

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: P648004

Luminaire Tested: **GALN-SA6A-835-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648004
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6A-835-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17810.9 lumens
Efficiency: N/A
Efficacy: 97.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

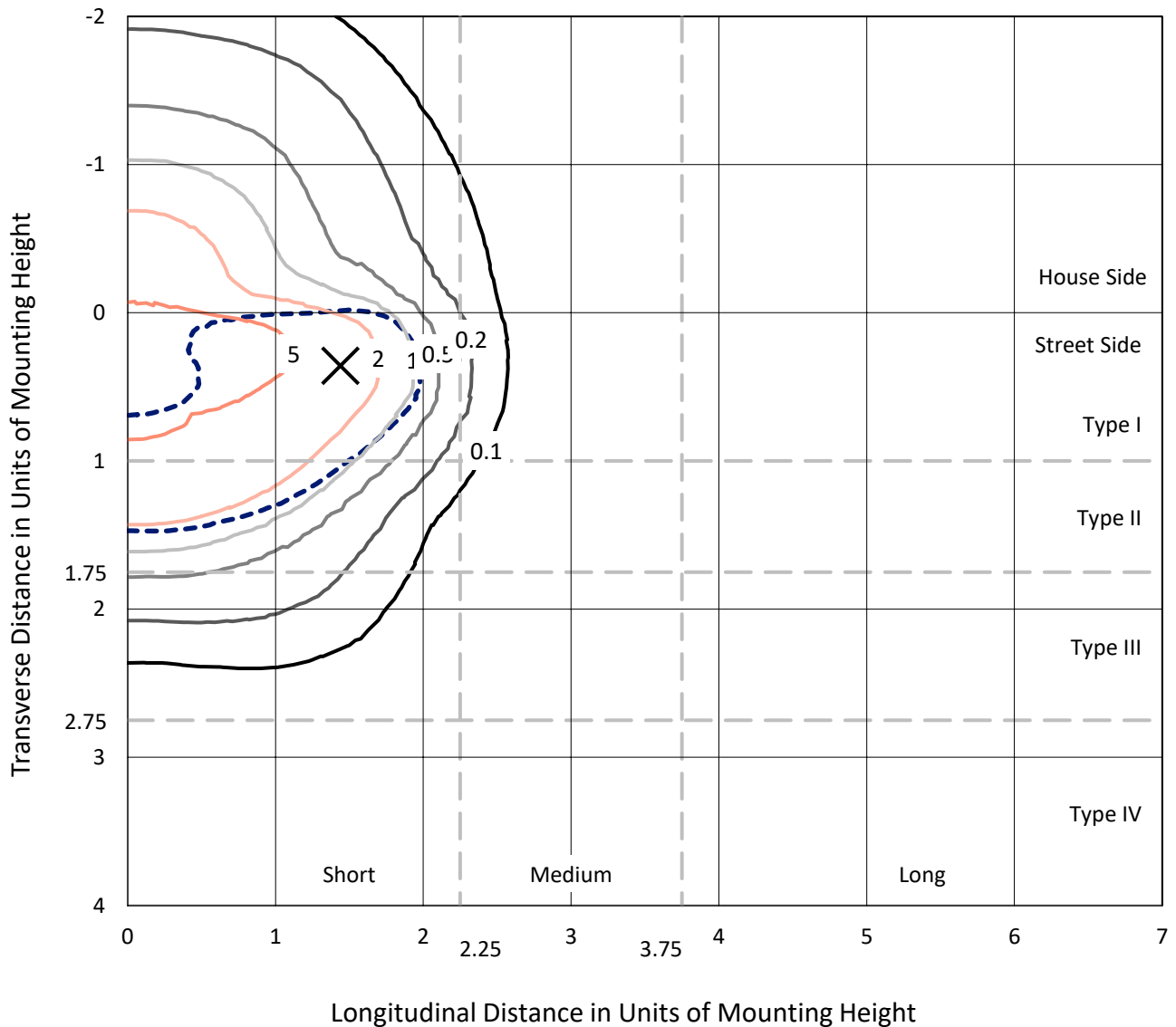
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

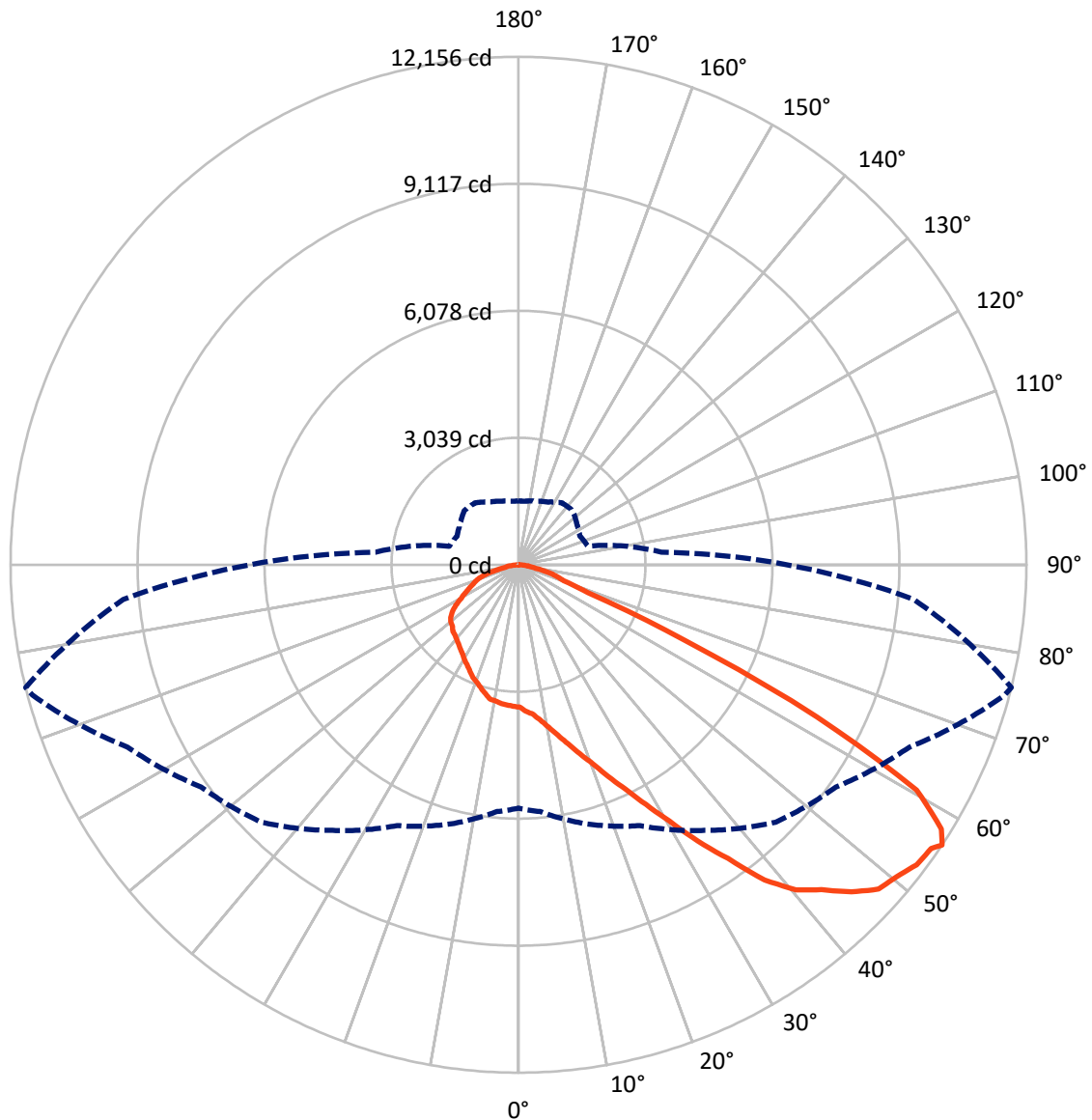
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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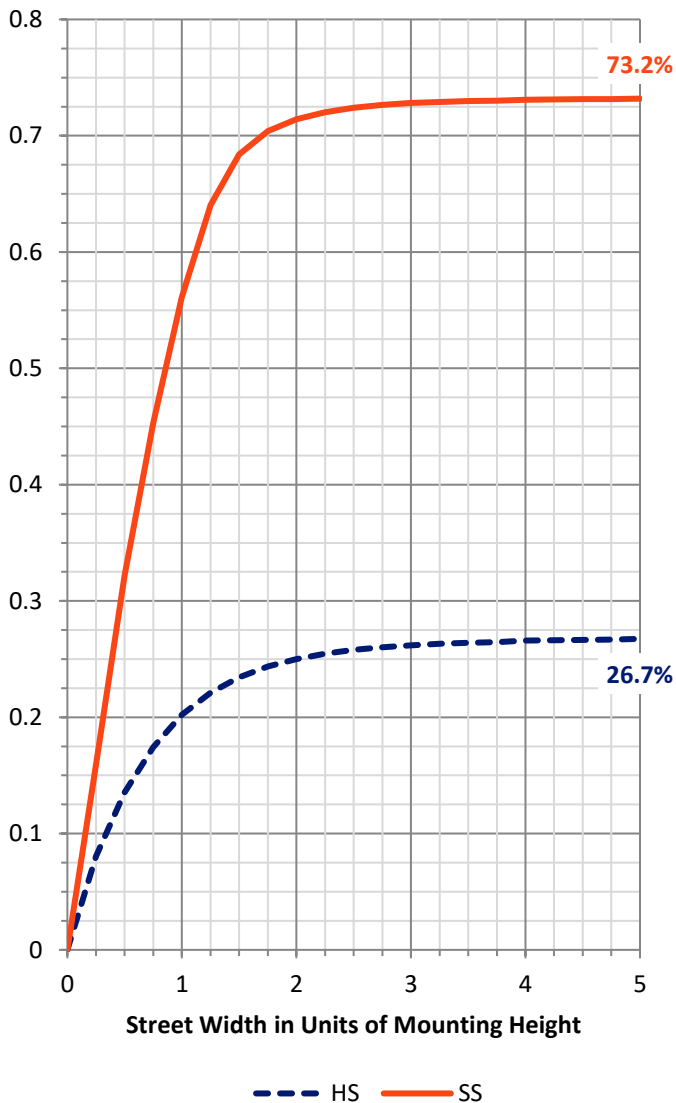
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4788.8	0.0	4788.8
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	13022.1	0.0	13022.1
	% Fixture	73.1	0.0	73.1
Total	Lumens	17810.9	0.0	17810.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	338.0	1.9
10°-20°	1061.6	6.0
20°-30°	1856.7	10.4
30°-40°	2907.0	16.3
40°-50°	4228.9	23.7
50°-60°	4647.8	26.1
60°-70°	2074.6	11.6
70°-80°	599.2	3.4
80°-90°	97.2	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°	17810.9	100.0
0°-180°	17810.9	100.0

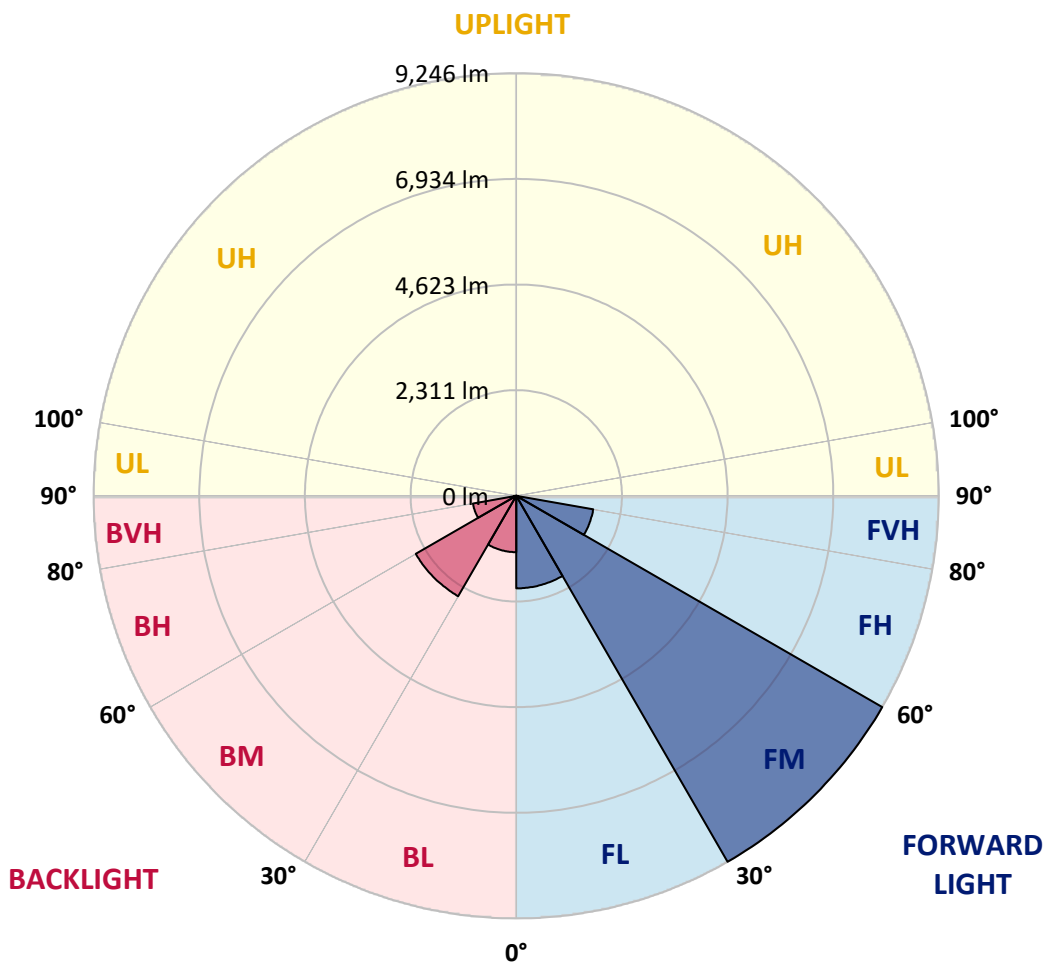


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2024.0	11.4			
FM (30°-60°)	9246.0	51.9			
FH (60°-80°)	1710.3	9.6			G1/1800
FVH (80°-90°)	41.8	0.2			G1/100
BL (0°-30°)	1232.3	6.9	B3/2500		
BM (30°-60°)	2537.7	14.2	B3/5000		
BH (60°-80°)	963.5	5.4	B2/1000		G2/1000
BVH (80°-90°)	55.4	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3407.9	3407.9	3407.9	3407.9	3407.9	3407.9	3407.9	3407.9	3407.9	3407.9	3407.9
2.5°	3754.3	3694.2	3689.6	3673.4	3682.6	3641.1	3597.2	3539.5	3479.5	3516.4	3428.7
5°	4017.4	3936.6	3968.9	3913.5	3920.5	3865.0	3775.0	3708.1	3634.1	3590.3	3528.0
7.5°	4109.8	4116.7	4139.8	4130.6	4084.4	4084.4	4024.4	3906.6	3777.3	3751.9	3648.0
10°	4234.5	4236.7	4211.4	4218.3	4282.9	4252.9	4199.9	4149.0	3982.8	3952.7	3768.1
12.5°	4278.3	4236.7	4278.3	4315.3	4391.5	4433.0	4421.4	4384.6	4206.7	4186.0	3915.9
15°	4285.3	4259.8	4294.5	4377.6	4444.5	4620.0	4707.8	4682.4	4446.9	4449.2	4082.1
17.5°	4252.9	4287.6	4301.4	4373.0	4527.7	4691.6	4945.6	4980.2	4786.2	4756.3	4292.2
20°	4296.8	4271.4	4289.9	4354.5	4560.0	4816.3	5148.8	5377.3	5104.9	5084.1	4509.2
22.5°	4465.4	4430.7	4426.1	4467.6	4615.4	4880.9	5363.5	5774.5	5492.8	5504.3	4779.4
25°	4596.9	4615.4	4599.3	4596.9	4689.3	4977.9	5647.5	6247.8	6019.2	5952.3	5098.0
27.5°	4823.2	4867.1	4834.8	4878.6	4857.9	5123.4	5850.7	6771.9	6587.2	6497.2	5386.6
30°	5137.3	5160.3	5130.3	5130.3	5068.0	5326.6	6035.4	7319.1	7242.9	7120.5	5726.0
32.5°	5550.5	5585.1	5525.1	5490.5	5481.2	5629.0	6367.8	7859.4	7988.7	7884.8	6176.2
35°	6097.7	6076.9	6005.4	5973.0	5848.4	6093.1	6862.0	8480.4	8819.9	8635.2	6721.1
37.5°	6580.3	6547.9	6543.3	6363.2	6393.3	6594.1	7282.1	8951.5	9625.7	9572.6	7296.0
40°	7030.5	7060.5	7109.0	7007.4	6961.3	7182.9	7771.7	9311.7	10251.3	10230.6	7739.3
42.5°	7513.0	7485.3	7570.7	7485.3	7416.1	7730.1	8302.7	9561.0	10800.9	10630.0	8203.4
45°	8212.7	8124.9	8154.9	8161.8	8111.0	8226.5	8522.0	9741.1	11186.5	11168.0	8542.8
47.5°	8796.8	8799.1	8748.3	8709.1	8554.4	8669.8	8766.8	9854.2	11629.7	11599.8	8674.4
50°	9013.8	8983.8	9131.6	9217.0	9226.2	8990.7	8958.4	9916.6	11862.9	11731.4	8806.0
52.5°	8233.4	8261.1	8494.3	9002.3	9295.5	9320.9	9182.4	10045.9	11957.6	11929.9	8912.3
55°	6626.5	6760.3	7143.6	7730.1	8425.1	9189.3	9424.8	10179.8	12008.4	11985.3	9383.2
56°	5825.3	5929.2	6427.9	6887.3	7760.1	8711.3	9272.4	10322.9	12047.6	12156.2	9494.0
57.5°	4689.3	4809.3	5167.3	5689.0	6718.8	7801.7	8852.2	10147.4	11895.3	11936.8	9574.8
60°	2932.3	2943.8	3373.2	3717.3	4442.3	5499.7	6755.7	8829.1	11008.7	10948.6	8600.6
62.5°	1923.3	1925.6	2315.8	2597.4	2927.6	3170.1	3975.8	5855.3	8122.6	8016.4	6123.1
65°	1350.7	1380.7	1683.1	2059.5	2193.4	2066.4	2041.0	3087.0	4536.9	4384.6	3290.2
67.5°	988.2	990.5	1258.4	1662.4	1856.3	1572.3	1276.8	1507.7	1796.3	1791.7	1523.9
70°	653.4	681.1	886.6	1242.2	1463.8	1263.0	1043.6	1078.3	1142.9	1142.9	1133.6
72.5°	380.9	406.4	542.6	787.3	822.0	789.7	826.6	923.5	965.1	962.8	951.3
75°	217.0	228.6	258.6	327.8	408.6	482.6	607.2	699.6	741.1	766.6	736.5
77.5°	127.0	133.9	152.4	187.0	212.4	260.9	330.2	394.8	450.2	443.3	448.0
80°	66.9	66.9	85.4	110.8	147.8	184.7	219.3	256.3	286.3	293.2	300.1
82.5°	39.2	41.6	55.4	80.8	106.2	131.6	168.6	193.9	221.7	223.9	228.6
85°	20.7	23.1	34.6	53.1	71.6	80.8	83.2	78.5	85.4	80.8	92.3
87.5°	6.9	6.9	11.5	9.2	9.2	11.5	13.9	13.9	18.5	18.5	18.5
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°	3407.9	3407.9	3407.9	3407.9	3407.9	3407.9	3407.9	3407.9	3407.9	3407.9	3407.9
2.5°	3426.3	3426.3	3387.1	3313.2	3301.7	3271.7	3244.0	3241.6	3220.9	3202.4	3193.2
5°	3491.0	3419.4	3361.7	3294.8	3216.3	3179.3	3137.7	3091.6	3073.1	3091.6	3089.2
7.5°	3564.9	3504.9	3331.7	3207.0	3117.0	3080.0	3033.8	2985.3	2990.0	2990.0	2957.6
10°	3636.5	3555.7	3278.6	3119.3	2987.7	2960.0	2934.6	2953.0	2976.1	2980.7	2960.0
12.5°	3756.5	3574.2	3253.2	3031.5	2948.4	2888.4	2904.5	2955.4	3003.8	2990.0	3006.2
15°	3846.6	3590.3	3137.7	2941.5	2837.6	2865.3	2923.0	2957.6	3038.4	3029.3	3045.4
17.5°	3934.3	3599.5	3024.7	2821.5	2777.5	2853.7	2897.6	2996.9	3022.3	3077.7	3098.5
20°	4114.4	3618.0	2909.2	2747.5	2733.7	2821.5	2897.6	2943.8	2999.2	3047.7	3047.7
22.5°	4206.7	3608.8	2833.0	2650.6	2694.5	2749.9	2819.1	2897.6	2897.6	2943.8	2946.1
25°	4322.2	3571.8	2712.9	2604.4	2636.8	2689.8	2768.3	2740.7	2770.6	2770.6	2807.6
27.5°	4453.8	3493.3	2609.0	2521.3	2585.9	2643.6	2655.2	2636.8	2602.1	2597.4	2583.6
30°	4560.0	3396.3	2532.8	2493.5	2546.7	2579.0	2542.1	2502.8	2442.8	2438.2	2405.8
32.5°	4705.4	3276.3	2438.2	2424.3	2484.3	2486.7	2475.1	2415.1	2327.3	2290.4	2253.5
35°	4950.2	3207.0	2366.6	2387.4	2405.8	2398.9	2378.1	2313.5	2225.8	2209.5	2195.8
37.5°	5130.3	3156.2	2292.7	2318.1	2334.3	2343.5	2281.2	2209.5	2211.9	2179.6	2170.3
40°	5333.5	3123.9	2232.6	2244.2	2246.5	2276.6	2200.4	2165.7	2181.9	2161.1	2174.9
42.5°	5594.4	3133.1	2170.3	2161.1	2205.0	2193.4	2156.5	2110.3	2119.5	2057.2	2066.4
45°	5732.9	3195.5	2133.4	2091.9	2140.3	2138.0	2089.5	2045.7	1990.2	1870.2	1874.8
47.5°	5825.3	3211.6	2045.7	2017.9	2068.8	2098.8	2043.3	1941.8	1863.2	1777.8	1757.1
50°	5919.9	3241.6	2004.1	1946.4	1967.1	2038.7	1969.5	1872.5	1796.3	1720.1	1731.7
52.5°	6003.0	3299.4	1923.3	1837.9	1874.8	1953.3	1916.4	1798.6	1715.5	1653.1	1634.7
55°	6372.4	3428.7	1787.0	1676.2	1763.9	1863.2	1842.5	1699.3	1609.3	1577.0	1572.3
56°	6430.2	3433.3	1715.5	1620.8	1701.6	1833.2	1807.9	1655.4	1574.6	1523.9	1526.1
57.5°	6439.4	3377.9	1613.9	1570.0	1639.3	1789.4	1757.1	1620.8	1510.0	1463.8	1450.0
60°	5665.9	2636.8	1486.9	1459.2	1540.0	1655.4	1643.9	1526.1	1401.5	1348.4	1373.8
62.5°	3862.7	1932.5	1387.6	1383.0	1424.6	1537.7	1507.7	1401.5	1297.6	1263.0	1246.8
65°	2248.9	1466.2	1290.6	1272.2	1306.8	1366.9	1387.6	1276.8	1168.3	1145.2	1138.2
67.5°	1327.6	1212.2	1166.0	1136.0	1124.4	1161.3	1177.6	1112.9	1004.4	972.0	999.7
70°	1110.5	1078.3	1080.5	1029.7	1002.1	976.6	962.8	905.1	815.0	773.4	761.9
72.5°	958.2	944.3	935.1	888.9	863.5	805.8	745.7	688.0	621.1	586.5	588.7
75°	731.9	727.3	731.9	708.8	664.9	618.8	563.4	489.5	438.7	394.8	404.0
77.5°	436.4	450.2	457.2	448.0	429.5	387.9	353.3	304.7	256.3	221.7	217.0
80°	300.1	311.7	323.2	311.7	293.2	263.2	226.3	189.3	154.7	136.2	131.6
82.5°	228.6	240.1	247.0	235.5	212.4	180.1	154.7	129.3	101.6	83.2	78.5
85°	83.2	94.7	92.3	110.8	120.0	115.4	99.3	76.2	57.7	41.6	39.2
87.5°	23.1	20.7	23.1	23.1	23.1	20.7	18.5	18.5	18.5	11.5	9.2
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)