

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: P533832

Luminaire Tested: **GALN-SA9B-735-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533832
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9B-735-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42227 lumens
Efficiency: N/A
Efficacy: 116.0 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

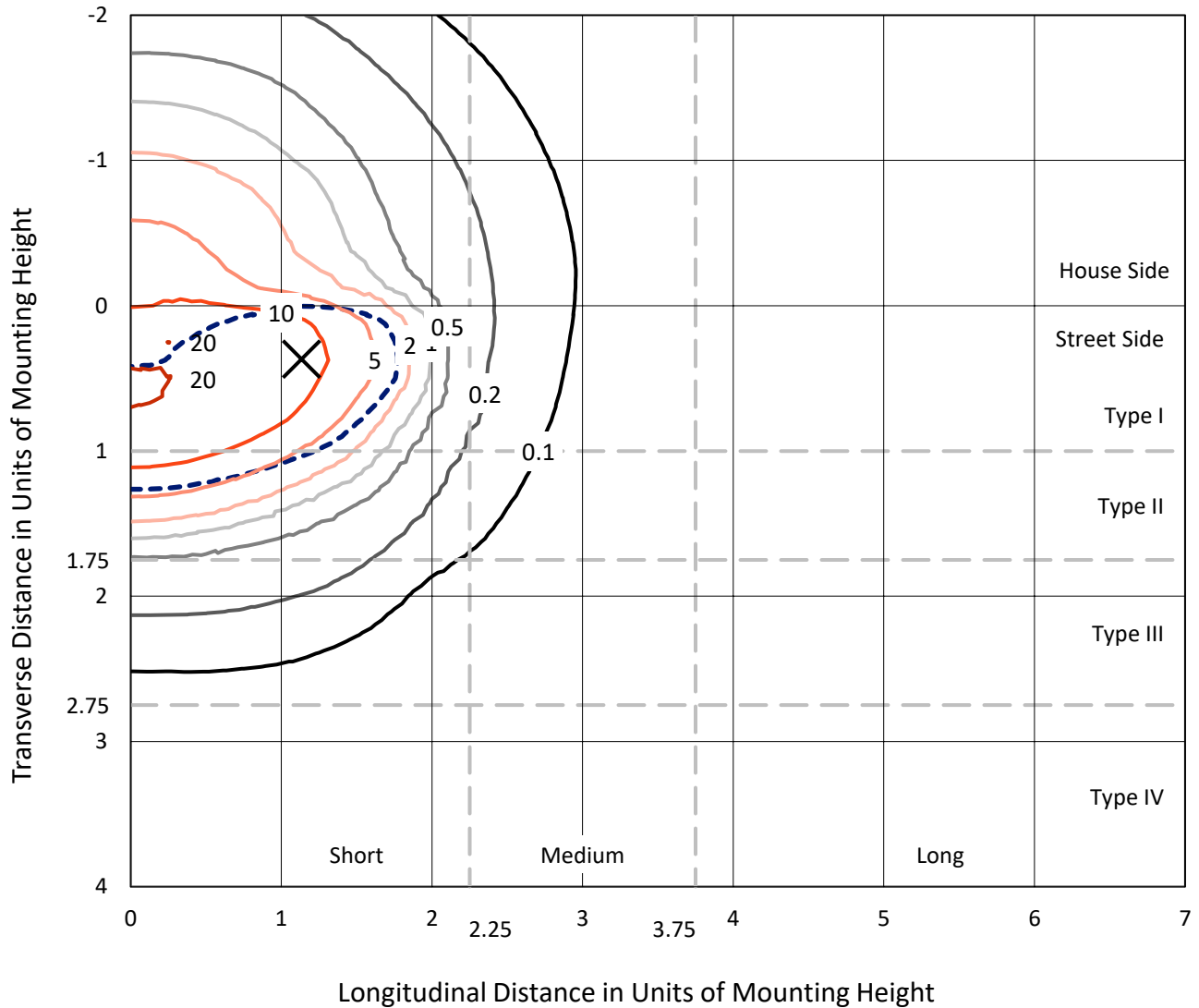
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

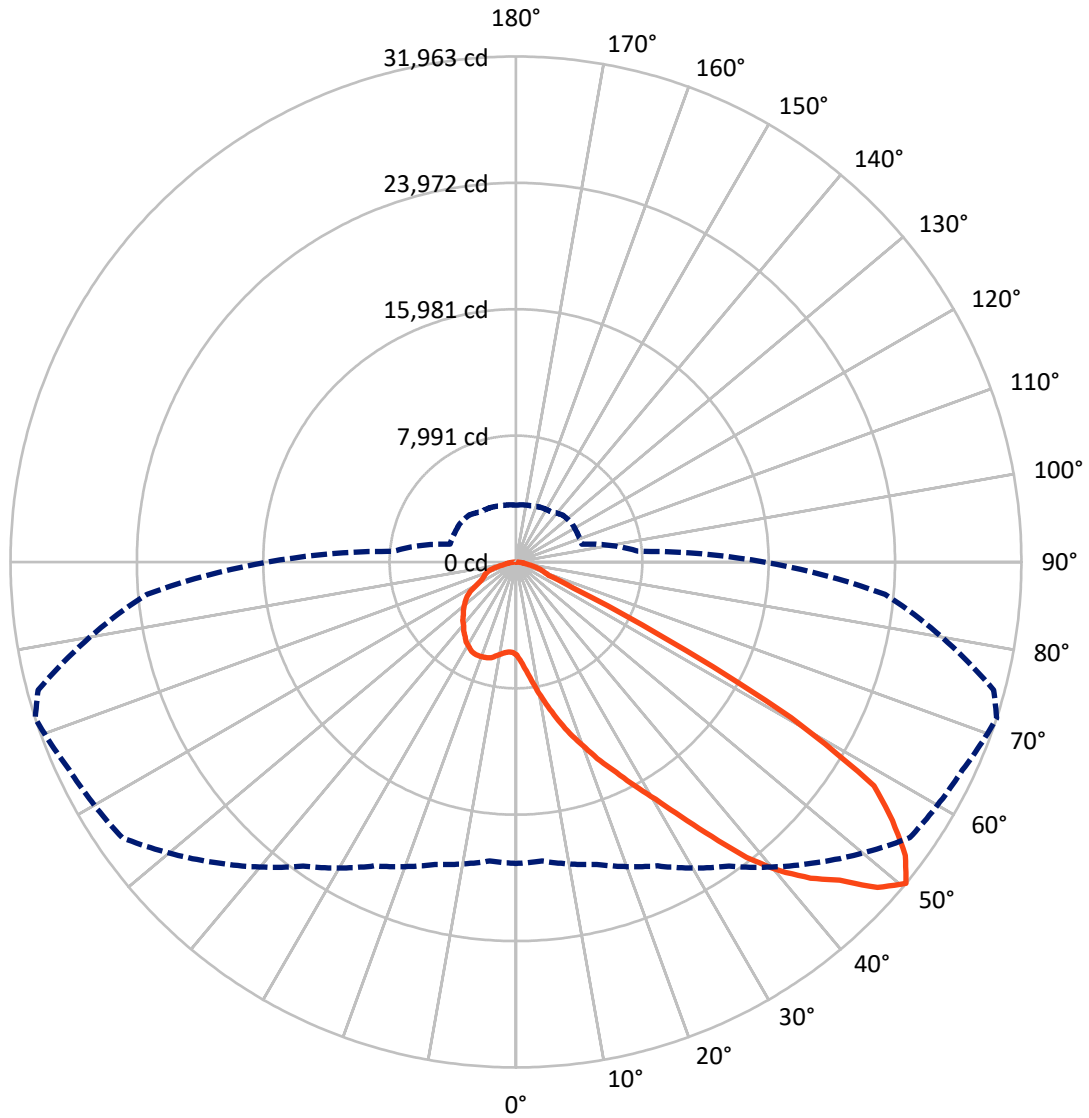
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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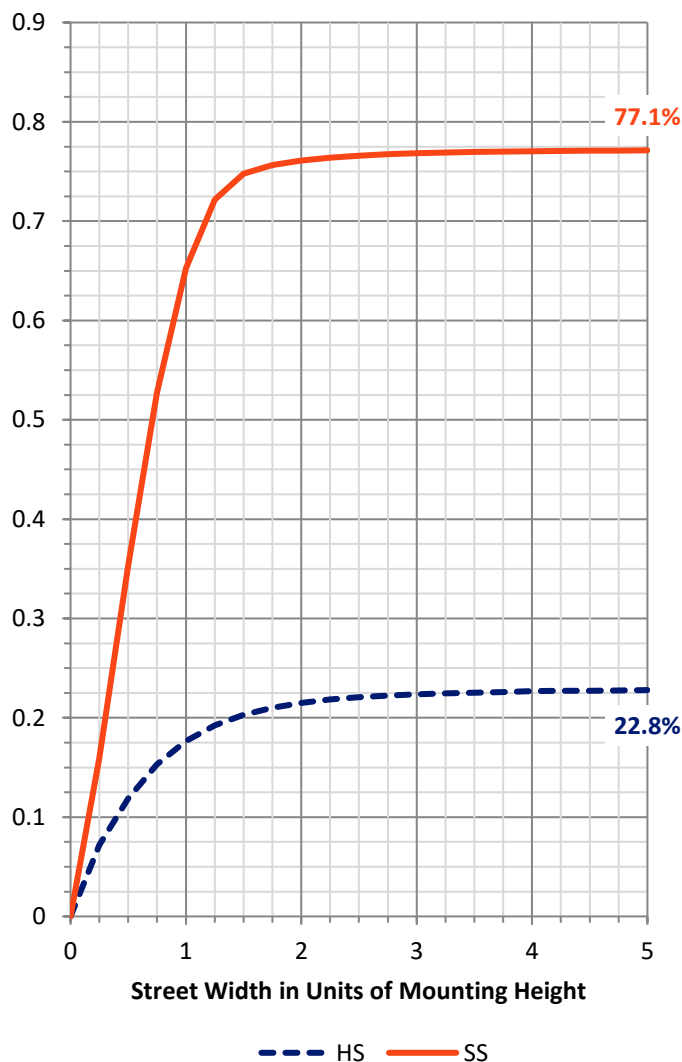
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9674.5	0.0	9674.5
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	32552.5	0.0	32552.5
	% Fixture	77.1	0.0	77.1
Total	Lumens	42227.0	0.0	42227.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	691.4	1.6
10°-20°	2584.9	6.1
20°-30°	5011.8	11.9
30°-40°	8302.9	19.7
40°-50°	11617.5	27.5
50°-60°	9800.9	23.2
60°-70°	2987.3	7.1
70°-80°	1048.0	2.5
80°-90°	182.2	0.4
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°	42227.0	100.0
0°-180°	42227.0	100.0



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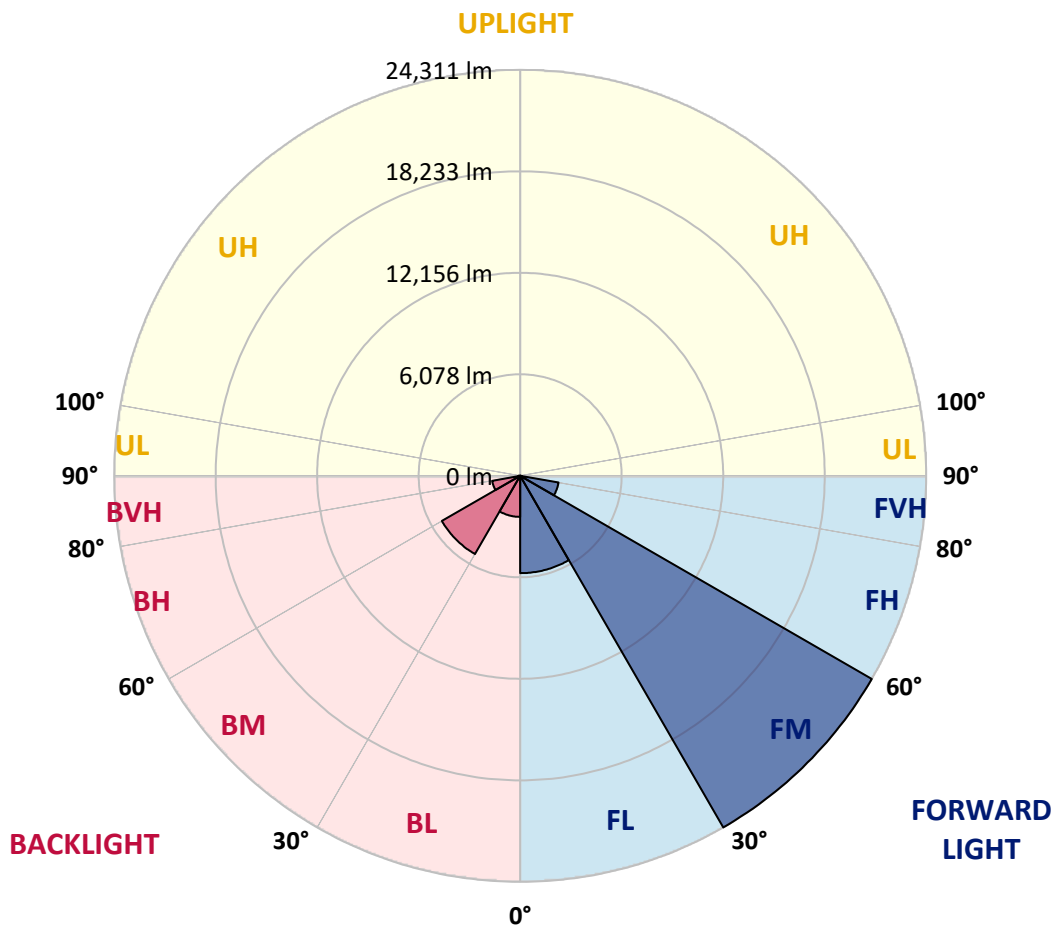
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5828.8	13.8			
FM (30°-60°)	24311.2	57.6			
FH (60°-80°)	2330.9	5.5			G2/5000
FVH (80°-90°)	81.6	0.2			G1/100
BL (0°-30°)	2459.3	5.8	B3/2500		
BM (30°-60°)	5410.1	12.8	B4/8500		
BH (60°-80°)	1704.5	4.0	B3/2500		G3/2500
BVH (80°-90°)	100.6	0.2			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°	72°	75°	85°
0°	5878.4	5878.4	5878.4	5878.4	5878.4	5878.4	5878.4	5878.4	5878.4	5878.4	5878.4
2.5°	7560.9	7513.8	7372.8	7325.7	7158.5	6855.5	6751.0	6442.7	6312.1	6191.9	6050.8
5°	9562.1	9342.7	9327.0	9060.5	8673.8	8449.2	7780.3	7331.0	6918.2	6709.2	6322.5
7.5°	10837.1	10842.3	10842.3	10622.8	10314.6	9745.0	9144.1	8334.2	7712.4	7404.1	6745.7
10°	12049.3	11944.8	11887.3	11866.4	11657.4	11103.6	10460.9	9457.6	8605.9	8245.4	7064.5
12.5°	12906.3	12817.4	12948.1	12880.1	12728.6	12368.1	11761.9	10617.6	9551.7	9065.7	7576.6
15°	13313.8	13376.5	13481.0	13669.1	13601.2	13465.4	12796.5	11809.0	10570.6	10021.9	8031.1
17.5°	13940.9	13768.4	13893.8	14129.0	14317.1	14254.4	13872.9	12671.1	11579.1	10905.0	8642.5
20°	14379.8	14280.5	14343.2	14614.9	14756.0	15111.3	14912.7	13799.8	12545.7	11835.1	9363.6
22.5°	15633.8	15487.5	15283.7	15325.5	15377.8	15628.6	15675.6	15038.1	13669.1	12916.7	10048.1
25°	17180.5	17044.6	16804.3	16558.7	16407.2	16360.1	16522.1	16010.0	14745.5	13967.0	10784.8
27.5°	18883.9	18654.0	18502.5	17995.6	17588.0	17525.3	17447.0	17170.0	16020.5	15179.2	11615.6
30°	20540.3	20357.4	20153.6	19343.7	18920.5	18852.5	18465.9	18544.3	17405.2	16469.9	12556.2
32.5°	21794.3	21810.0	21345.0	20733.6	20336.5	19976.0	19834.9	20059.6	19181.7	18429.3	13606.4
35°	22808.0	22855.1	22410.9	21857.0	21428.6	21679.4	21616.7	21721.2	21303.2	20383.5	14829.1
37.5°	23795.6	23560.5	23085.0	22818.5	22593.8	23006.6	23539.6	23628.4	23706.8	22625.1	16250.4
40°	23957.6	23978.5	23701.5	23889.6	23607.5	24229.3	25467.7	25352.7	25671.4	24725.7	17791.8
42.5°	23727.7	23774.7	23884.4	24150.9	24830.2	25577.4	27416.7	26946.4	27333.1	26491.8	19291.5
45°	23351.5	23158.1	23294.0	24307.7	25483.3	27145.0	29198.5	28832.7	28707.3	28001.9	21078.5
47.5°	21554.0	21752.5	22175.8	23424.6	25190.7	27416.7	30463.0	30379.4	30755.6	30259.2	22703.5
50°	19061.6	18983.2	19798.3	21203.9	23482.1	26883.7	30395.0	31152.7	31962.6	31272.9	23429.8
52.5°	14275.3	14693.3	15393.5	17138.7	20388.8	23978.5	28911.1	30175.6	30833.9	30687.6	22844.6
55°	9023.9	9149.3	9572.6	11647.0	14573.1	19244.4	24783.2	27714.5	28890.2	29438.8	22306.4
57.5°	4383.9	4148.8	4666.1	6333.0	8417.8	12942.8	19113.8	24140.5	26695.6	27688.4	21136.0
60°	2288.6	2377.5	2581.3	3176.9	4352.6	6719.6	11913.5	16088.4	19991.6	21517.4	16020.5
62.5°	1896.8	1928.1	2064.0	2361.8	2894.8	3866.7	6082.1	7843.0	10194.4	11568.6	9112.8
65°	1609.4	1625.0	1771.3	1969.9	2309.5	2722.3	3129.9	3276.2	3965.9	4070.4	3239.6
67.5°	1342.9	1358.6	1515.3	1703.4	1922.9	2032.6	2137.1	2126.7	2205.0	2173.7	2168.5
70°	1034.6	1050.3	1212.2	1410.8	1520.5	1457.8	1781.8	1854.9	1886.3	1912.4	1954.2
72.5°	747.2	778.6	904.0	1045.0	987.6	1133.9	1468.3	1578.0	1619.8	1635.5	1687.7
75°	543.4	553.9	585.2	543.4	627.0	789.0	1034.6	1170.4	1222.7	1238.4	1316.8
77.5°	240.4	245.6	250.8	313.5	402.3	491.2	616.6	726.3	799.5	820.4	841.3
80°	125.4	130.6	162.0	214.2	287.4	360.5	449.4	512.1	559.1	564.3	585.2
82.5°	78.4	83.6	115.0	151.5	203.8	266.5	329.2	381.4	418.0	423.2	428.5
85°	36.6	47.0	67.9	94.1	135.9	172.4	177.7	151.5	162.0	167.2	156.8
87.5°	10.5	15.7	20.9	15.7	20.9	20.9	26.1	31.4	31.4	31.4	36.6
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°	5878.4	5878.4	5878.4	5878.4	5878.4	5878.4	5878.4	5878.4	5878.4	5878.4	5878.4
2.5°	5972.4	5925.4	5742.5	5674.6	5496.9	5528.3	5434.2	5429.0	5408.1	5402.9	5397.6
5°	6118.7	5972.4	5753.0	5585.7	5486.5	5476.0	5408.1	5408.1	5429.0	5444.7	5408.1
7.5°	6359.1	6191.9	5820.9	5664.1	5575.3	5559.6	5512.6	5476.0	5523.0	5507.4	5465.6
10°	6636.0	6343.4	5951.5	5815.7	5669.4	5632.8	5632.8	5648.4	5570.1	5596.2	5554.4
12.5°	6944.3	6552.4	6118.7	5962.0	5789.5	5768.6	5758.2	5643.2	5685.0	5664.1	5559.6
15°	7336.2	6792.8	6333.0	6066.5	5920.2	5826.1	5690.3	5669.4	5643.2	5591.0	5543.9
17.5°	7759.4	7054.0	6432.2	6097.8	5878.4	5810.4	5705.9	5596.2	5517.8	5528.3	5491.7
20°	8120.0	7294.4	6468.8	6129.2	5847.0	5716.4	5554.4	5486.5	5402.9	5397.6	5392.4
22.5°	8548.4	7618.4	6521.1	6045.6	5753.0	5617.1	5507.4	5387.2	5329.7	5256.6	5293.1
25°	9060.5	7743.8	6531.5	5998.5	5685.0	5444.7	5387.2	5256.6	5235.7	5131.2	5152.1
27.5°	9431.5	7811.7	6447.9	5852.2	5528.3	5345.4	5240.9	5146.8	5110.3	5031.9	5011.0
30°	9927.9	7916.2	6270.2	5669.4	5371.5	5167.7	5105.0	5084.1	4979.6	4896.0	4885.6
32.5°	10492.2	7984.1	6155.3	5481.2	5209.5	5052.8	5084.1	4984.8	4854.2	4781.1	4760.2
35°	10941.6	8010.2	5867.9	5267.0	5099.8	5000.5	4963.9	4943.0	4754.9	4687.0	4634.8
37.5°	11626.1	7952.8	5627.5	5115.5	4979.6	4943.0	4911.7	4770.6	4556.4	4457.1	4383.9
40°	12425.5	7937.1	5319.3	4901.2	4864.7	4906.5	4812.4	4593.0	4295.1	4185.4	4133.1
42.5°	13193.6	8046.8	5125.9	4786.3	4739.3	4754.9	4624.3	4295.1	4148.8	4086.1	4002.5
45°	14479.1	8276.7	4807.2	4608.6	4587.7	4577.3	4420.5	4075.7	3992.1	3913.7	3898.0
47.5°	15639.0	8125.2	4603.4	4425.8	4446.7	4389.2	4054.8	3945.0	3851.0	3772.6	3746.5
50°	15707.0	7764.7	4316.0	4284.7	4289.9	4190.6	3871.9	3798.7	3678.5	3626.3	3589.7
52.5°	15351.7	7174.2	4049.5	4060.0	4075.7	3913.7	3647.2	3594.9	3495.7	3422.5	3401.6
55°	14353.6	6254.6	3788.3	3830.1	3871.9	3563.6	3480.0	3349.4	3271.0	3166.5	3171.7
57.5°	12645.0	5037.1	3422.5	3490.4	3579.3	3239.6	3176.9	3014.9	2900.0	2816.4	2805.9
60°	8475.3	3584.5	2873.9	2900.0	3098.5	2962.7	2957.5	2795.5	2638.7	2565.6	2523.8
62.5°	5000.5	2738.0	2482.0	2455.8	2450.6	2529.0	2659.6	2602.2	2398.4	2257.3	2299.1
65°	2617.8	2367.0	2309.5	2220.7	2168.5	2147.6	2246.8	2273.0	2137.1	1985.6	1975.1
67.5°	2199.8	2199.8	2152.8	2121.4	2048.3	1959.5	1896.8	1813.1	1792.2	1750.4	1698.2
70°	2001.3	2053.5	2037.8	1964.7	1902.0	1802.7	1640.7	1504.9	1374.2	1327.2	1358.6
72.5°	1745.2	1797.5	1797.5	1760.9	1677.3	1525.8	1369.0	1212.2	1102.5	1018.9	1008.5
75°	1342.9	1369.0	1431.7	1389.9	1280.2	1186.1	1024.1	862.2	757.7	679.3	663.6
77.5°	856.9	898.7	898.7	893.5	815.1	726.3	621.8	506.8	428.5	371.0	355.3
80°	569.5	595.7	616.6	595.7	543.4	475.5	397.1	318.7	261.3	214.2	203.8
82.5°	418.0	449.4	465.0	444.1	391.9	339.6	282.2	224.7	167.2	130.6	120.2
85°	162.0	167.2	188.1	224.7	219.5	214.2	172.4	125.4	94.1	67.9	62.7
87.5°	41.8	36.6	41.8	41.8	36.6	31.4	31.4	31.4	31.4	15.7	20.9
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)