

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: P647080

Luminaire Tested: **GALN-SA7C-835-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647080
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7C-835-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33470.9 lumens
Efficiency: N/A
Efficacy: 88.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

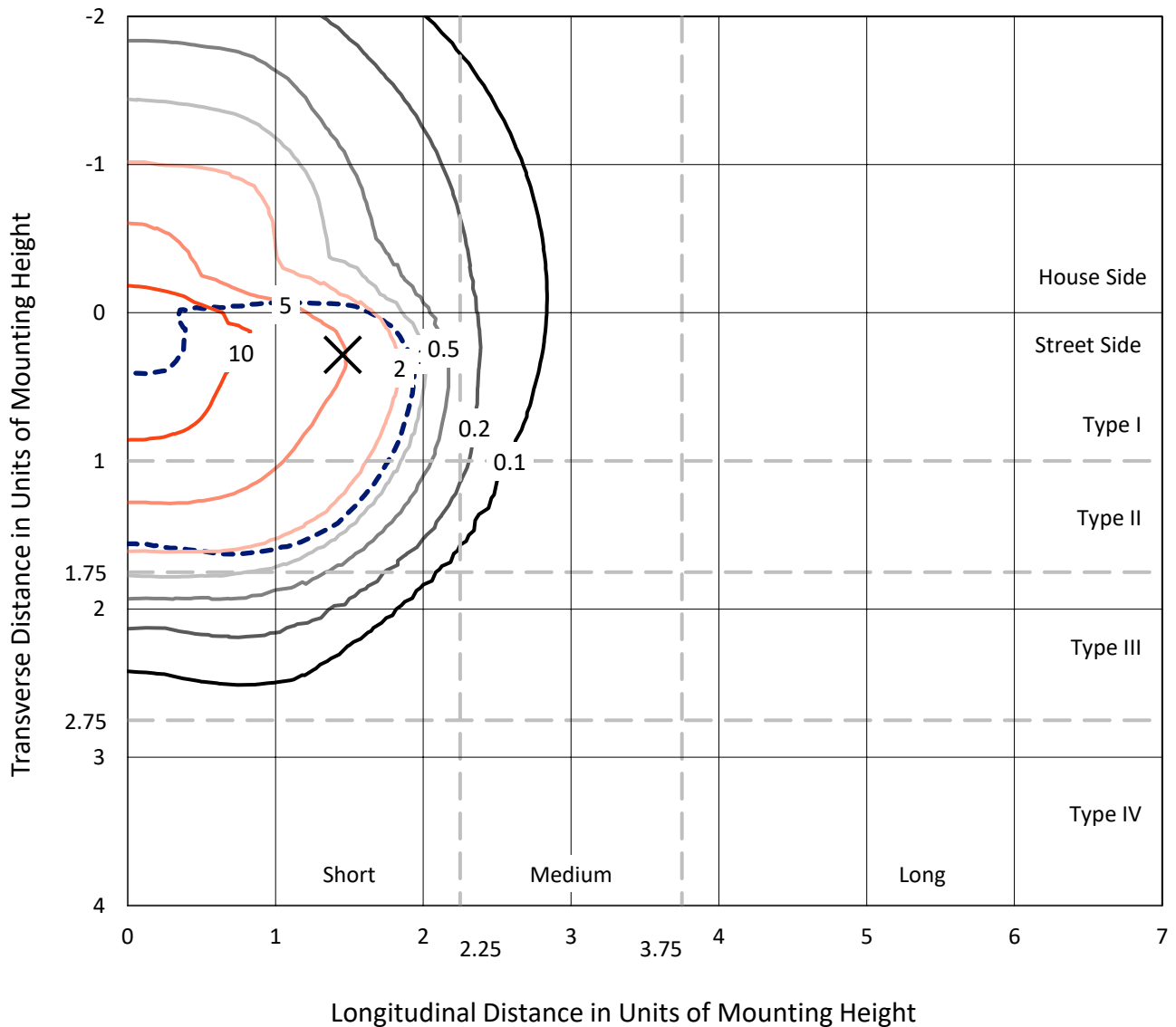
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

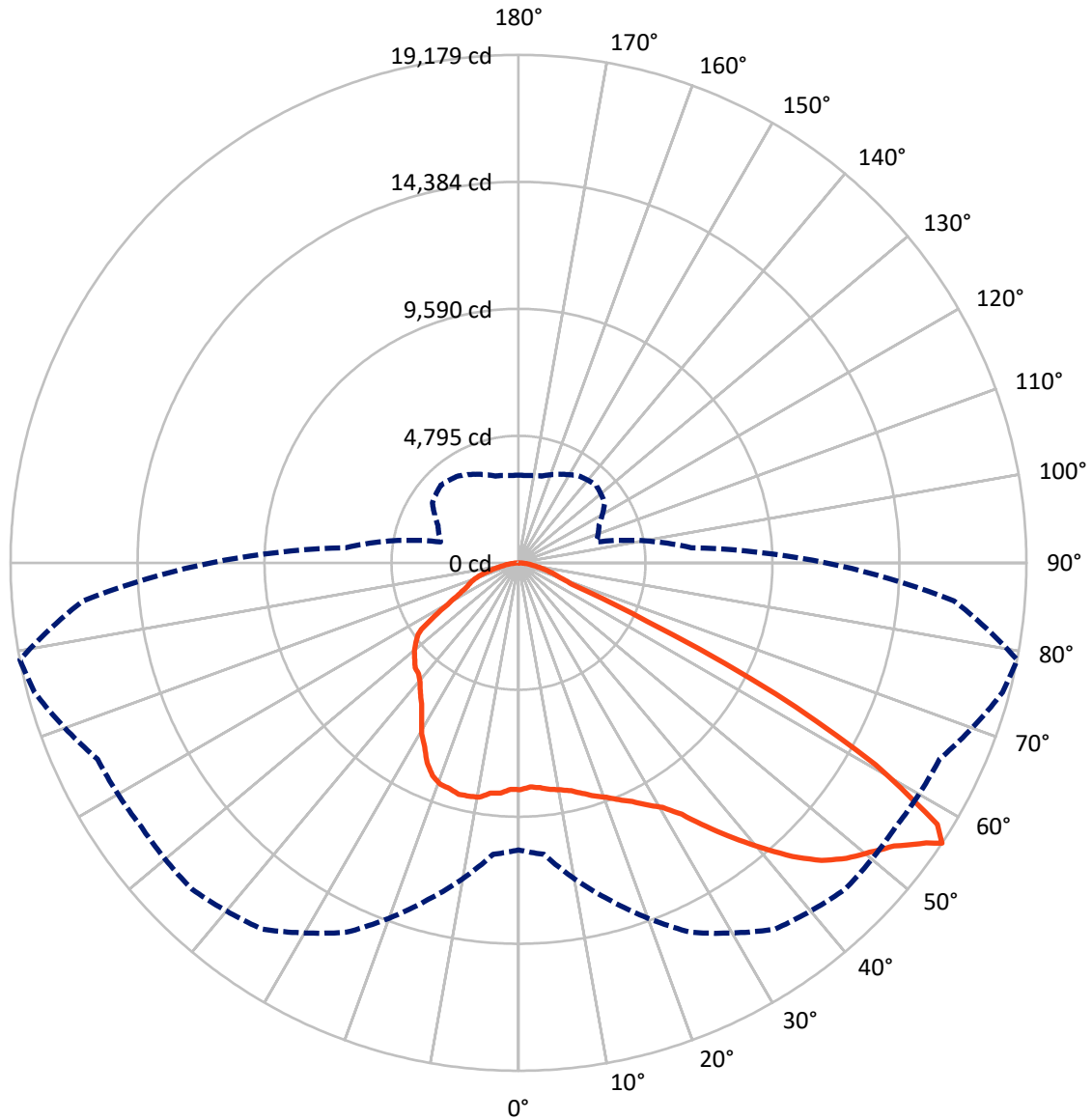
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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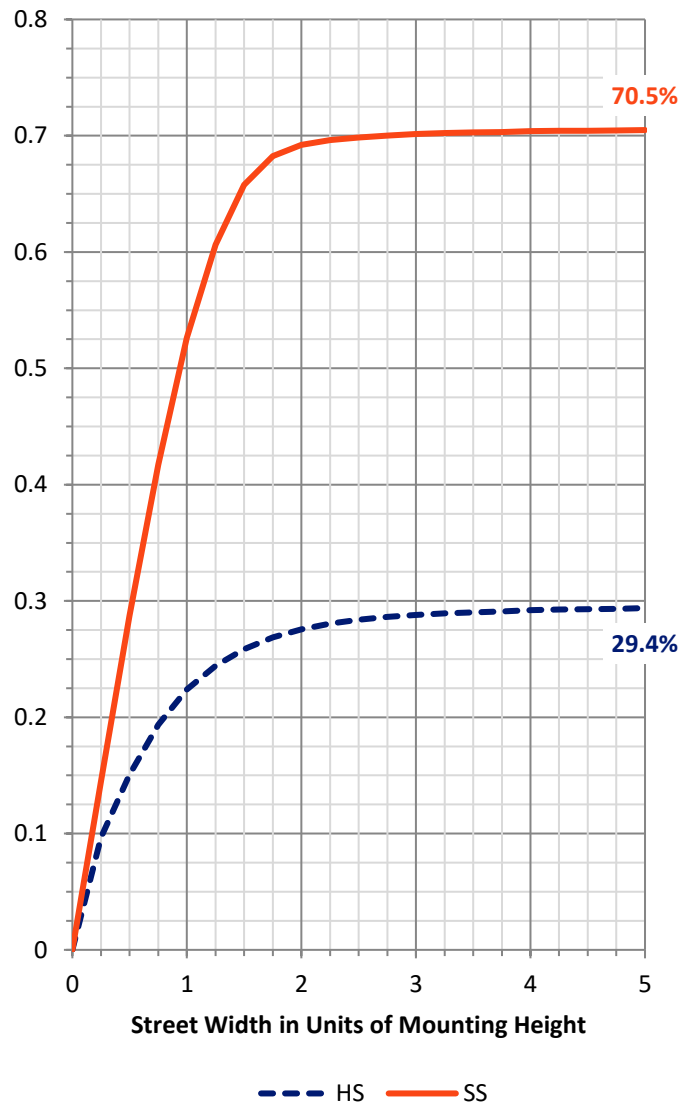
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9884.7	0.0	9884.7
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	23586.2	0.0	23586.2
	% Fixture	70.5	0.0	70.5
Total	Lumens	33470.9	0.0	33470.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	778.6	2.3
10°-20°	2130.9	6.4
20°-30°	3645.5	10.9
30°-40°	5587.2	16.7
40°-50°	7551.0	22.6
50°-60°	8672.6	25.9
60°-70°	3953.2	11.8
70°-80°	974.7	2.9
80°-90°	177.1	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°	33470.9	100.0
0°-180°	33470.9	100.0

Coefficient of Utilization



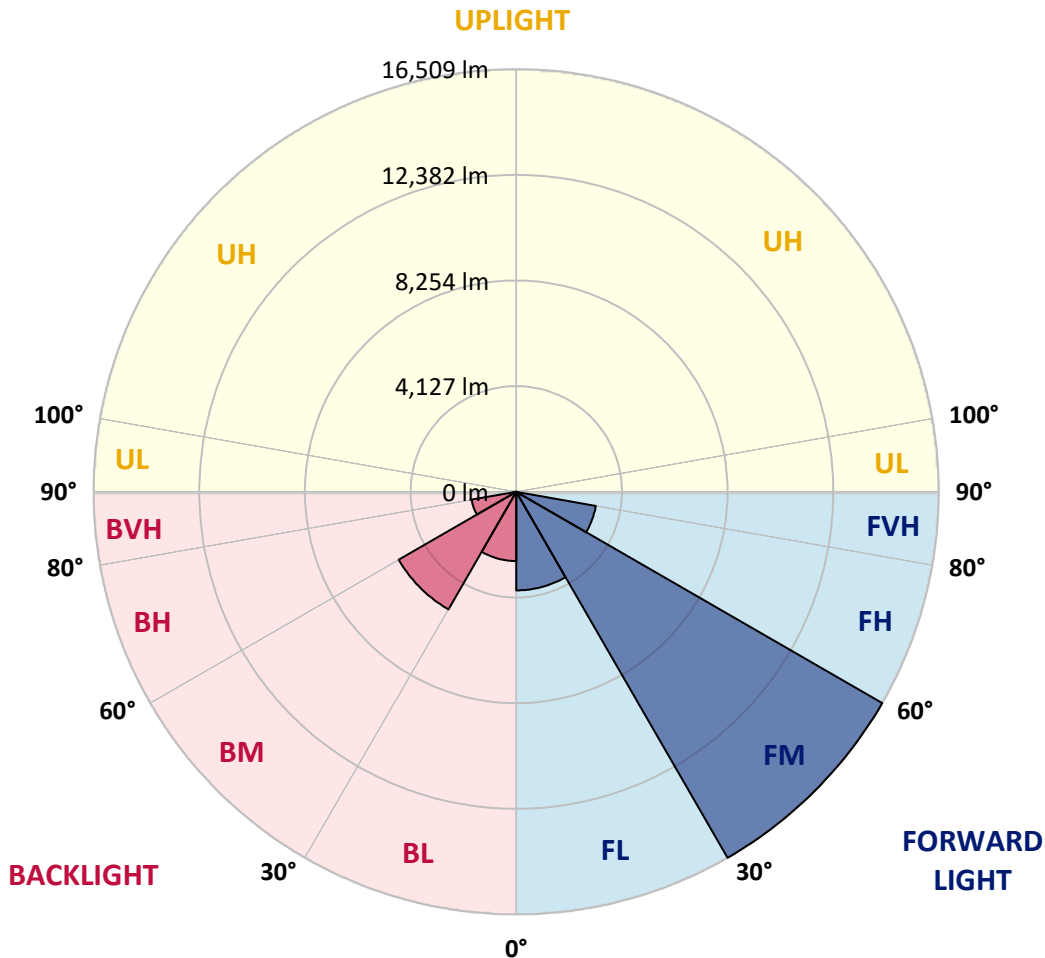
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3851.1	11.5			
FM (30°-60°)	16508.8	49.3			
FH (60°-80°)	3155.5	9.4			G2/5000
FVH (80°-90°)	70.7	0.2			G1/100
BL (0°-30°)	2703.9	8.1	B4/5000		
BM (30°-60°)	5302.0	15.8	B4/8500		
BH (60°-80°)	1772.4	5.3	B3/2500		G3/2500
BVH (80°-90°)	106.4	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	8563.9	8563.9	8563.9	8563.9	8563.9	8563.9	8563.9	8563.9	8563.9	8563.9	8563.9
2.5°	8147.0	8126.1	8176.2	8213.7	8259.5	8317.9	8347.1	8363.8	8509.6	8472.1	8584.7
5°	7971.8	7917.6	7955.1	7984.3	8063.6	8134.4	8213.7	8338.7	8472.1	8530.6	8668.1
7.5°	7817.6	7788.3	7780.0	7800.9	7909.3	8001.0	8138.6	8322.0	8538.8	8634.8	8714.0
10°	7563.2	7521.5	7584.1	7721.6	7750.8	7942.7	8101.1	8363.8	8551.4	8718.2	8951.6
12.5°	7450.6	7409.0	7421.5	7500.7	7705.0	7888.4	8076.1	8372.1	8768.2	8834.9	9147.6
15°	7629.9	7588.2	7600.7	7579.9	7775.9	7871.7	8167.8	8538.8	8918.3	9030.8	9364.4
17.5°	8038.5	8042.7	7988.5	7942.7	7896.8	8101.1	8305.4	8638.9	8976.6	9260.1	9510.3
20°	8818.2	8680.7	8572.2	8313.7	8242.9	8330.4	8588.9	8909.9	9214.3	9447.8	9731.3
22.5°	9418.6	9431.1	9276.8	8851.6	8697.3	8734.8	8955.8	9218.5	9552.1	9718.8	10044.0
25°	10290.0	10202.4	10035.6	9697.9	9351.9	9381.0	9543.7	9781.3	9873.1	9989.8	10344.2
27.5°	11086.3	11111.4	10782.0	10465.1	10035.6	9952.2	10244.1	10285.8	10131.6	10352.5	10473.5
30°	11895.2	11874.4	11657.5	11286.5	10865.4	10882.1	11011.3	10807.0	10594.4	10715.3	10798.7
32.5°	12733.2	12495.6	12487.3	12153.7	11832.7	11678.4	11520.0	11620.0	11290.6	11315.7	11236.4
35°	13404.5	13437.8	13246.1	13008.4	12850.0	12579.0	12145.3	12324.7	12262.1	12232.9	11891.0
37.5°	13892.3	13763.1	13858.9	13779.8	13629.7	13292.0	12841.7	13012.6	13041.8	13183.5	12787.4
40°	14292.6	14238.4	14492.7	14534.4	14430.1	13700.5	12891.7	13400.3	13838.1	14146.7	13675.5
42.5°	14484.4	14601.1	14868.0	15189.0	14955.5	14175.8	13150.2	13696.4	14672.0	15159.8	14517.8
45°	14742.9	14592.8	14988.9	15576.8	15580.9	14576.1	13400.3	14096.7	15322.4	16031.2	15093.1
47.5°	14480.2	14555.3	14963.8	15710.2	15901.9	14997.2	14075.8	14663.6	16039.5	16669.1	15626.8
50°	13892.3	14042.4	14788.8	15564.2	16143.8	15443.3	14851.3	15276.6	16702.5	17182.0	15714.3
52.5°	13279.4	13362.8	14530.2	15676.8	16252.2	16018.7	15889.4	16122.9	17511.3	17761.5	15822.7
55°	11611.7	12007.8	13675.5	15626.8	16781.7	17056.9	16956.8	17298.7	18428.6	18678.8	16414.8
56°	10840.3	11048.8	13162.7	15393.3	16885.9	17436.3	17386.3	17540.5	18916.4	19179.1	16506.5
57.5°	9414.4	9431.1	11223.9	14359.3	16494.1	17548.8	17498.8	17619.8	18820.5	18641.3	15701.8
60°	5891.3	6149.8	7638.2	11044.7	14025.7	16281.4	16564.9	15593.4	15868.6	15489.2	12216.2
62.5°	3052.0	3014.5	4002.6	6458.3	9310.2	11657.5	11920.2	11874.4	11449.1	10894.6	7980.2
65°	1521.8	1530.1	2093.0	3197.9	4769.7	6104.0	6837.8	6916.9	5787.1	5324.2	3785.8
67.5°	1104.9	1146.5	1505.2	1955.5	2247.3	2514.1	3081.2	3022.8	2288.9	2176.4	2017.9
70°	858.9	896.4	1221.6	1492.6	1355.1	1355.1	1476.0	1526.0	1630.2	1676.1	1730.3
72.5°	625.4	654.6	934.0	1029.8	888.1	954.8	1104.9	1221.6	1330.0	1346.7	1409.2
75°	429.5	454.5	612.9	567.0	533.7	658.7	808.8	917.3	996.4	1038.2	1075.7
77.5°	279.4	287.7	350.2	296.1	341.9	425.2	525.3	617.1	696.3	729.7	738.0
80°	125.0	137.6	150.1	187.6	237.6	304.4	375.2	450.3	500.3	512.9	537.8
82.5°	70.9	70.9	91.7	133.4	175.1	221.0	271.0	325.2	383.6	396.1	391.9
85°	37.5	37.5	54.2	79.2	108.4	129.3	125.0	129.3	137.6	158.4	154.3
87.5°	12.5	12.5	16.7	16.7	20.8	25.0	20.8	29.2	37.5	37.5	37.5
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°	8563.9	8563.9	8563.9	8563.9	8563.9	8563.9	8563.9	8563.9	8563.9	8563.9	8563.9
2.5°	8551.4	8588.9	8538.8	8647.3	8647.3	8626.4	8522.2	8555.5	8580.6	8580.6	8601.4
5°	8714.0	8701.5	8734.8	8605.6	8526.3	8497.2	8326.2	8242.9	8171.9	8167.8	8105.2
7.5°	8805.7	8772.3	8759.8	8664.0	8313.7	8101.1	7734.2	7521.5	7475.7	7313.1	7375.6
10°	8951.6	9014.1	8951.6	8430.5	7942.7	7454.9	7096.3	6766.8	6637.6	6533.4	6470.9
12.5°	9251.8	9222.6	8859.9	8155.3	7471.5	6892.0	6358.3	6012.2	5883.0	5791.2	5782.9
15°	9506.2	9360.2	8805.7	7721.6	6737.7	6120.6	5682.9	5436.8	5378.5	5386.8	5424.3
17.5°	9593.7	9493.6	8522.2	7271.4	6191.5	5466.0	5261.8	5224.3	5278.4	5340.9	5357.6
20°	9731.3	9572.9	8405.4	6658.5	5516.1	5057.5	5044.9	5178.4	5278.4	5370.1	5382.7
22.5°	10019.0	9618.8	8026.1	6078.9	5053.2	4936.5	5057.5	5170.0	5324.2	5399.3	5332.6
25°	10102.3	9518.7	7492.4	5382.7	4761.4	4861.5	4990.8	5145.0	5253.4	5295.1	5324.2
27.5°	10173.3	9364.4	6771.1	4919.8	4669.7	4857.3	4990.8	5120.0	5178.4	5215.9	5249.2
30°	10373.4	9318.6	6145.6	4611.3	4611.3	4774.0	4944.9	4978.2	5057.5	5103.3	5161.7
32.5°	10473.5	9001.7	5503.6	4415.3	4552.9	4815.6	4828.1	4890.7	4894.8	4932.4	4869.8
35°	10736.1	8776.5	4907.4	4273.6	4578.0	4774.0	4836.4	4798.9	4594.6	4494.6	4515.4
37.5°	10927.9	8664.0	4477.9	4256.9	4582.1	4819.8	4853.1	4569.6	4357.0	4190.2	4231.9
40°	11444.9	8384.6	4152.7	4227.7	4619.6	4869.8	4778.1	4469.6	4086.0	3915.0	3885.9
42.5°	11841.0	8184.5	3948.4	4194.4	4648.8	4940.7	4740.6	4269.5	3877.5	3719.1	3760.7
45°	12299.6	8138.6	3840.0	4202.8	4698.9	4978.2	4694.7	4115.1	3698.3	3635.7	3623.2
47.5°	12462.2	7809.3	3723.2	4131.8	4686.3	4965.7	4540.5	3998.4	3631.6	3639.9	3673.2
50°	12191.2	7471.5	3635.7	3985.9	4602.9	4853.1	4298.6	3844.1	3594.0	3698.3	3756.6
52.5°	11845.1	7125.5	3456.4	3790.0	4432.0	4678.0	4186.1	3835.8	3556.5	3523.1	3535.6
55°	11949.4	6841.9	3206.2	3523.1	4156.9	4352.9	4061.0	3756.6	3464.8	3339.7	3381.4
56°	11611.7	6550.1	3043.6	3356.3	3969.3	4144.3	3998.4	3685.7	3389.7	3306.3	3306.3
57.5°	10656.9	5570.3	2831.0	3089.5	3573.1	3781.6	3877.5	3644.0	3306.3	3160.3	3164.6
60°	7859.3	3960.9	2539.1	2722.6	2960.3	3127.0	3573.1	3527.3	3097.9	2997.8	2960.3
62.5°	4844.8	2893.6	2330.7	2401.5	2522.4	2660.1	3118.7	3193.7	2876.9	2768.5	2743.5
65°	2714.3	2213.9	2172.3	2201.4	2259.8	2330.7	2589.1	2755.9	2539.1	2372.3	2364.0
67.5°	1984.6	1980.4	2013.8	2038.9	2063.8	2063.8	2126.4	2193.1	2163.9	2030.5	2017.9
70°	1763.6	1776.2	1801.1	1805.4	1813.7	1784.5	1734.4	1713.6	1747.0	1663.6	1646.9
72.5°	1455.1	1496.8	1526.0	1530.1	1484.3	1446.7	1380.0	1309.2	1284.2	1267.5	1263.3
75°	1117.4	1146.5	1159.1	1154.9	1138.2	1084.1	1004.8	934.0	888.1	838.0	863.0
77.5°	754.7	796.3	817.2	817.2	792.2	708.8	671.3	617.1	571.2	517.0	525.3
80°	529.5	558.7	592.0	587.9	546.2	504.5	450.3	400.3	362.8	321.0	316.9
82.5°	396.1	412.8	429.5	421.1	391.9	350.2	312.7	266.8	225.1	196.0	196.0
85°	141.7	154.3	187.6	196.0	212.7	212.7	179.3	150.1	120.9	100.1	100.1
87.5°	41.7	41.7	45.9	45.9	41.7	45.9	37.5	41.7	45.9	29.2	29.2
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)