	3238.4	3946.0	5385.9	8189.4	15083.9	28926.9	37229.3	36362.0	37030.3	29044.8
70°	2393.2	2457.1	2943.5	3685.6	4992.7	8624.3	23263.4	38698.7	39910.0	39738.0	30121.1
71°	2081.1	2147.5	2653.6	3353.9	4194.2	6656.2	19600.0	37160.6	40032.8	40003.3	29715.6
72.5°	1774.0	1815.8	2211.3	2840.3	3535.7	4666.0	14725.2	33327.5	38325.2	39305.5	28268.4
75°	1393.1	1425.1	1602.0	2167.1	2783.9	2864.9	7901.9	24985.8	31477.4	33344.7	23533.7
77.5°	1135.2	1157.3	1248.2	1609.4	2147.5	2029.5	4145.0	16263.2	19720.3	21600.0	13862.7
80°	901.7	926.3	980.4	1091.0	1609.4	1447.2	1977.9	8241.0	9526.0	9506.3	5533.3
82.5°	700.2	707.6	771.5	801.0	1100.7	1027.1	1071.3	3489.0	3865.0	3992.8	1997.6
85°	442.2	464.4	683.1	614.3	658.5	602.0	528.3	1385.8	1707.6	1683.1	798.6
87.5°	135.1	142.5	231.0	260.4	292.4	262.9	194.1	407.9	498.8	540.6	199.0
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°	5486.6	5486.6	5486.6	5486.6	5486.6	5486.6	5486.6	5486.6	5486.6	5486.6	5486.6
2.5°	5518.6	5491.5	5395.7	5317.0	5243.4	5162.2	5093.5	5073.8	5056.6	5049.3	5046.8
5°	5570.2	5489.1	5299.9	5145.1	5022.2	4909.2	4837.9	4806.0	4774.0	4774.0	4783.9
7.5°	5643.9	5496.4	5204.1	4973.1	4818.3	4712.6	4661.0	4656.1	4663.5	4670.8	4673.3
10°	5724.9	5491.5	5064.0	4776.5	4639.0	4589.8	4592.2	4634.0	4673.3	4702.8	4707.7
12.5°	5803.6	5462.1	4899.4	4592.2	4503.8	4513.6	4582.4	4675.8	4751.9	4793.7	4796.2
15°	5892.0	5415.4	4700.3	4417.8	4388.3	4464.5	4592.2	4734.7	4850.2	4919.0	4926.4
17.5°	5965.8	5336.7	4491.5	4248.2	4285.1	4425.1	4602.1	4786.3	4926.4	5012.4	5027.2
20°	6049.3	5236.0	4275.3	4086.1	4191.7	4381.0	4582.4	4781.5	4926.4	5009.9	5029.6
22.5°	6115.6	5093.5	4068.9	3953.4	4108.2	4326.9	4516.1	4675.8	4793.7	4837.9	4867.4
25°	6142.6	4914.1	3874.8	3845.3	4041.8	4238.5	4366.2	4457.1	4494.0	4489.0	4501.3
27.5°	6127.9	4707.7	3707.7	3759.3	3958.3	4100.8	4164.7	4157.3	4091.0	4029.6	4059.1
30°	6066.4	4462.0	3567.7	3670.9	3850.2	3928.9	3919.0	3823.2	3697.9	3582.4	3589.7
32.5°	5955.9	4196.6	3437.4	3570.1	3697.9	3732.2	3665.9	3540.6	3361.3	3211.4	3189.2
35°	5862.6	3943.6	3322.0	3454.6	3545.5	3528.4	3464.5	3302.3	3140.1	3007.4	2985.3
37.5°	5847.8	3727.4	3211.4	3324.4	3376.0	3351.4	3272.8	3135.2	3076.3	2975.5	2963.2
40°	5926.4	3575.0	3098.3	3186.8	3211.4	3191.7	3105.7	3027.1	3081.2	3056.6	3056.6
42.5°	6140.2	3493.9	2997.6	3049.2	3068.9	3083.6	3022.1	2955.8	3022.1	2909.2	2872.3
45°	6479.2	3496.4	2906.7	2914.1	2973.1	3024.7	2982.8	2884.6	2850.2	2624.1	2579.9
47.5°	6978.0	3580.0	2833.0	2786.3	2891.9	2978.0	2918.9	2776.4	2624.1	2474.3	2447.3
50°	7560.3	3729.8	2766.7	2653.6	2783.9	2918.9	2874.8	2707.7	2550.4	2459.5	2442.3
52.5°	8206.5	3919.0	2685.5	2506.2	2651.2	2891.9	2884.6	2697.8	2481.6	2420.2	2405.5
55°	9005.1	4105.7	2584.8	2334.2	2533.2	2869.9	2857.6	2616.8	2466.9	2422.7	2417.7
57.5°	9933.8	4376.0	2439.8	2159.7	2398.1	2778.9	2751.9	2567.6	2417.7	2385.8	2383.4
60°	11430.2	4796.2	2233.4	2000.0	2260.5	2619.2	2653.6	2484.1	2339.1	2331.8	2329.3
62.5°	13398.3	5385.9	2019.7	1835.4	2100.8	2412.8	2511.1	2371.1	2255.6	2292.5	2297.3
65°	16115.9	5882.2	1798.6	1695.4	1923.9	2213.8	2375.9	2265.4	2162.2	2233.4	2233.4
67.5°	17887.4	5892.0	1597.1	1550.4	1744.5	2046.8	2233.4	2140.1	2041.8	2162.2	2167.1
70°	17518.8	5162.2	1430.0	1398.0	1570.1	1867.4	2076.2	2002.5	1889.5	1997.6	1958.3
71°	16924.2	4756.9	1363.7	1339.1	1501.2	1781.4	2002.5	1941.1	1828.1	1899.3	1877.2
72.5°	15975.8	4130.3	1255.5	1260.5	1398.0	1673.3	1899.3	1835.4	1722.4	1761.7	1754.3
75°	13504.0	3607.0	1073.7	1095.8	1201.5	1489.0	1692.9	1643.8	1528.3	1528.3	1520.9
77.5°	8442.5	2520.9	891.9	904.2	1019.7	1275.2	1454.6	1412.8	1302.2	1265.4	1255.5
80°	3149.9	1302.2	697.8	712.5	783.8	1004.9	1203.9	1164.6	1051.6	1009.8	970.5
82.5°	1191.6	653.6	513.5	501.3	577.4	766.6	943.5	896.8	808.4	707.6	678.2
85°	449.7	324.3	314.5	304.7	339.0	454.5	584.7	575.0	481.5	410.3	402.9
87.5°	117.9	105.6	122.9	90.9	95.8	86.0	88.5	36.9	17.2	7.4	4.9
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)