

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: P648649

Luminaire Tested: **GALN-SA9B-835-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648649
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
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-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34170.9 lumens
Efficiency: N/A
Efficacy: 93.9 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

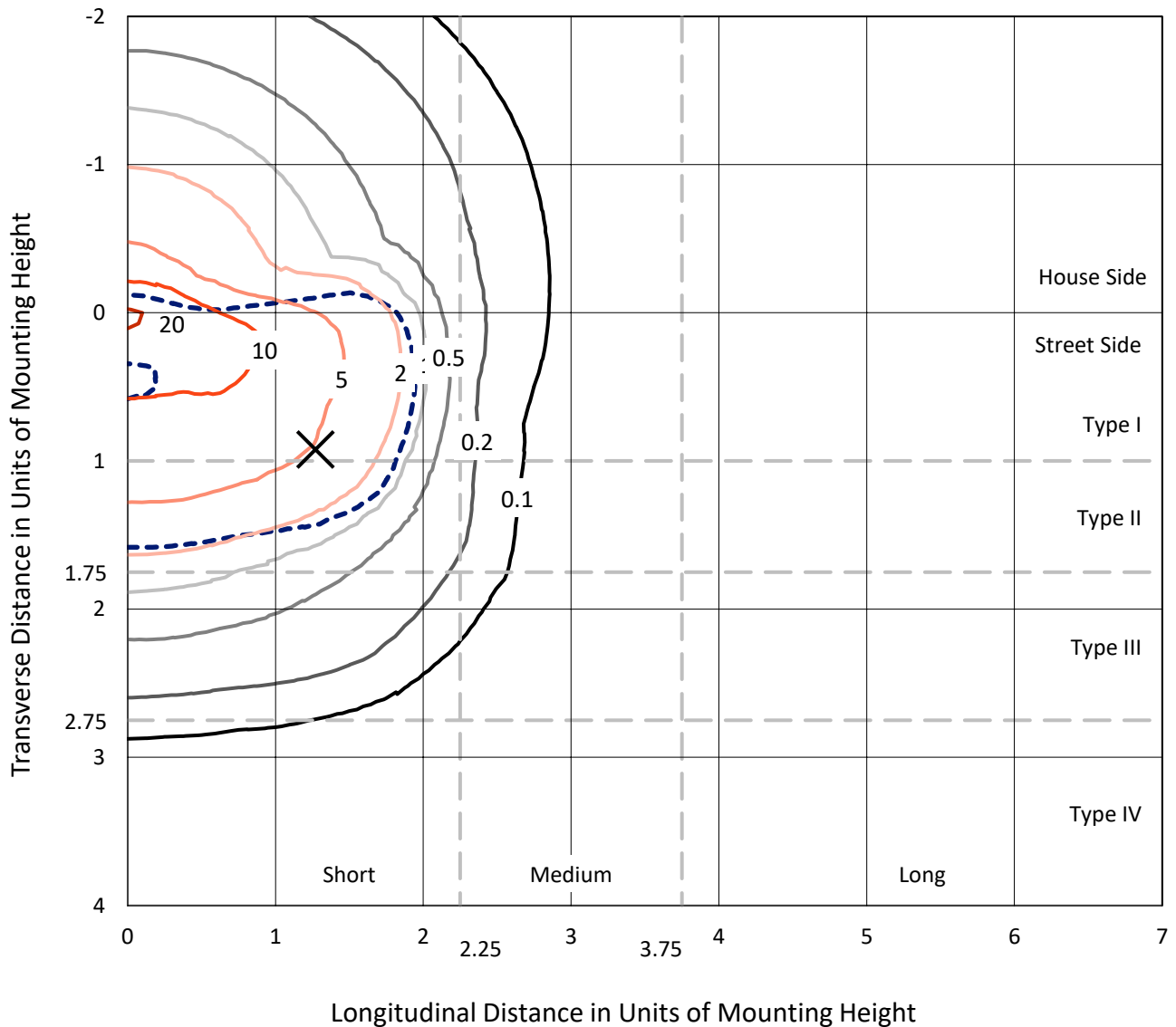
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

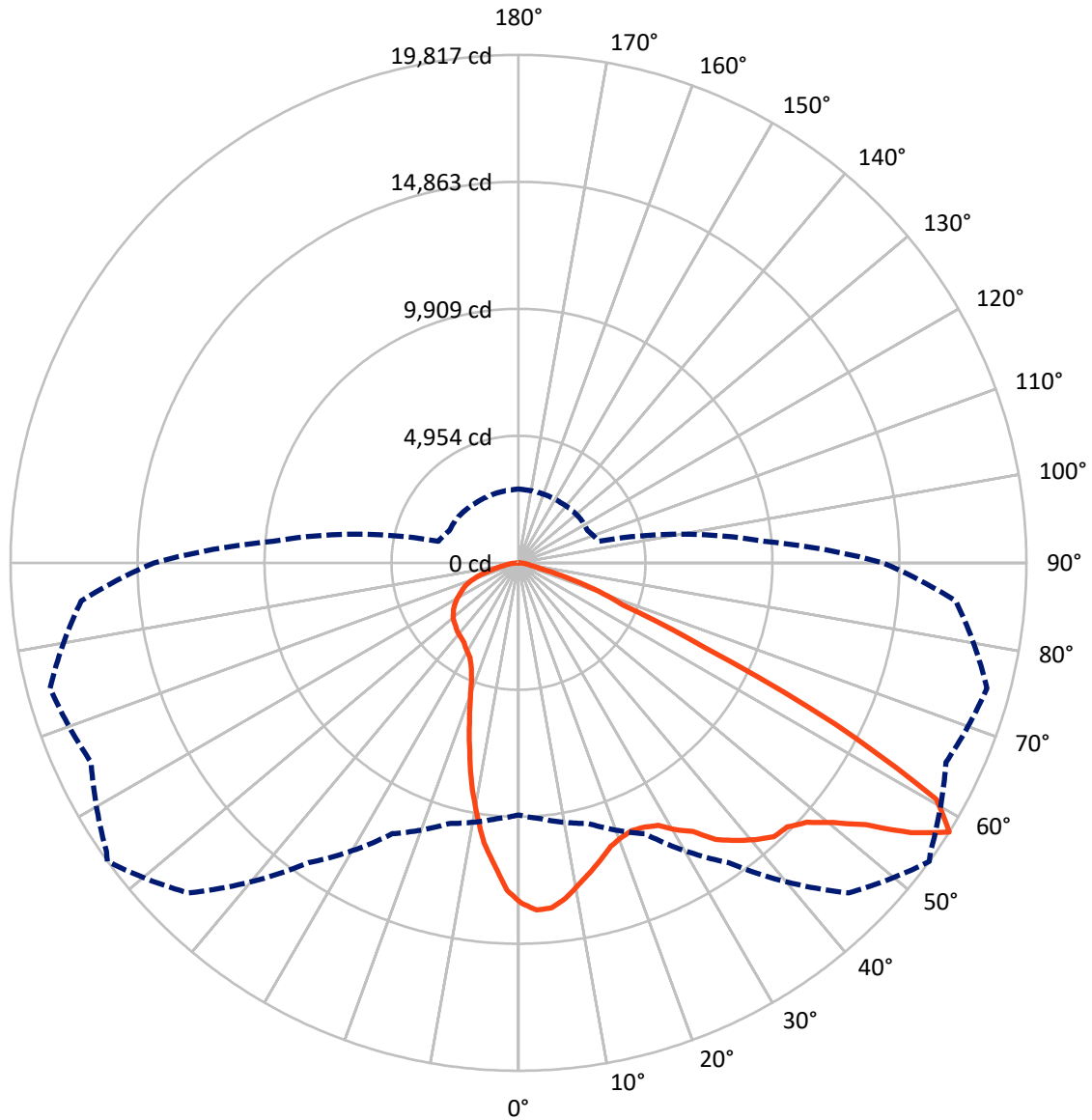
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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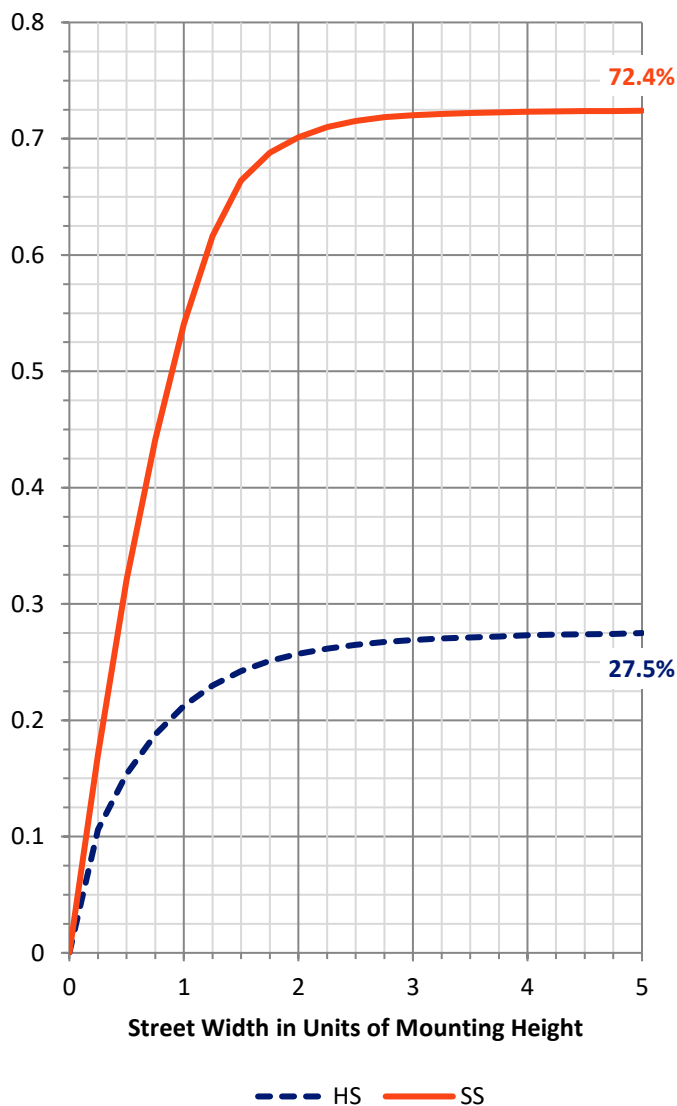
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9453.6	0.0	9453.6
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	24717.3	0.0	24717.3
	% Fixture	72.3	0.0	72.3
Total	Lumens	34170.9	0.0	34170.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1145.4	3.4
10°-20°	2652.1	7.8
20°-30°	3726.2	10.9
30°-40°	5209.3	15.2
40°-50°	7052.4	20.6
50°-60°	8590.1	25.1
60°-70°	4474.1	13.1
70°-80°	1146.4	3.4
80°-90°	174.9	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°	34170.9	100.0
0°-180°	34170.9	100.0

Coefficient of Utilization



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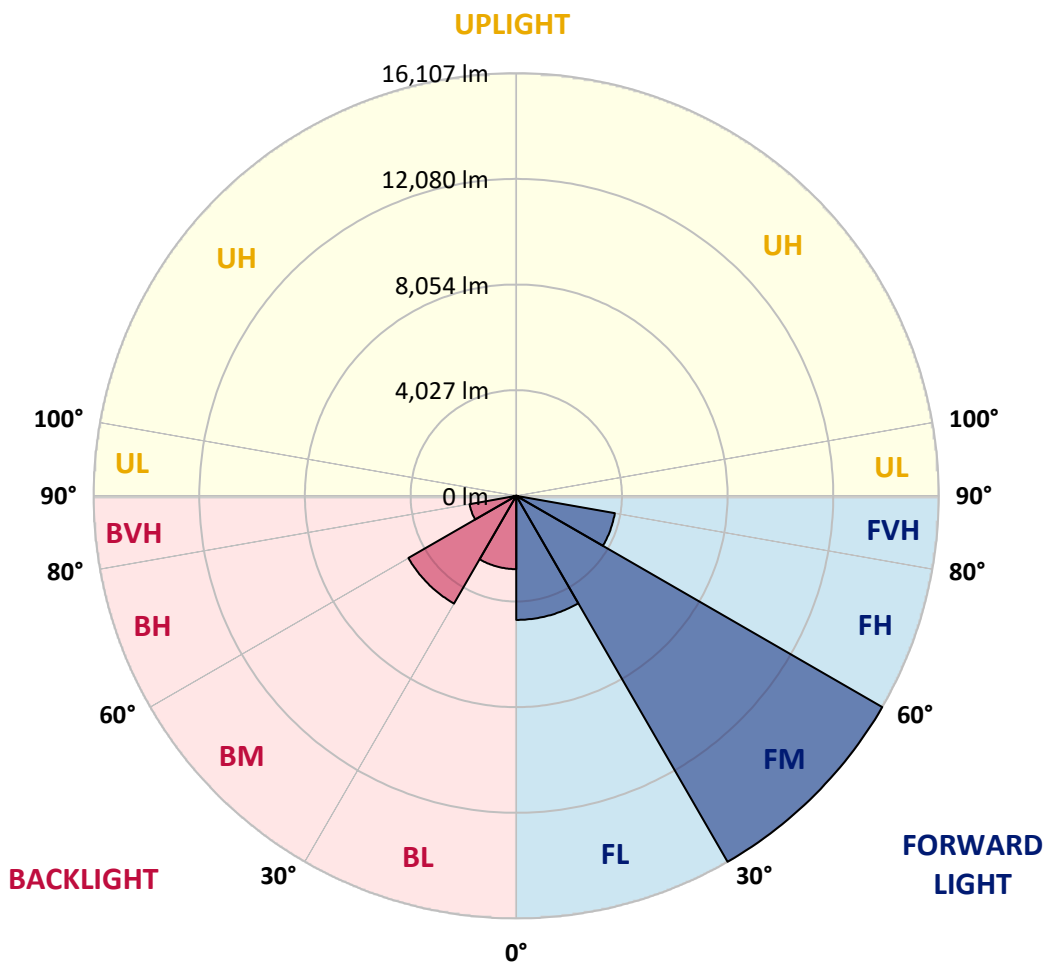
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4729.7	13.8			
FM (30°-60°)	16107.1	47.1			
FH (60°-80°)	3814.4	11.2			G2/5000
FVH (80°-90°)	66.1	0.2			G1/100
BL (0°-30°)	2794.0	8.2	B4/5000		
BM (30°-60°)	4744.7	13.9	B3/5000		
BH (60°-80°)	1806.1	5.3	B3/2500		G3/2500
BVH (80°-90°)	108.8	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°	54°	55°	65°	75°	85°
0°	13281.9	13281.9	13281.9	13281.9	13281.9	13281.9	13281.9	13281.9	13281.9	13281.9	13281.9
2.5°	13659.6	13606.9	13615.7	13685.9	13598.0	13563.0	13563.0	13391.6	13404.8	13286.3	13255.5
5°	13343.3	13220.3	13303.8	13409.2	13426.8	13461.9	13519.0	13475.1	13352.1	13224.7	13018.3
7.5°	12517.6	12627.4	12658.1	12732.8	12890.9	13035.9	13215.9	13093.0	13088.5	12961.2	12838.2
10°	11792.9	11727.0	11893.9	12003.7	12267.3	12508.8	12785.5	12772.4	12838.2	12693.3	12482.5
12.5°	11072.6	11019.9	11098.9	11349.3	11718.2	12069.6	12399.0	12276.0	12627.4	12601.1	12148.6
15°	10308.4	10347.9	10462.1	10694.8	11178.0	11599.7	12016.9	12021.3	12333.1	12438.6	11832.5
17.5°	9772.5	9728.6	9873.6	10220.5	10650.9	11156.0	11630.4	11727.0	12205.8	12267.3	11735.8
20°	9372.8	9434.3	9623.1	9798.9	10295.2	10905.7	11441.5	11476.7	12179.4	12346.3	11582.1
22.5°	9276.2	9241.0	9302.6	9588.1	9996.5	10659.8	11340.5	11472.3	12175.0	12320.0	11292.2
25°	9175.2	9289.4	9285.0	9570.5	9869.2	10462.1	11424.0	11568.9	12407.8	12456.1	11331.7
27.5°	9403.6	9390.4	9513.4	9535.4	9904.2	10514.8	11599.7	11709.5	12794.3	12754.8	11362.5
30°	9632.0	9566.1	9640.8	9899.9	10071.2	10817.8	12082.8	12074.0	13295.0	13268.6	11459.1
32.5°	9913.1	9882.3	9930.6	10159.0	10448.9	11222.0	12491.3	12750.4	13804.5	13971.4	11792.9
35°	9965.8	10093.1	10207.3	10514.8	10927.6	11876.4	13259.9	13475.1	14393.0	14915.7	12429.7
37.5°	10299.6	10347.9	10615.8	11160.4	11538.1	12750.4	13747.4	13883.5	14928.9	15521.8	13101.8
40°	10655.3	10712.5	11116.5	11687.5	12205.8	13321.3	14204.2	14248.1	15100.2	15987.4	13541.0
42.5°	11138.5	11191.2	11590.8	12306.8	13000.8	13808.9	14608.3	14656.6	15087.0	16523.3	14239.3
45°	11639.1	11766.5	12236.5	13049.1	13672.7	14379.9	14700.5	14898.1	15210.0	17002.0	14805.9
47.5°	12342.0	12460.5	12847.0	13642.0	14371.1	14880.6	15126.5	15319.8	15504.3	17419.2	15170.5
50°	13088.5	13110.6	13580.5	14300.8	14836.7	15447.2	15921.5	15987.4	15890.8	17902.4	15789.7
52.5°	13637.6	13707.9	14072.4	14775.1	15574.6	16325.6	16975.6	17045.9	16857.1	18082.4	16000.6
55°	12728.4	12688.9	13281.9	14217.4	16070.8	17634.4	18578.8	18631.5	17559.8	18640.3	16690.1
57.5°	9838.4	10027.3	10532.4	11661.1	14278.9	18214.2	19817.3	19628.5	18403.1	18921.4	17129.4
60°	7150.4	7106.5	7444.7	8200.1	10760.8	15697.5	18736.9	18930.1	17713.5	17054.7	14125.2
62.5°	5824.0	5762.5	5788.9	5815.2	6944.0	10418.1	13870.4	13866.0	13642.0	12258.5	9526.5
65°	4655.6	4800.6	4813.8	5011.4	5156.4	6223.7	8037.7	8468.1	7374.4	6048.0	4387.8
67.5°	3509.3	3456.6	3632.3	4335.1	4607.3	4493.2	4387.8	4436.1	3153.5	2275.2	2143.4
70°	2068.7	2046.8	2257.5	3021.8	3794.8	3570.8	3307.3	3311.7	2165.3	1590.0	1770.0
72.5°	1133.2	1128.8	1172.7	1532.9	2156.5	2240.0	1985.2	2046.8	1291.3	1286.9	1383.6
75°	632.5	619.3	606.1	676.4	777.4	821.4	838.9	847.7	887.2	992.6	1032.2
77.5°	232.8	224.0	224.0	259.2	329.4	412.9	522.7	531.4	628.0	720.3	759.8
80°	79.1	87.9	118.6	162.5	219.6	294.3	355.8	364.6	443.6	505.1	518.3
82.5°	48.3	52.7	79.1	114.2	158.1	206.4	263.6	267.9	329.4	368.9	386.5
85°	21.9	26.4	43.9	70.3	101.0	136.2	140.5	140.5	136.2	140.5	131.8
87.5°	0.0	0.0	8.8	8.8	8.8	13.2	17.5	13.2	21.9	26.4	26.4
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°	13281.9	13281.9	13281.9	13281.9	13281.9	13281.9	13281.9	13281.9	13281.9	13281.9	13281.9
2.5°	13163.2	13114.9	12965.6	12833.8	12794.3	12618.6	12359.5	12390.3	12201.4	12289.2	12196.9
5°	12983.2	12820.7	12438.6	12276.0	11850.0	11656.8	11525.0	11195.6	11041.9	11011.1	10879.3
7.5°	12522.0	12421.0	11942.2	11503.1	11050.6	10664.1	10167.8	9829.6	9588.1	9522.1	9328.9
10°	12157.5	11933.5	11270.3	10602.6	9957.0	9285.0	8639.3	8134.3	7888.3	7602.8	7506.2
12.5°	11797.3	11459.1	10563.1	9706.6	8872.1	8024.4	7242.7	6627.8	6091.9	5964.5	5920.6
15°	11573.3	10984.8	9930.6	8898.5	7712.6	6605.8	5824.0	5419.9	5090.5	4954.4	5051.0
17.5°	11279.0	10593.8	9324.5	7949.8	6645.3	5626.3	4971.9	4721.6	4602.9	4616.2	4576.6
20°	10910.1	10224.9	8529.5	7088.9	5692.3	4879.7	4506.3	4414.1	4431.7	4462.4	4449.2
22.5°	10646.5	9776.9	7954.2	6210.5	4919.2	4466.8	4313.1	4247.2	4304.3	4330.6	4308.7
25°	10444.5	9394.8	7255.8	5433.1	4471.2	4234.0	4163.8	4159.4	4247.2	4282.3	4260.4
27.5°	10260.0	9039.0	6561.9	4840.1	4172.5	4054.0	4032.0	4084.7	4141.8	4176.9	4207.7
30°	10150.3	8766.7	5911.8	4343.8	4023.2	3966.1	3926.6	3974.9	4005.7	4040.7	4023.2
32.5°	10255.7	8573.5	5283.8	4062.8	3900.2	3843.1	3895.8	3865.1	3917.8	3948.5	3900.2
35°	10585.1	8402.1	4835.7	3913.4	3759.7	3781.7	3790.4	3777.3	3799.2	3772.9	3830.0
37.5°	10910.1	8340.7	4422.9	3786.0	3693.8	3693.8	3685.0	3658.6	3702.6	3693.8	3720.1
40°	11323.0	8380.2	4071.5	3649.9	3632.3	3623.5	3588.4	3584.0	3566.4	3570.8	3579.6
42.5°	11683.1	8468.1	3869.5	3562.0	3575.2	3592.8	3526.9	3474.2	3496.2	3452.2	3452.2
45°	12065.2	8547.1	3689.4	3500.6	3487.3	3482.9	3430.2	3399.6	3381.9	3386.3	3425.9
47.5°	12666.9	8661.3	3553.3	3417.1	3425.9	3360.0	3346.8	3307.3	3324.9	3351.2	3355.6
50°	13093.0	8902.9	3447.9	3320.5	3351.2	3307.3	3228.2	3210.7	3210.7	3254.5	3245.8
52.5°	13391.6	9241.0	3346.8	3215.1	3228.2	3193.1	3166.8	3127.2	3100.8	3162.4	3193.1
55°	14305.2	9803.2	3320.5	3127.2	3122.8	3087.7	3039.4	2999.8	2986.7	2995.4	3056.9
57.5°	14217.4	9627.6	3237.0	2973.4	2964.7	2916.4	2868.1	2854.9	2850.5	2859.3	2876.8
60°	11542.5	7110.9	2890.1	2797.8	2784.6	2775.8	2727.5	2674.8	2648.5	2674.8	2652.9
62.5°	7637.9	4761.1	2547.4	2587.0	2595.7	2573.8	2494.7	2442.0	2450.8	2481.6	2433.3
65°	3750.9	2797.8	2310.2	2415.7	2424.5	2362.9	2288.3	2226.9	2196.1	2222.4	2200.5
67.5°	2143.4	2139.0	2117.0	2226.9	2222.4	2160.9	2042.4	1989.6	1936.9	1945.8	1932.5
70°	1818.4	1853.5	1897.4	1963.3	1958.9	1888.6	1748.0	1708.5	1633.9	1625.1	1603.1
72.5°	1431.9	1493.3	1590.0	1638.3	1598.7	1510.9	1418.6	1352.8	1286.9	1247.4	1260.6
75°	1062.9	1150.8	1203.5	1234.2	1172.7	1124.4	1049.7	970.7	891.6	856.4	843.3
77.5°	773.1	799.4	847.7	869.7	830.1	781.8	737.9	658.8	584.1	535.8	522.7
80°	540.3	557.8	593.0	593.0	593.0	571.0	513.9	434.8	386.5	342.6	333.8
82.5°	377.7	395.3	430.4	412.9	408.5	382.1	346.9	285.5	232.8	202.0	193.2
85°	131.8	144.9	175.7	210.9	224.0	219.6	197.6	158.1	123.0	101.0	92.2
87.5°	30.8	30.8	35.2	30.8	30.8	35.2	30.8	30.8	30.8	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)