

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: P647187

Luminaire Tested: **GALN-SA9C-835-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647187
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-835-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42547.5 lumens
Efficiency: N/A
Efficacy: 88.5 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

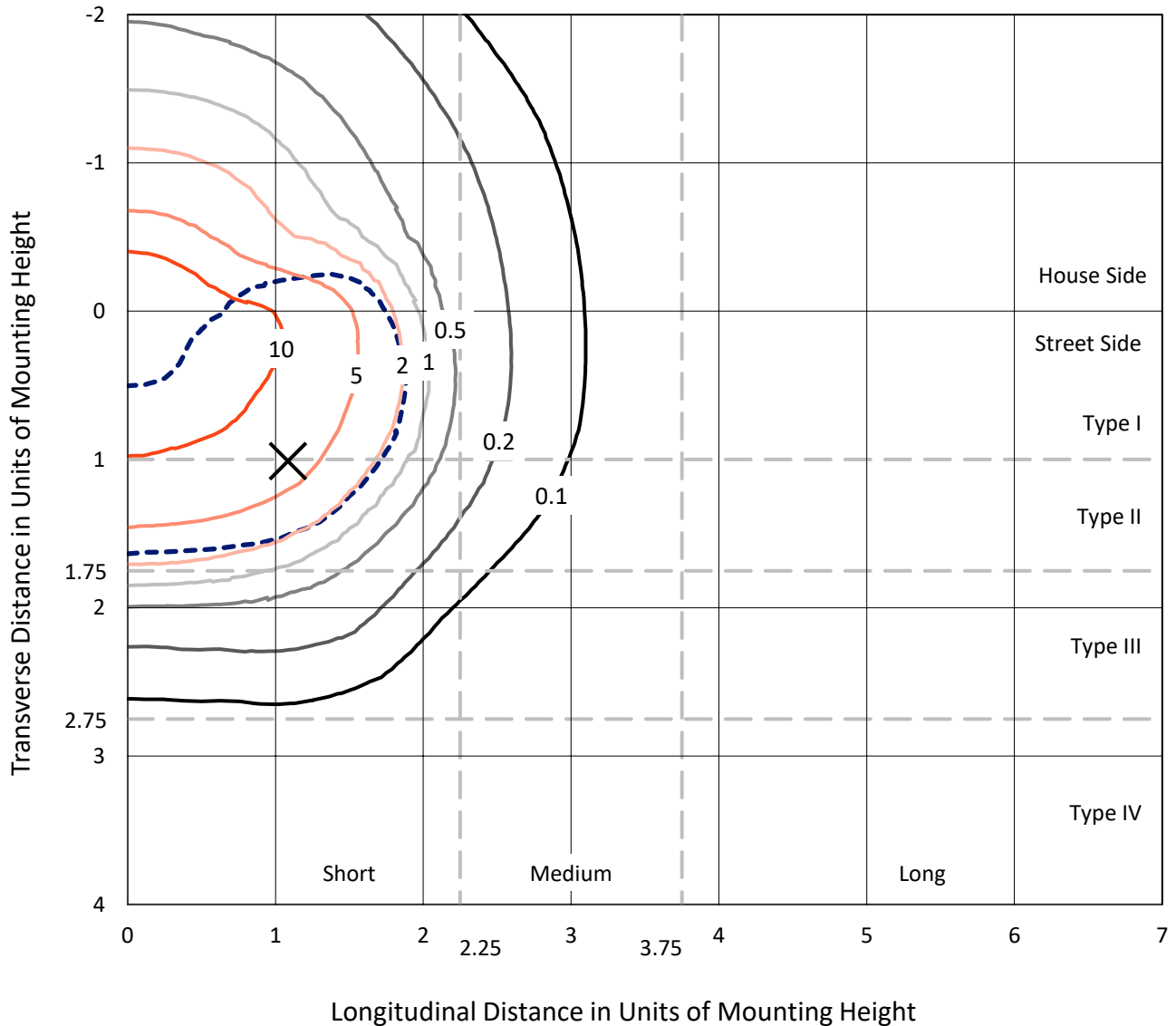
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

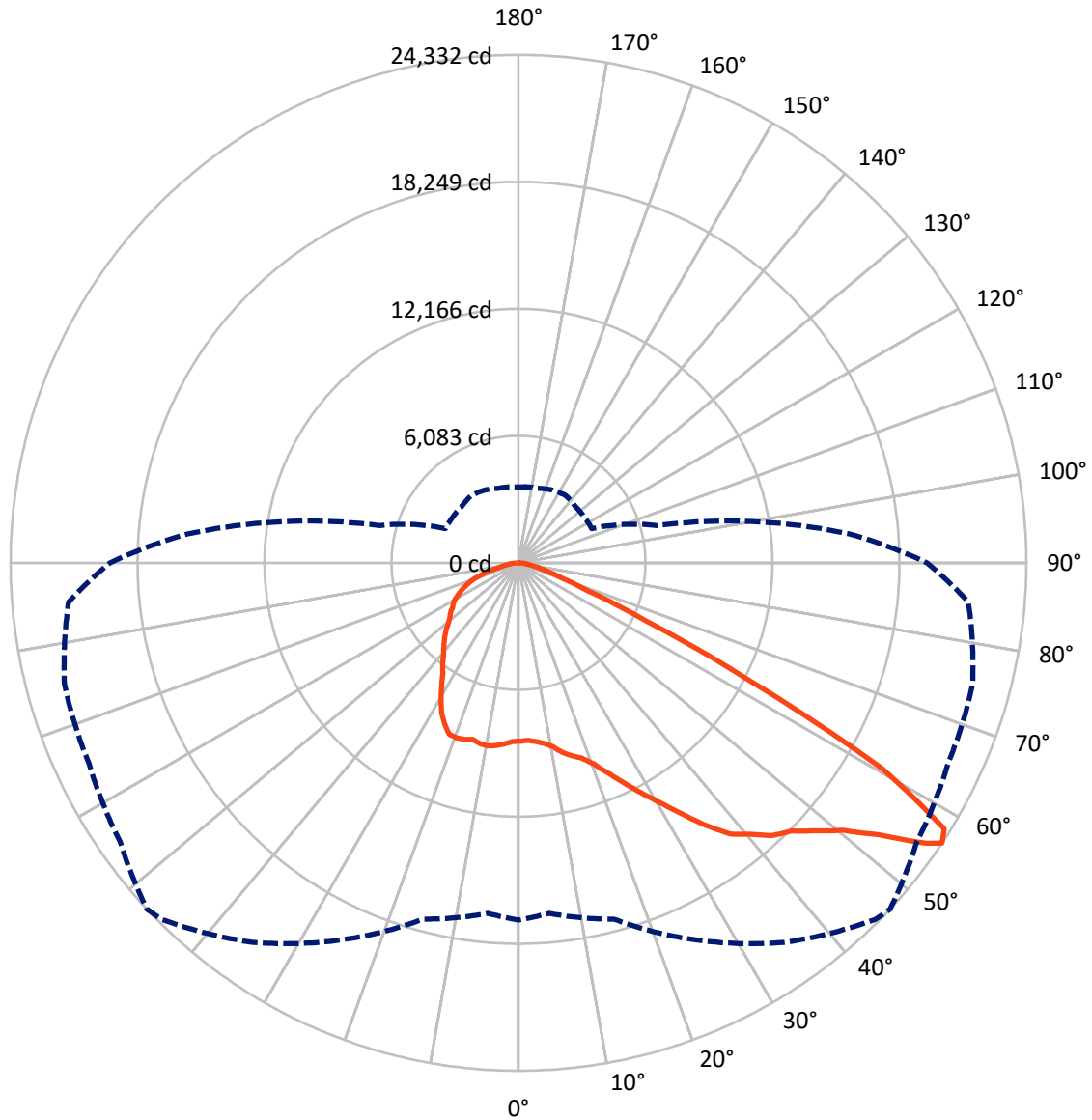
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical



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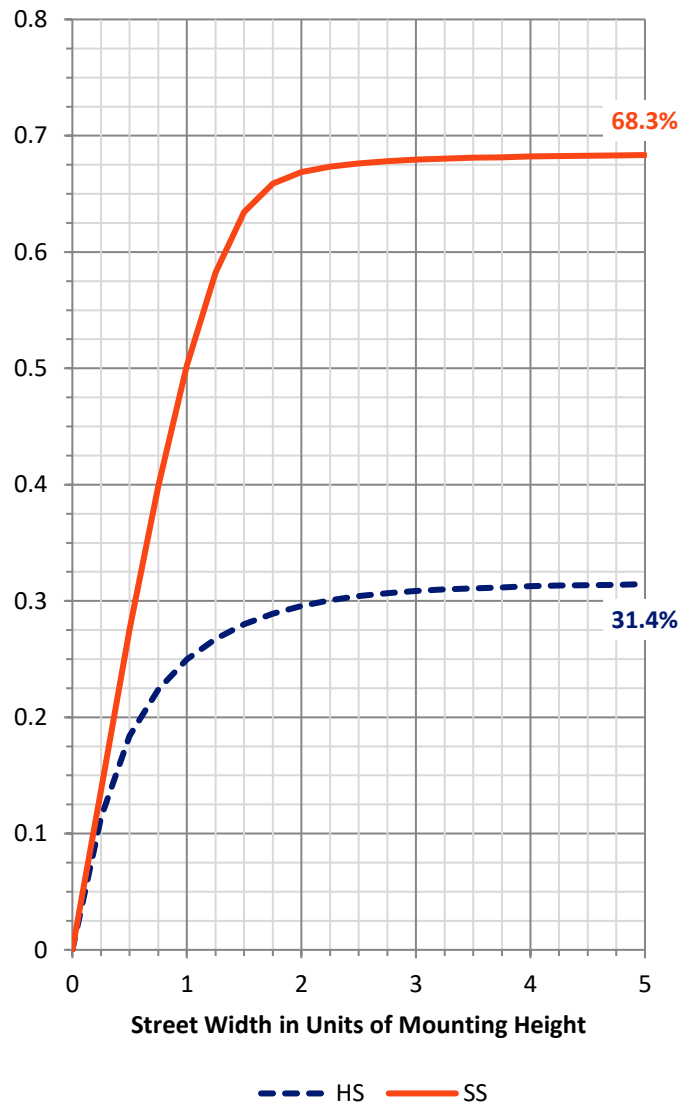
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13482.8	0.0	13482.8
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	29064.7	0.0	29064.7
	% Fixture	68.3	0.0	68.3
Total	Lumens	42547.5	0.0	42547.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	832.8	2.0
10°-20°	2626.9	6.2
20°-30°	4643.7	10.9
30°-40°	6974.7	16.4
40°-50°	9572.0	22.5
50°-60°	11403.8	26.8
60°-70°	4880.2	11.5
70°-80°	1381.1	3.2
80°-90°	232.4	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°	42547.5	100.0
0°-180°	42547.5	100.0

Coefficient of Utilization

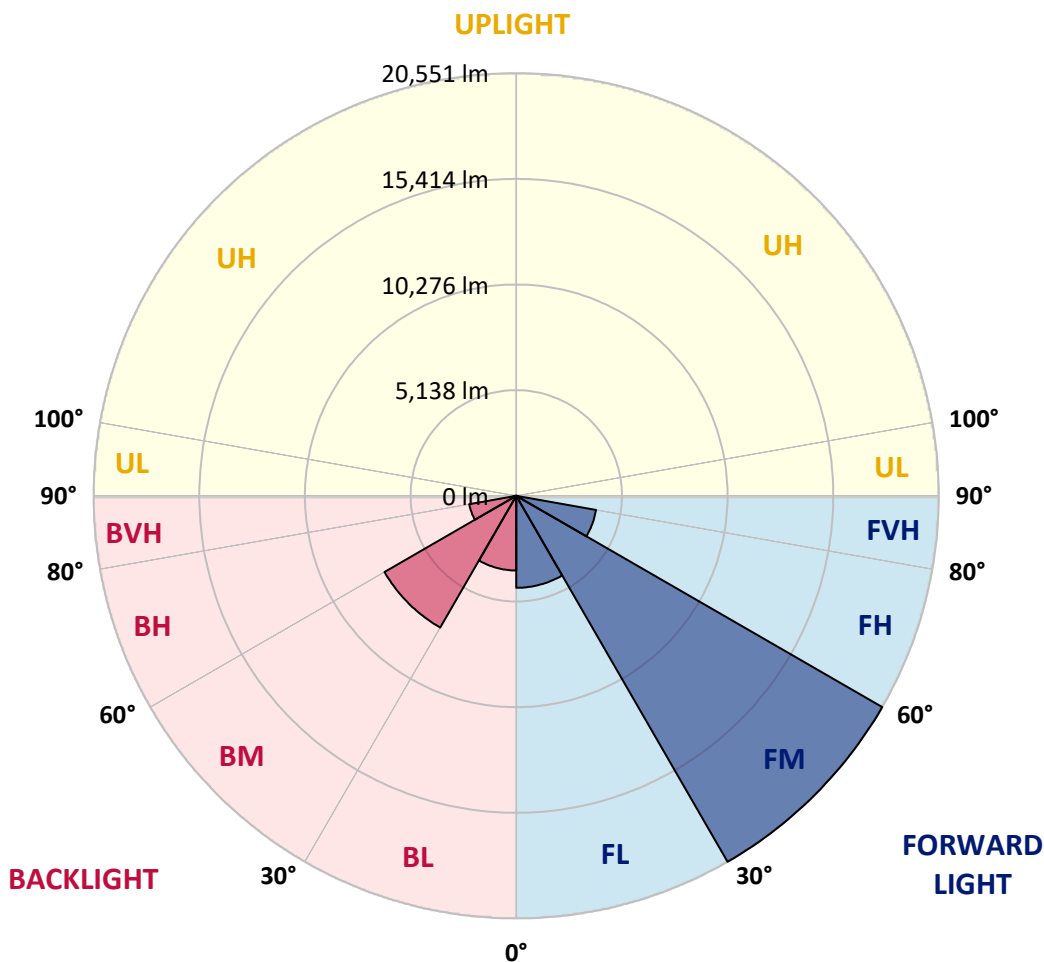


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4473.2	10.5			
FM (30°-60°)	20551.4	48.3			
FH (60°-80°)	3941.5	9.3			G2/5000
FVH (80°-90°)	98.6	0.2			G1/100
BL (0°-30°)	3630.1	8.5	B4/5000		
BM (30°-60°)	7399.1	17.4	B4/8500		
BH (60°-80°)	2319.8	5.5	B3/2500		G3/2500
BVH (80°-90°)	133.8	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°	47°	55°	65°	75°	85°
0°	8546.5	8546.5	8546.5	8546.5	8546.5	8546.5	8546.5	8546.5	8546.5	8546.5	8546.5
2.5°	8514.0	8497.7	8486.8	8573.6	8541.0	8546.5	8514.0	8546.5	8568.2	8519.4	8589.9
5°	8497.7	8546.5	8503.1	8530.2	8600.8	8579.0	8600.8	8665.9	8649.6	8633.3	8611.6
7.5°	8649.6	8655.0	8687.5	8698.4	8720.1	8698.4	8731.0	8790.7	8774.4	8682.1	8693.0
10°	8866.6	8877.5	8882.9	8942.6	8980.6	8986.0	8948.0	8893.8	8888.4	9013.2	8926.4
12.5°	9116.2	9089.1	9154.2	9176.0	9219.4	9268.2	9317.0	9203.1	9273.6	9279.0	9176.0
15°	9479.8	9507.0	9431.0	9431.0	9447.3	9452.7	9588.4	9534.0	9523.2	9463.6	9507.0
17.5°	10022.5	9837.9	9832.5	9756.6	9745.7	9789.1	9837.9	9881.4	10027.9	9908.5	9675.1
20°	10418.6	10462.0	10304.6	10212.4	10228.6	10326.4	10277.5	10472.9	10575.9	10380.6	10152.7
22.5°	11118.6	10972.1	11010.1	10803.8	10820.1	10923.2	10917.8	11118.6	11178.3	10869.0	10537.9
25°	11590.7	11552.7	11585.3	11422.5	11444.2	11525.5	11655.8	11986.8	11889.2	11547.3	10782.1
27.5°	12279.8	12203.8	12176.7	12117.0	12095.3	12312.4	12464.3	12817.0	12746.5	12247.2	11216.2
30°	12985.3	12936.4	12963.5	12719.4	12806.2	13267.4	13310.8	13793.8	13761.2	12882.2	11699.2
32.5°	13473.6	13500.7	13549.6	13413.9	13799.2	14168.2	14314.6	14862.7	14889.8	13972.8	12632.5
35°	14260.4	14168.2	14195.3	14352.7	14531.8	15204.6	15443.3	15807.0	16034.8	15117.8	13527.9
37.5°	14754.2	14851.9	14737.9	14987.6	15454.2	16262.8	16479.8	16854.2	17093.0	16246.5	14748.8
40°	15524.8	15367.4	15448.8	15627.9	16105.4	17158.1	17098.4	17483.7	17559.6	17206.9	15888.3
42.5°	16355.0	16279.0	16165.0	16572.0	16973.6	17738.7	17858.1	17679.0	18064.3	18145.7	17516.3
45°	17348.0	17440.2	17456.5	17467.4	17820.1	18487.6	18324.8	18167.4	18612.4	19203.9	18525.5
47.5°	18270.5	17977.4	18189.1	18482.1	18981.3	18986.7	19176.7	18802.3	19274.3	19800.7	19437.2
50°	18579.8	18438.7	18720.9	19274.3	20044.9	20126.3	20148.0	19616.2	19860.4	20278.2	19751.9
52.5°	18460.4	18411.5	19133.3	19990.6	21119.3	21531.7	21640.2	20983.7	21119.3	20929.4	20446.5
55°	17890.6	18037.2	18764.3	20511.5	22242.6	23517.8	23724.0	22893.7	22031.0	22177.5	21645.6
56°	17109.3	16854.2	17668.2	19920.1	22193.7	24163.5	24331.7	23295.3	22709.3	22519.3	21634.8
57.5°	14515.5	14184.4	15253.5	17923.2	20961.9	23919.3	24044.1	23463.5	22595.3	22210.0	20055.8
60°	8497.7	8660.4	10017.0	12361.2	16170.5	19610.8	20028.6	20451.9	19871.3	18145.7	14927.9
62.5°	4102.3	3999.3	4970.6	7086.8	9854.2	12518.6	12393.8	13582.2	14233.3	12893.0	9425.5
65°	2148.9	2138.0	2713.2	3869.0	5415.5	6576.7	6690.7	7331.0	8226.4	6641.9	4786.0
67.5°	1579.1	1622.5	1910.1	2718.6	3483.7	3554.3	3538.0	3858.2	3945.0	3337.2	2941.1
70°	1237.2	1258.9	1470.6	2067.4	2593.8	2322.5	2273.7	2311.7	2566.7	2675.2	2545.0
72.5°	895.4	917.0	1096.1	1394.6	1622.5	1584.5	1617.1	1828.7	2143.4	2257.4	2121.7
75°	596.9	613.2	710.9	851.9	960.4	1036.5	1096.1	1340.3	1633.3	1698.5	1633.3
77.5°	412.4	428.7	493.8	602.4	613.2	662.0	683.7	797.6	976.7	1058.1	1014.7
80°	233.3	233.3	265.9	309.3	379.8	445.0	455.8	548.0	629.5	683.7	694.6
82.5°	108.5	113.9	141.1	190.0	249.6	309.3	320.2	379.8	439.5	493.8	510.0
85°	54.3	59.7	81.4	113.9	151.9	184.5	179.1	184.5	195.4	184.5	190.0
87.5°	16.3	16.3	21.7	27.2	21.7	27.2	27.2	32.6	38.0	43.4	48.9
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°	8546.5	8546.5	8546.5	8546.5	8546.5	8546.5	8546.5	8546.5	8546.5	8546.5	8546.5
2.5°	8595.3	8611.6	8503.1	8606.2	8568.2	8562.7	8638.8	8627.9	8655.0	8644.2	8579.0
5°	8600.8	8562.7	8676.7	8573.6	8622.5	8725.6	8655.0	8817.8	8736.4	8790.7	8671.3
7.5°	8769.0	8779.9	8758.1	8801.5	8779.9	8828.6	8790.7	8828.6	8763.6	8769.0	8877.5
10°	8915.5	8882.9	8920.9	8866.6	8904.6	8888.4	8801.5	8774.4	8796.1	8769.0	8839.5
12.5°	9186.8	9127.1	9099.9	9034.9	8991.4	8828.6	8693.0	8617.0	8720.1	8736.4	8703.8
15°	9463.6	9469.0	9344.2	9197.7	8926.4	8682.1	8714.7	8741.8	8741.8	8785.3	8703.8
17.5°	9637.2	9637.2	9523.2	9230.2	8953.4	8812.4	8779.9	8693.0	8617.0	8606.2	8600.8
20°	9941.0	9848.8	9588.4	9224.8	8942.6	8877.5	8633.3	8427.1	8269.7	8215.5	8210.1
22.5°	10288.3	10055.0	9691.4	9235.6	8926.4	8834.1	8378.3	8069.0	7786.8	7667.4	7683.7
25°	10608.5	10234.0	9751.2	9186.8	8866.6	8421.7	7911.6	7482.9	7189.9	7092.3	7043.4
27.5°	10831.0	10424.0	9751.2	9230.2	8644.2	7960.4	7439.5	6891.4	6636.4	6571.3	6582.1
30°	11129.4	10662.7	9919.4	9137.9	8199.2	7363.6	6739.5	6381.4	6229.5	6175.2	6213.2
32.5°	11829.4	11286.8	10152.7	8915.5	7672.9	6766.7	6262.0	6061.2	5838.8	5730.2	5692.3
35°	12589.1	11878.3	10380.6	8541.0	7081.4	6224.0	5909.3	5724.8	5458.9	5339.5	5361.2
37.5°	13663.5	12637.9	10396.9	7922.5	6441.0	5920.1	5632.5	5344.9	5127.9	4943.4	4889.1
40°	15112.4	13674.4	10358.9	7271.3	5925.6	5562.0	5350.4	4992.3	4748.0	4617.8	4644.9
42.5°	16387.6	14889.8	10201.6	6533.4	5458.9	5317.8	5079.1	4726.3	4487.6	4351.9	4341.1
45°	17462.0	15785.2	9903.1	5903.9	5068.2	5046.5	4769.7	4498.4	4308.5	4183.7	4238.0
47.5°	18455.0	16506.9	9452.7	5274.4	4710.1	4753.4	4487.6	4319.3	4200.0	4086.0	4080.6
50°	18813.1	16496.1	9056.6	4753.4	4422.5	4400.8	4389.9	4210.8	4086.0	3988.4	4031.7
52.5°	19410.0	16680.6	8627.9	4395.4	4162.0	4167.4	4205.4	4075.2	3934.1	3874.4	3928.7
55°	20267.4	16707.7	7683.7	3977.5	3945.0	3983.0	3983.0	3896.1	3776.7	3727.9	3700.8
56°	19567.4	15899.2	6891.4	3869.0	3836.4	3836.4	3939.5	3841.9	3695.4	3657.4	3624.8
57.5°	18048.0	13929.4	5768.2	3738.7	3689.9	3765.9	3820.2	3717.1	3581.4	3527.1	3559.7
60°	12448.1	9425.5	4335.6	3456.6	3456.6	3581.4	3624.8	3472.8	3413.2	3407.8	3364.3
62.5°	7265.8	5491.5	3391.5	3201.5	3212.4	3315.5	3348.0	3261.2	3185.2	3277.5	3320.9
65°	3852.7	3277.5	2908.5	2930.2	2935.6	3017.1	3158.2	3152.7	3147.3	3174.4	3179.8
67.5°	2789.1	2724.1	2642.6	2620.9	2631.7	2691.5	2832.6	2941.1	2935.6	2870.6	2821.7
70°	2485.2	2393.0	2344.1	2349.6	2306.2	2376.7	2490.7	2561.3	2436.5	2360.4	2327.9
72.5°	2067.4	2040.3	2007.8	2013.2	1926.3	1910.1	1779.8	1779.8	1747.3	1725.6	1763.6
75°	1579.1	1568.2	1584.5	1557.4	1465.1	1367.4	1291.5	1220.9	1112.4	1069.0	1047.3
77.5°	998.5	1031.0	1069.0	1009.3	971.3	900.8	824.8	754.3	667.4	618.6	618.6
80°	678.3	705.4	732.6	721.7	678.3	613.2	553.5	477.6	417.8	379.8	374.4
82.5°	515.5	537.2	575.2	531.8	488.4	434.1	385.2	331.0	276.7	233.3	233.3
85°	184.5	211.6	233.3	255.0	271.3	276.7	238.7	195.4	157.4	124.8	119.4
87.5°	48.9	54.3	59.7	54.3	54.3	54.3	59.7	54.3	48.9	38.0	38.0
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)