

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: P646904

Luminaire Tested: **GALN-SA4C-835-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P646904
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-SA4C-835-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 1050mA 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: 18265.8 lumens
Efficiency: N/A
Efficacy: 85.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

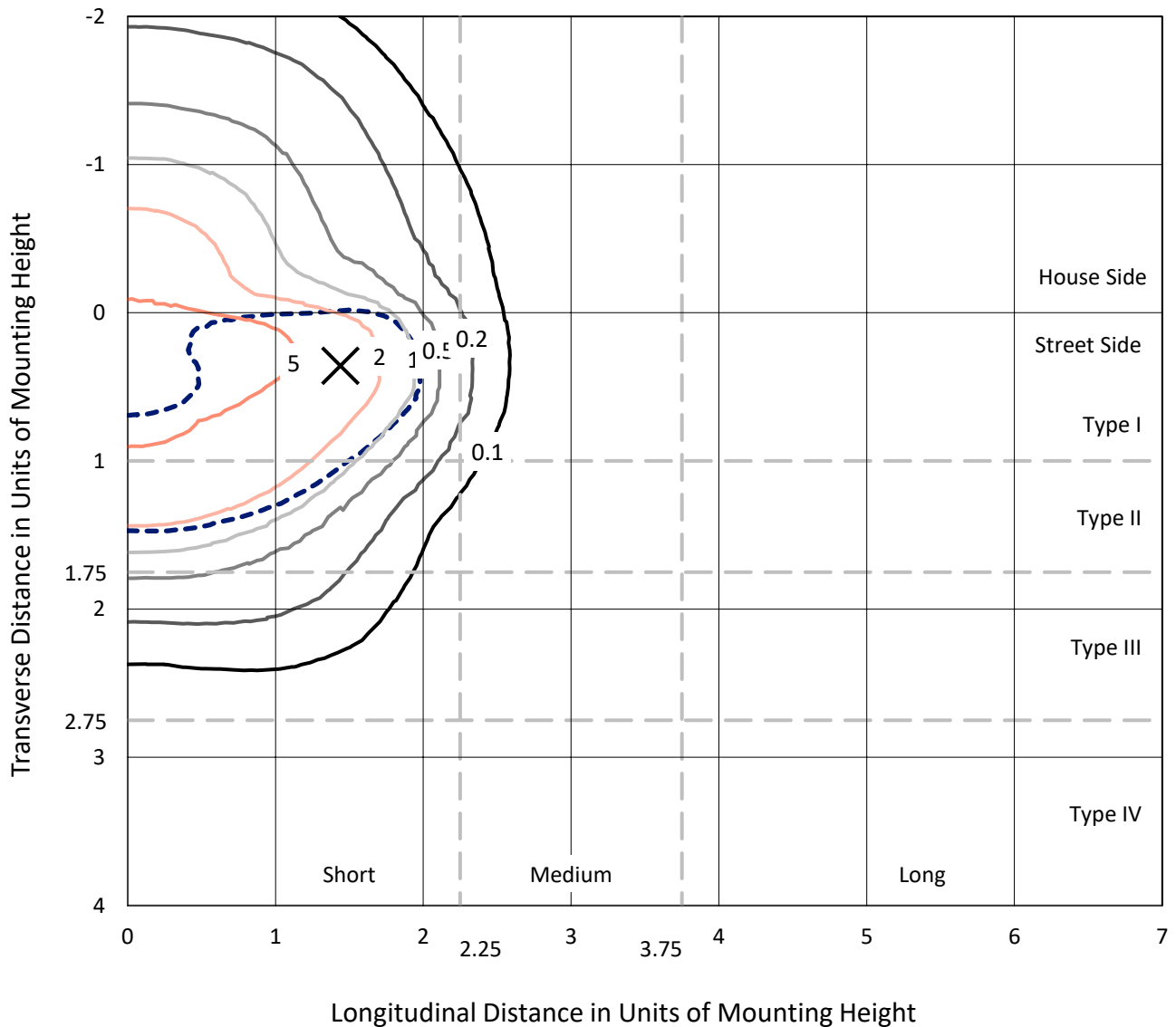
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

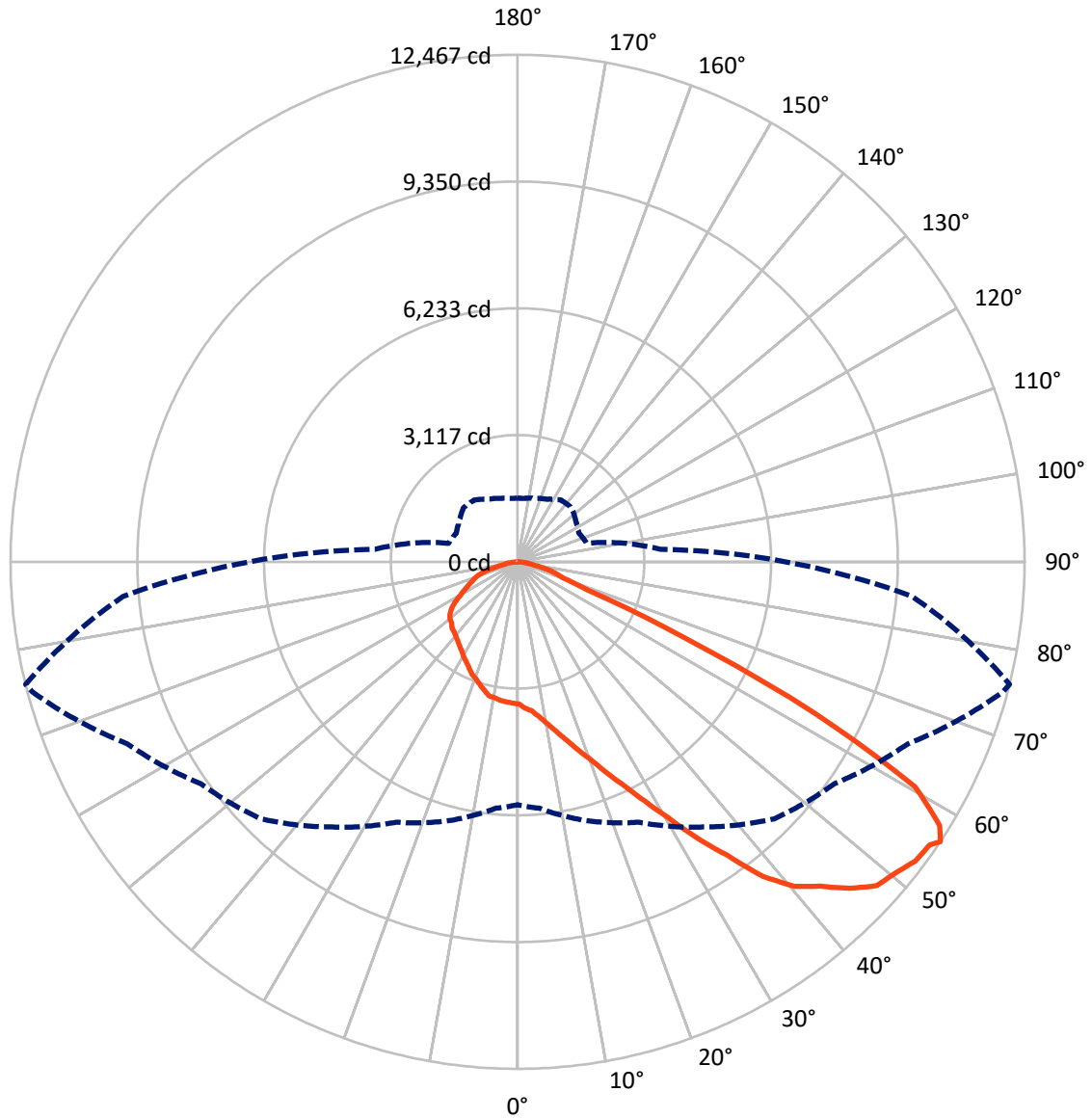
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 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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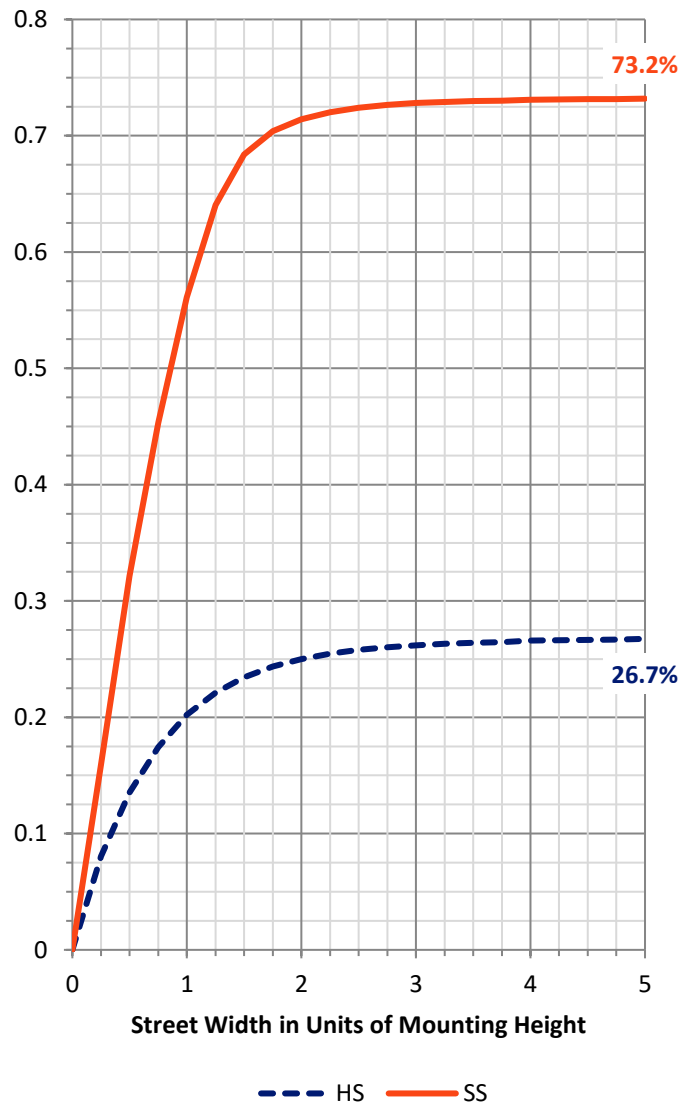
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4911.1	0.0	4911.1
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	13354.7	0.0	13354.7
	% Fixture	73.1	0.0	73.1
Total	Lumens	18265.8	0.0	18265.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	346.6	1.9
10°-20°	1088.7	6.0
20°-30°	1904.1	10.4
30°-40°	2981.3	16.3
40°-50°	4336.9	23.7
50°-60°	4766.5	26.1
60°-70°	2127.6	11.6
70°-80°	614.5	3.4
80°-90°	99.7	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°	18265.8	100.0
0°-180°	18265.8	100.0

Coefficient of Utilization



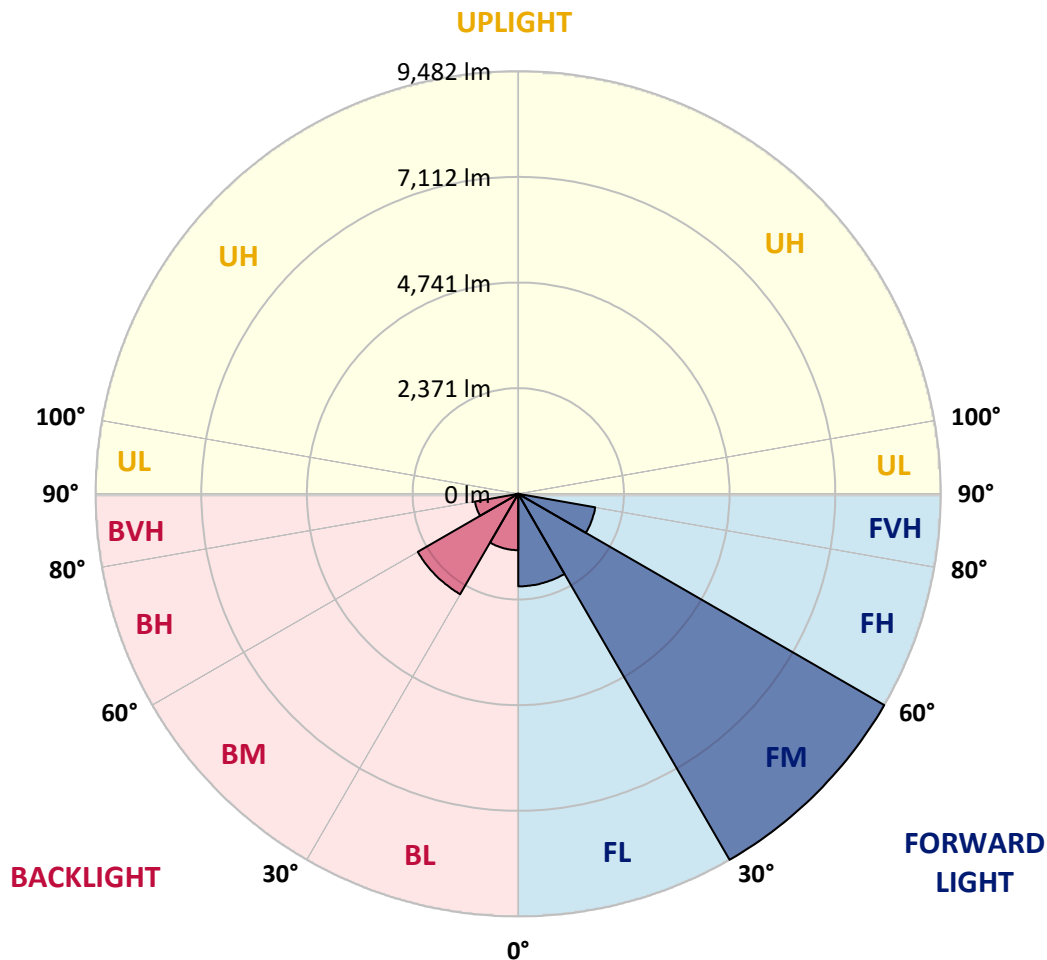
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2075.7	11.4			
FM (30°-60°)	9482.1	51.9			
FH (60°-80°)	1753.9	9.6			G1/1800
FVH (80°-90°)	42.9	0.2			G1/100
BL (0°-30°)	1263.7	6.9	B3/2500		
BM (30°-60°)	2602.5	14.2	B3/5000		
BH (60°-80°)	988.1	5.4	B2/1000		G2/1000
BVH (80°-90°)	56.8	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°	3494.9	3494.9	3494.9	3494.9	3494.9	3494.9	3494.9	3494.9	3494.9	3494.9	3494.9
2.5°	3850.1	3788.5	3783.8	3767.2	3776.7	3734.0	3689.1	3629.9	3568.4	3606.2	3516.2
5°	4120.1	4037.1	4070.3	4013.5	4020.6	3963.8	3871.4	3802.7	3727.0	3682.0	3618.1
7.5°	4214.7	4221.9	4245.5	4236.0	4188.7	4188.7	4127.1	4006.4	3873.8	3847.7	3741.2
10°	4342.6	4345.0	4318.9	4326.1	4392.3	4361.5	4307.1	4255.0	4084.5	4053.7	3864.3
12.5°	4387.6	4345.0	4387.6	4425.5	4503.7	4546.3	4534.4	4496.5	4314.2	4292.9	4015.9
15°	4394.7	4368.7	4404.2	4489.4	4558.1	4738.0	4828.1	4802.0	4560.4	4562.9	4186.3
17.5°	4361.5	4397.1	4411.3	4484.7	4643.3	4811.5	5071.9	5107.4	4908.5	4877.8	4401.8
20°	4406.6	4380.5	4399.4	4465.8	4676.5	4939.3	5280.3	5514.7	5235.3	5214.0	4624.4
22.5°	4579.4	4543.9	4539.1	4581.8	4733.3	5005.6	5500.5	5922.0	5633.1	5645.0	4901.4
25°	4714.4	4733.3	4716.7	4714.4	4809.1	5105.1	5791.8	6407.4	6172.9	6104.3	5228.2
27.5°	4946.4	4991.4	4958.3	5003.2	4981.9	5254.2	6000.1	6944.9	6755.4	6663.1	5524.1
30°	5268.4	5292.1	5261.4	5261.4	5197.4	5462.6	6189.5	7506.1	7427.9	7302.4	5872.3
32.5°	5692.3	5727.8	5666.3	5630.7	5621.2	5772.8	6530.5	8060.1	8192.7	8086.2	6334.0
35°	6253.4	6232.1	6158.8	6125.6	5997.7	6248.7	7037.2	8697.1	9045.1	8855.7	6892.7
37.5°	6748.4	6715.2	6710.5	6525.8	6556.5	6762.5	7468.2	9180.1	9871.5	9817.1	7482.3
40°	7210.1	7240.9	7290.6	7186.4	7139.0	7366.4	7970.2	9549.5	10513.2	10491.9	7937.0
42.5°	7705.0	7676.5	7764.1	7676.5	7605.5	7927.6	8514.7	9805.2	11076.8	10901.6	8412.9
45°	8422.4	8332.5	8363.2	8370.3	8318.2	8436.6	8739.7	9989.9	11472.2	11453.3	8761.0
47.5°	9021.5	9023.8	8971.8	8931.5	8772.8	8891.2	8990.7	10105.9	11926.8	11896.0	8896.0
50°	9244.0	9213.2	9364.8	9452.4	9461.9	9220.4	9187.3	10169.8	12165.9	12031.0	9031.0
52.5°	8443.7	8472.1	8711.3	9232.2	9532.9	9558.9	9416.9	10302.5	12263.0	12234.6	9139.9
55°	6795.7	6933.0	7326.1	7927.6	8640.2	9424.0	9665.5	10439.8	12315.1	12291.5	9622.9
56°	5974.1	6080.6	6592.1	7063.3	7958.3	8933.9	9509.2	10586.6	12355.3	12466.7	9736.5
57.5°	4809.1	4932.2	5299.2	5834.4	6890.4	8000.9	9078.3	10406.6	12199.1	12241.7	9819.4
60°	3007.2	3019.0	3459.5	3812.2	4555.7	5640.2	6928.3	9054.6	11289.8	11228.3	8820.2
62.5°	1972.4	1974.8	2374.9	2663.8	3002.4	3251.0	4077.4	6004.8	8330.0	8221.1	6279.5
65°	1385.2	1416.0	1726.1	2112.1	2249.5	2119.2	2093.2	3165.8	4652.8	4496.5	3374.2
67.5°	1013.4	1015.8	1290.5	1704.8	1903.7	1612.5	1309.4	1546.2	1842.2	1837.5	1562.8
70°	670.1	698.5	909.2	1273.9	1501.2	1295.2	1070.3	1105.8	1172.1	1172.1	1162.6
72.5°	390.7	416.7	556.5	807.4	843.0	809.8	847.7	947.1	989.8	987.4	975.5
75°	222.6	234.4	265.2	336.2	419.1	494.9	622.7	717.5	760.1	786.1	755.4
77.5°	130.2	137.3	156.3	191.8	217.8	267.6	338.6	404.9	461.7	454.6	459.4
80°	68.7	68.7	87.6	113.7	151.5	189.4	225.0	262.9	293.6	300.8	307.8
82.5°	40.2	42.6	56.8	82.8	108.9	135.0	172.9	198.9	227.3	229.7	234.4
85°	21.3	23.6	35.5	54.5	73.4	82.8	85.3	80.5	87.6	82.8	94.7
87.5°	7.1	7.1	11.8	9.5	9.5	11.8	14.2	14.2	18.9	18.9	18.9
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°	3494.9	3494.9	3494.9	3494.9	3494.9	3494.9	3494.9	3494.9	3494.9	3494.9	3494.9
2.5°	3513.9	3513.9	3473.6	3397.8	3386.0	3355.2	3326.8	3324.5	3303.2	3284.2	3274.7
5°	3580.2	3506.7	3447.5	3378.9	3298.4	3260.5	3217.9	3170.5	3151.6	3170.5	3168.2
7.5°	3655.9	3594.4	3416.8	3288.9	3196.6	3158.7	3111.3	3061.6	3066.4	3066.4	3033.2
10°	3729.4	3646.5	3362.4	3198.9	3064.0	3035.5	3009.5	3028.5	3052.1	3056.9	3035.5
12.5°	3852.4	3665.4	3336.3	3109.0	3023.7	2962.2	2978.8	3030.8	3080.6	3066.4	3082.9
15°	3944.8	3682.0	3217.9	3016.7	2910.1	2938.5	2997.7	3033.2	3116.1	3106.6	3123.2
17.5°	4034.8	3691.5	3101.9	2893.5	2848.5	2926.6	2971.6	3073.4	3099.5	3156.4	3177.6
20°	4219.5	3710.4	2983.5	2817.7	2803.5	2893.5	2971.6	3019.0	3075.9	3125.6	3125.6
22.5°	4314.2	3700.9	2905.3	2718.3	2763.3	2820.1	2891.1	2971.6	2971.6	3019.0	3021.4
25°	4432.6	3663.0	2782.2	2670.9	2704.1	2758.5	2839.0	2810.7	2841.4	2841.4	2879.3
27.5°	4567.6	3582.5	2675.7	2585.7	2651.9	2711.1	2723.0	2704.1	2668.5	2663.8	2649.6
30°	4676.5	3483.1	2597.5	2557.3	2611.7	2644.9	2607.0	2566.8	2505.2	2500.4	2467.3
32.5°	4825.6	3359.9	2500.4	2486.3	2547.8	2550.2	2538.3	2476.8	2386.8	2348.9	2311.0
35°	5076.7	3288.9	2427.1	2448.4	2467.3	2460.2	2438.9	2372.6	2282.6	2266.0	2251.8
37.5°	5261.4	3236.8	2351.3	2377.3	2393.9	2403.3	2339.4	2266.0	2268.4	2235.2	2225.8
40°	5469.7	3203.7	2289.7	2301.6	2303.9	2334.7	2256.5	2221.1	2237.6	2216.3	2230.5
42.5°	5737.3	3213.2	2225.8	2216.3	2261.3	2249.5	2211.6	2164.2	2173.7	2109.7	2119.2
45°	5879.3	3277.1	2187.9	2145.3	2195.0	2192.6	2142.9	2097.9	2041.0	1918.0	1922.7
47.5°	5974.1	3293.7	2097.9	2069.5	2121.6	2152.4	2095.5	1991.3	1910.8	1823.2	1801.9
50°	6071.1	3324.5	2055.3	1996.1	2017.4	2090.8	2019.7	1920.3	1842.2	1764.0	1775.8
52.5°	6156.4	3383.7	1972.4	1884.8	1922.7	2003.2	1965.3	1844.5	1759.3	1695.4	1676.4
55°	6535.2	3516.2	1832.7	1719.1	1809.0	1910.8	1889.5	1742.7	1650.4	1617.2	1612.5
56°	6594.4	3521.0	1759.3	1662.2	1745.1	1880.1	1854.0	1697.8	1614.9	1562.8	1565.1
57.5°	6603.9	3464.1	1655.1	1610.2	1681.2	1835.0	1801.9	1662.2	1548.5	1501.2	1487.0
60°	5810.6	2704.1	1524.9	1496.5	1579.3	1697.8	1685.9	1565.1	1437.3	1382.9	1408.9
62.5°	3961.4	1981.9	1423.1	1418.3	1460.9	1577.0	1546.2	1437.3	1330.7	1295.2	1278.6
65°	2306.2	1503.6	1323.6	1304.7	1340.2	1401.7	1423.1	1309.4	1198.1	1174.4	1167.4
67.5°	1361.5	1243.1	1195.8	1164.9	1153.1	1191.0	1207.6	1141.3	1030.0	996.8	1025.3
70°	1139.0	1105.8	1108.2	1056.0	1027.6	1001.6	987.4	928.2	835.9	793.3	781.4
72.5°	982.7	968.4	958.9	911.6	885.6	826.4	764.8	705.6	637.0	601.4	603.8
75°	750.6	745.9	750.6	726.9	681.9	634.5	577.8	502.0	449.9	404.9	414.4
77.5°	447.5	461.7	468.9	459.4	440.4	397.8	362.3	312.6	262.9	227.3	222.6
80°	307.8	319.6	331.5	319.6	300.8	269.9	232.1	194.2	158.6	139.7	135.0
82.5°	234.4	246.3	253.4	241.6	217.8	184.7	158.6	132.6	104.2	85.3	80.5
85°	85.3	97.1	94.7	113.7	123.2	118.4	101.8	78.1	59.2	42.6	40.2
87.5°	23.6	21.3	23.6	23.6	23.6	21.3	18.9	18.9	18.9	11.8	9.5
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)