

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: P647621

Luminaire Tested: **GALN-SA8D-835-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647621
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8D-835-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32348.8 lumens
Efficiency: N/A
Efficacy: 65.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

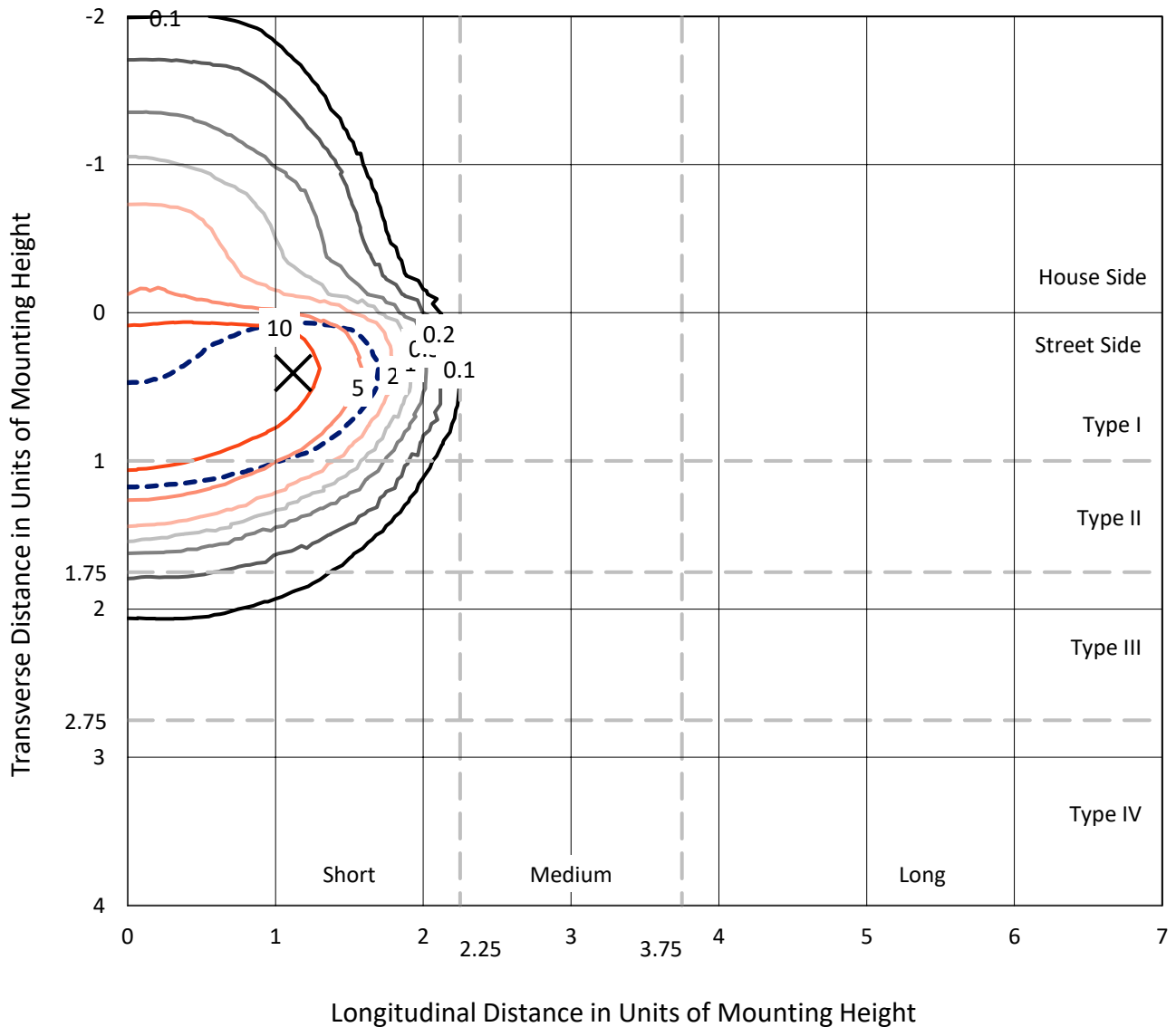
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

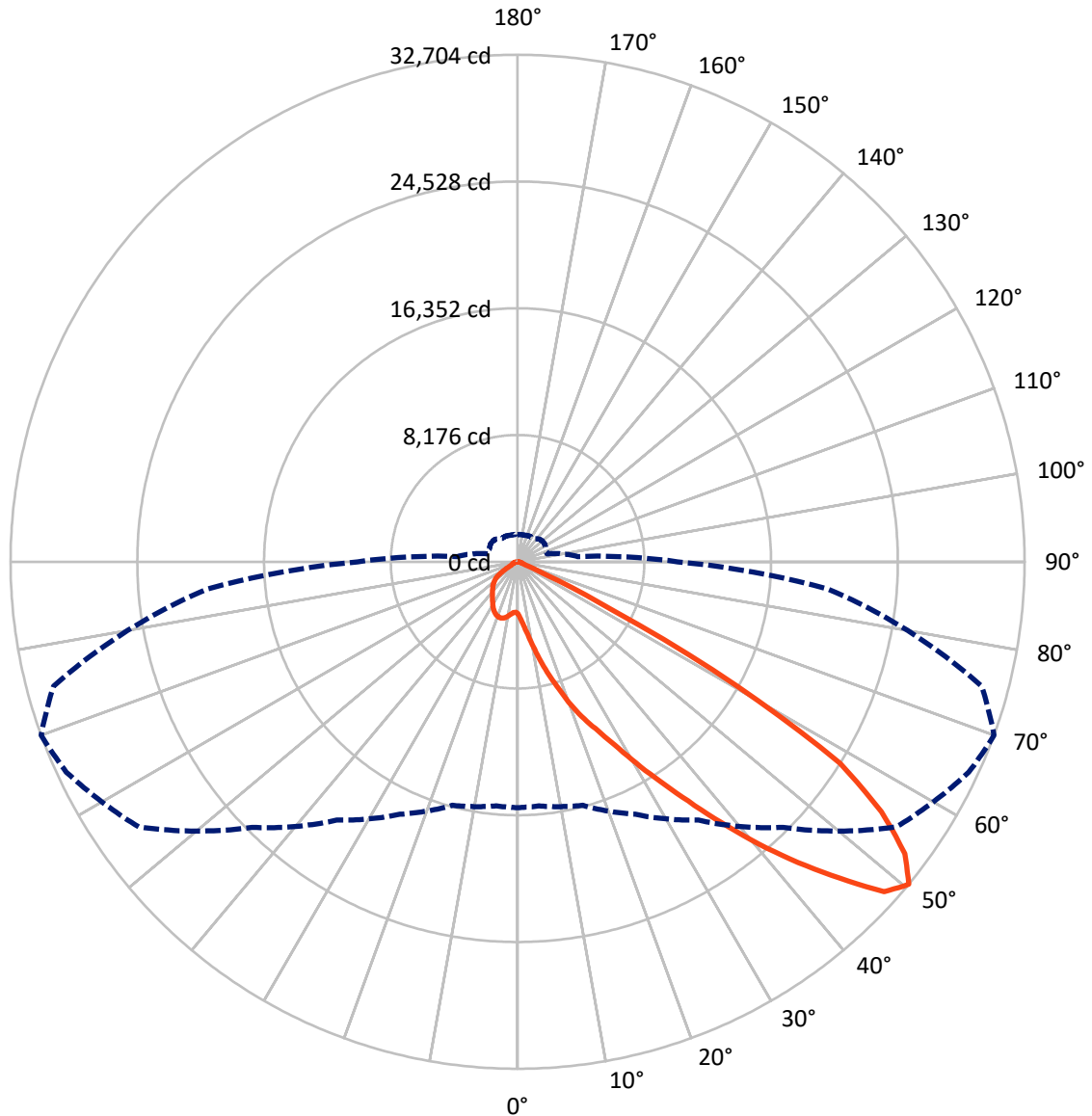
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.2 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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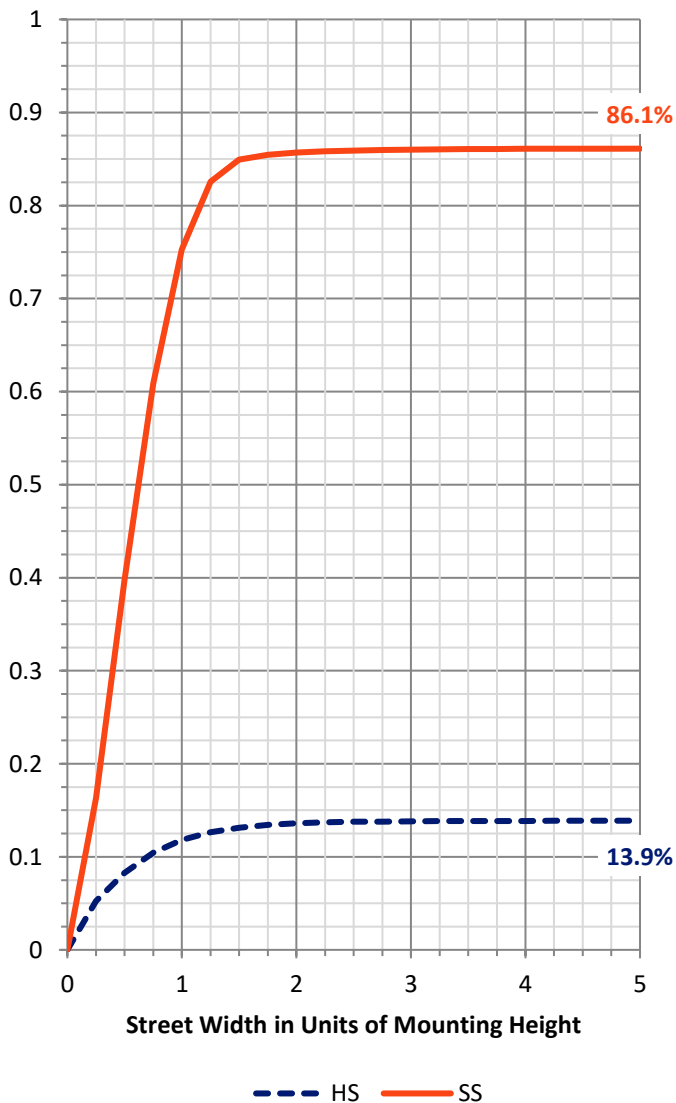
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4517.7	0.0	4517.7
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	27831.1	0.0	27831.1
	% Fixture	86.0	0.0	86.0
Total	Lumens	32348.8	0.0	32348.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	435.7	1.3
10°-20°	1884.7	5.8
20°-30°	3953.9	12.2
30°-40°	6815.2	21.1
40°-50°	9960.3	30.8
50°-60°	7757.4	24.0
60°-70°	1314.3	4.1
70°-80°	180.6	0.6
80°-90°	46.8	0.1
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°	32348.8	100.0
0°-180°	32348.8	100.0

Coefficient of Utilization

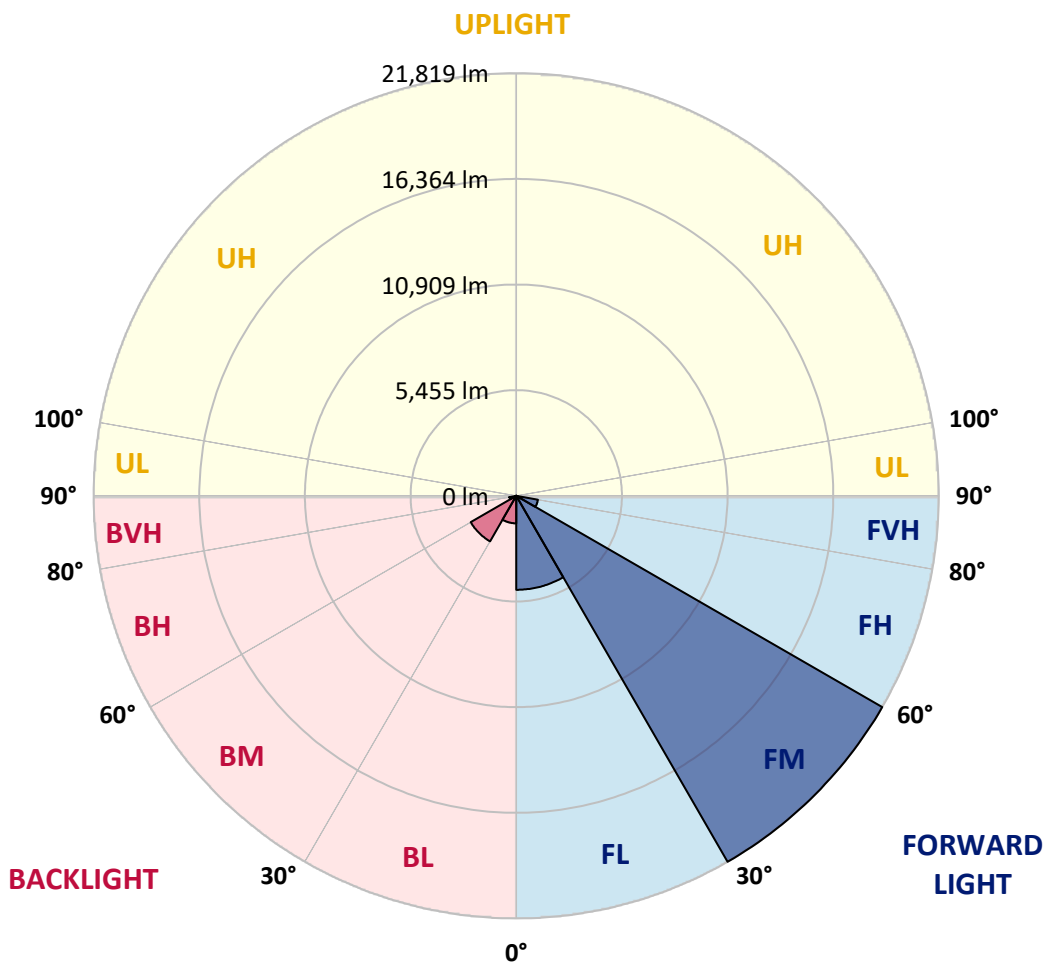


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4852.7	15.0			
FM (30°-60°)	21818.7	67.4			
FH (60°-80°)	1138.0	3.5			G1/1800
FVH (80°-90°)	21.6	0.1			G1/100
BL (0°-30°)	1421.6	4.4	B3/2500		
BM (30°-60°)	2714.1	8.4	B3/5000		
BH (60°-80°)	356.9	1.1	B1/500		G1/500
BVH (80°-90°)	25.1	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1
 Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	3350.7	3350.7	3350.7	3350.7	3350.7	3350.7	3350.7	3350.7	3350.7	3350.7	3350.7
2.5°	4387.9	4355.9	4286.8	4159.1	4106.0	3978.3	3903.8	3760.2	3669.8	3568.8	3457.1
5°	6180.2	6015.3	5914.2	5770.6	5350.5	5089.9	4659.1	4292.1	4121.9	3935.7	3680.5
7.5°	8031.1	7924.7	7786.4	7477.9	7190.7	6648.2	5908.9	5100.5	4754.8	4435.7	3930.4
10°	9562.8	9265.0	9249.0	9020.3	8706.5	8057.6	7169.5	6164.2	5547.2	5079.2	4286.8
12.5°	10631.8	10360.6	10482.9	10456.3	10163.8	9568.1	8541.7	7212.0	6568.4	5839.8	4653.8
15°	11605.2	11493.4	11456.2	11424.3	11307.3	10865.8	9945.7	8488.4	7557.7	6680.2	5068.6
17.5°	12557.1	12270.0	12408.3	12434.8	12424.2	12025.3	11163.7	9701.1	8605.5	7568.3	5504.7
20°	13402.8	13429.4	13243.3	13206.0	13174.1	13158.2	12317.8	10903.1	9892.6	8499.1	6073.8
22.5°	14487.8	14301.7	14466.6	14360.1	14152.7	14025.1	13381.5	11966.8	11009.4	9621.3	6653.5
25°	15769.6	15918.5	15530.3	15487.7	15259.0	14817.6	14237.8	13158.2	12083.8	10663.8	7281.1
27.5°	17349.2	17088.6	16987.6	16753.5	16338.7	16152.5	15471.8	14386.8	13381.5	11759.4	7887.5
30°	18705.5	18636.3	18131.1	17854.4	17492.8	17487.5	16535.5	16051.5	15072.8	13477.3	8722.5
32.5°	19811.7	19508.5	19322.4	19131.0	18838.4	18918.2	18115.1	17859.8	16875.8	15072.8	9706.4
35°	20551.0	20332.9	20221.2	19928.7	19843.6	20200.0	19864.9	19758.5	18950.1	17317.3	10860.5
37.5°	20785.0	20854.2	20832.9	20465.9	20646.7	21609.4	22040.2	21763.6	21338.2	19684.1	12110.4
40°	20992.5	21040.3	20933.9	21364.7	21880.6	22976.3	24534.6	24077.2	23917.7	22082.7	13849.5
42.5°	21109.4	21072.2	21072.2	21816.8	22598.6	24800.5	26943.9	26640.8	26518.4	24635.7	15860.0
45°	20604.2	20242.5	20630.8	21641.3	23215.6	25699.4	28869.3	29289.4	29113.9	27672.6	18210.8
47.5°	18716.0	18939.4	19157.5	20508.4	22465.7	25422.8	30050.0	31480.7	31805.1	30225.5	19753.2
50°	15860.0	15812.1	16264.2	17966.2	20343.6	24231.4	29821.3	32113.6	32704.0	30991.4	20077.6
52.5°	11536.0	11887.0	12376.3	14067.6	16886.5	21146.6	26869.4	30480.8	31267.9	30050.0	19864.9
55°	6717.4	6329.1	7430.0	8860.7	11520.0	15950.4	22715.7	27018.4	28475.7	28337.4	18790.5
57.5°	2691.2	2606.1	2983.7	4020.9	6010.0	9887.3	16519.5	22199.8	24534.6	25954.6	16514.2
60°	1180.7	1154.1	1356.2	1638.1	2457.2	4558.0	9036.3	13807.0	16242.9	18136.4	11365.8
62.5°	851.0	840.3	941.4	1042.4	1297.7	1983.8	3797.5	5563.2	6935.4	8376.8	5089.9
65°	686.1	712.7	781.8	835.0	957.4	1101.0	1340.3	1547.7	1898.7	1967.8	1122.2
67.5°	558.4	579.7	643.5	702.0	723.3	595.7	616.9	542.5	542.5	484.0	388.3
70°	409.5	414.8	489.3	558.4	446.8	239.4	420.2	420.2	377.6	361.7	329.7
72.5°	303.2	308.5	367.0	345.7	175.5	148.9	308.5	340.4	308.5	292.5	265.9
75°	223.4	228.7	191.4	79.8	74.5	95.8	180.8	234.0	223.4	218.1	202.1
77.5°	42.5	31.9	26.6	37.2	53.2	79.8	117.0	143.6	148.9	159.6	148.9
80°	5.3	5.3	16.0	31.9	58.5	85.1	122.3	138.3	143.6	148.9	138.3
82.5°	0.0	5.3	16.0	31.9	58.5	79.8	106.4	122.3	133.0	138.3	133.0
85°	0.0	5.3	10.6	26.6	47.8	58.5	53.2	37.2	31.9	37.2	26.6
87.5°	0.0	0.0	5.3	5.3	10.6	10.6	10.6	10.6	10.6	10.6	10.6
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°	3350.7	3350.7	3350.7	3350.7	3350.7	3350.7	3350.7	3350.7	3350.7	3350.7	3350.7
2.5°	3393.3	3372.0	3297.5	3217.7	3148.6	3180.5	3148.6	3122.0	3132.6	3122.0	3111.4
5°	3579.4	3483.6	3324.1	3255.0	3196.4	3191.1	3175.2	3169.9	3175.2	3175.2	3127.3
7.5°	3755.0	3600.7	3430.5	3356.0	3286.9	3292.2	3255.0	3255.0	3249.7	3223.1	3212.4
10°	4020.9	3813.4	3595.4	3462.4	3377.3	3361.3	3324.1	3286.9	3286.9	3286.9	3233.7
12.5°	4313.4	4052.7	3755.0	3600.7	3499.6	3419.8	3361.3	3350.7	3292.2	3281.6	3255.0
15°	4568.6	4238.9	3861.3	3648.5	3520.9	3414.5	3324.1	3265.6	3239.0	3223.1	3201.8
17.5°	4818.7	4398.5	3919.8	3648.5	3510.3	3388.0	3292.2	3239.0	3175.2	3185.8	3143.3
20°	5153.7	4568.6	3935.7	3579.4	3409.2	3292.2	3164.6	3138.0	3100.8	3068.8	3079.5
22.5°	5478.1	4691.0	3887.9	3494.3	3249.7	3111.4	3047.5	3015.6	2999.7	2973.1	2935.9
25°	5770.6	4824.0	3813.4	3340.0	3079.5	2978.4	2919.9	2914.6	2877.4	2877.4	2808.2
27.5°	6068.5	4871.8	3685.7	3159.2	2930.5	2872.0	2845.4	2834.8	2818.9	2781.6	2733.8
30°	6408.9	4887.8	3499.6	2973.1	2797.6	2733.8	2771.0	2797.6	2728.4	2659.3	2680.6
32.5°	6690.7	4850.5	3276.2	2797.6	2701.8	2670.0	2744.4	2771.0	2691.2	2616.7	2579.5
35°	7031.2	4760.1	3058.2	2659.3	2606.1	2670.0	2733.8	2733.8	2574.2	2483.8	2462.5
37.5°	7547.1	4659.1	2856.1	2542.2	2505.1	2638.0	2723.1	2664.6	2414.6	2303.0	2276.3
40°	8100.2	4595.3	2659.3	2425.3	2451.9	2584.8	2632.7	2451.9	2196.5	2127.4	2106.2
42.5°	8903.3	4467.6	2483.8	2324.3	2404.0	2510.4	2510.4	2185.9	2090.2	2052.9	2047.6
45°	9903.2	4377.2	2329.5	2239.1	2334.8	2361.4	2276.3	2047.6	1978.5	1967.8	1973.2
47.5°	10392.5	4201.7	2170.0	2138.1	2207.2	2212.5	1989.1	1936.0	1877.5	1861.5	1850.9
50°	10318.1	3887.9	1962.6	2005.1	2100.9	2047.6	1813.7	1824.3	1771.1	1765.7	1739.2
52.5°	9796.8	3393.3	1755.1	1856.2	1962.6	1808.3	1670.1	1659.4	1659.4	1590.3	1563.7
55°	8685.3	2733.8	1505.2	1632.8	1760.4	1521.1	1483.9	1473.2	1446.7	1382.9	1366.9
57.5°	6876.9	2005.1	1132.8	1271.1	1494.5	1292.4	1287.1	1239.3	1170.1	1122.2	1122.2
60°	4090.0	1154.1	712.7	776.5	989.2	1047.7	1164.8	1143.5	1026.5	952.0	930.8
62.5°	1866.8	595.7	452.1	462.8	531.9	680.7	914.8	1058.4	893.6	765.9	755.2
65°	627.6	441.5	372.3	356.3	367.0	409.5	547.8	750.0	712.7	590.4	569.1
67.5°	383.0	393.5	351.0	324.4	324.4	319.2	313.8	340.4	420.2	409.5	414.8
70°	329.7	361.7	324.4	292.5	281.9	265.9	223.4	186.1	159.6	186.1	196.8
72.5°	265.9	287.2	276.6	250.0	223.4	202.1	159.6	122.3	90.4	79.8	79.8
75°	196.8	212.7	223.4	191.4	170.2	143.6	117.0	79.8	47.8	31.9	31.9
77.5°	143.6	159.6	164.9	148.9	127.6	101.1	74.5	53.2	26.6	10.6	10.6
80°	122.3	143.6	159.6	148.9	133.0	95.8	69.1	37.2	21.3	5.3	5.3
82.5°	117.0	143.6	159.6	143.6	127.6	90.4	69.1	42.5	16.0	5.3	5.3
85°	26.6	37.2	47.8	58.5	69.1	69.1	53.2	31.9	16.0	5.3	5.3
87.5°	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	5.3	5.3	0.0
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)