

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: P530088

Luminaire Tested: **GALN-SA5B-735-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530088
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-SA5B-735-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 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: 23326 lumens
Efficiency: N/A
Efficacy: 114.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

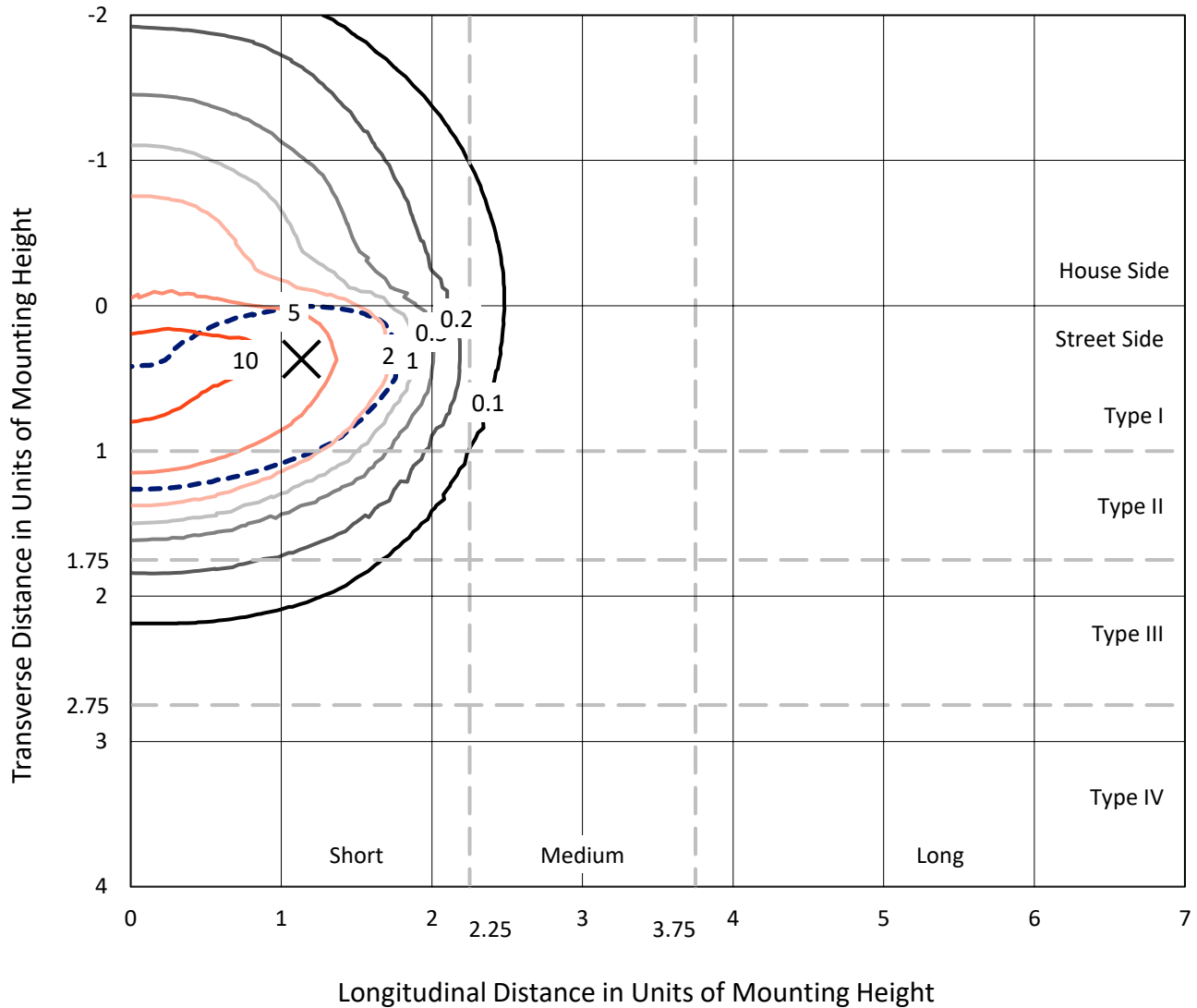
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

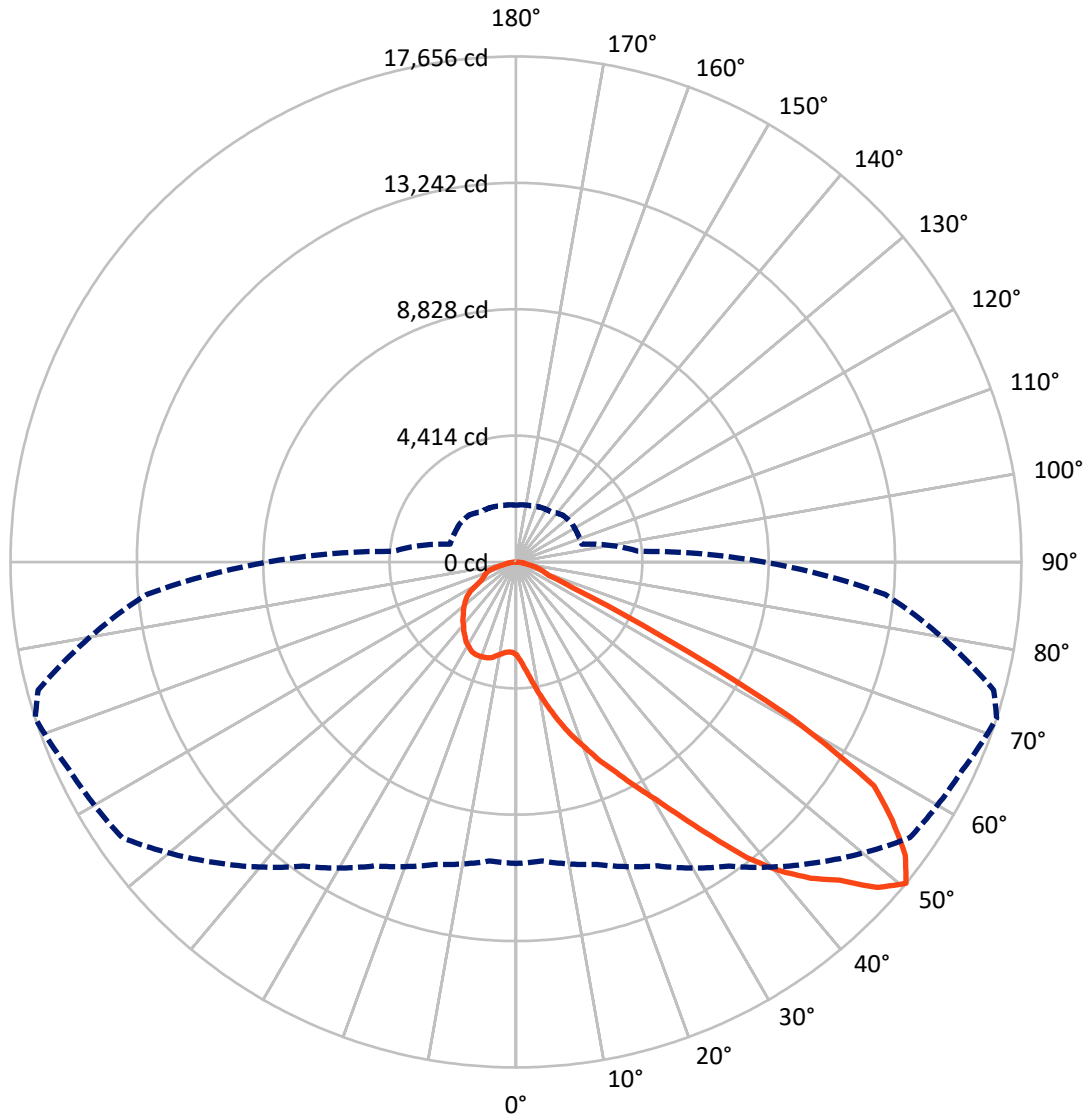
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 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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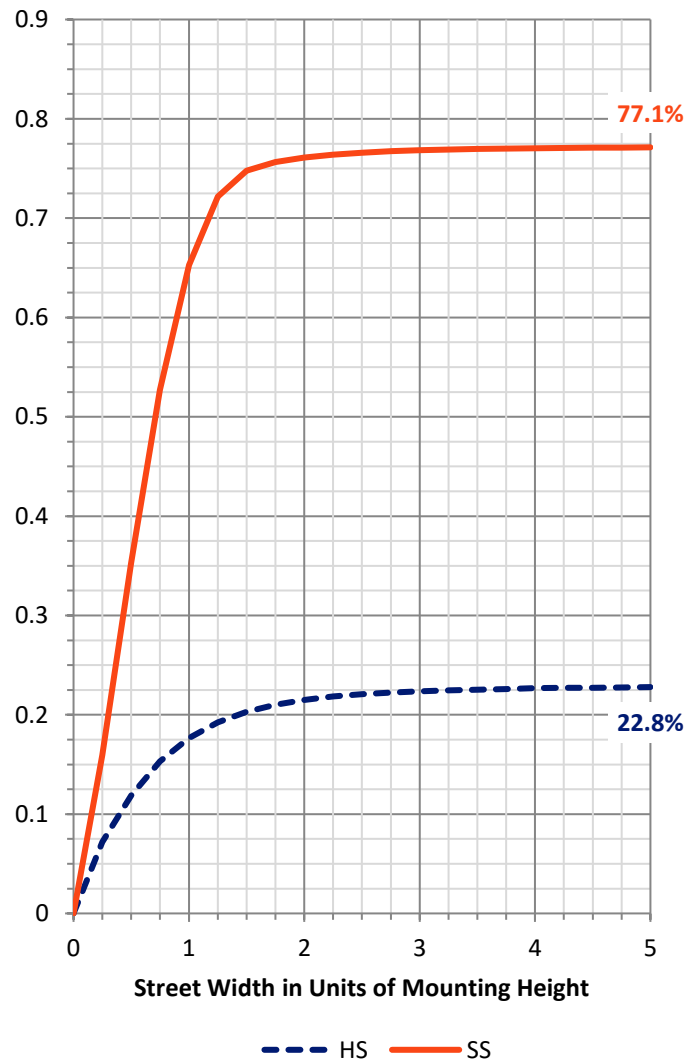
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5344.1	0.0	5344.1
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	17981.9	0.0	17981.9
	% Fixture	77.1	0.0	77.1
Total	Lumens	23326.0	0.0	23326.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	381.9	1.6
10°-20°	1427.9	6.1
20°-30°	2768.5	11.9
30°-40°	4586.5	19.7
40°-50°	6417.5	27.5
50°-60°	5414.0	23.2
60°-70°	1650.2	7.1
70°-80°	578.9	2.5
80°-90°	100.6	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°	23326.0	100.0
0°-180°	23326.0	100.0



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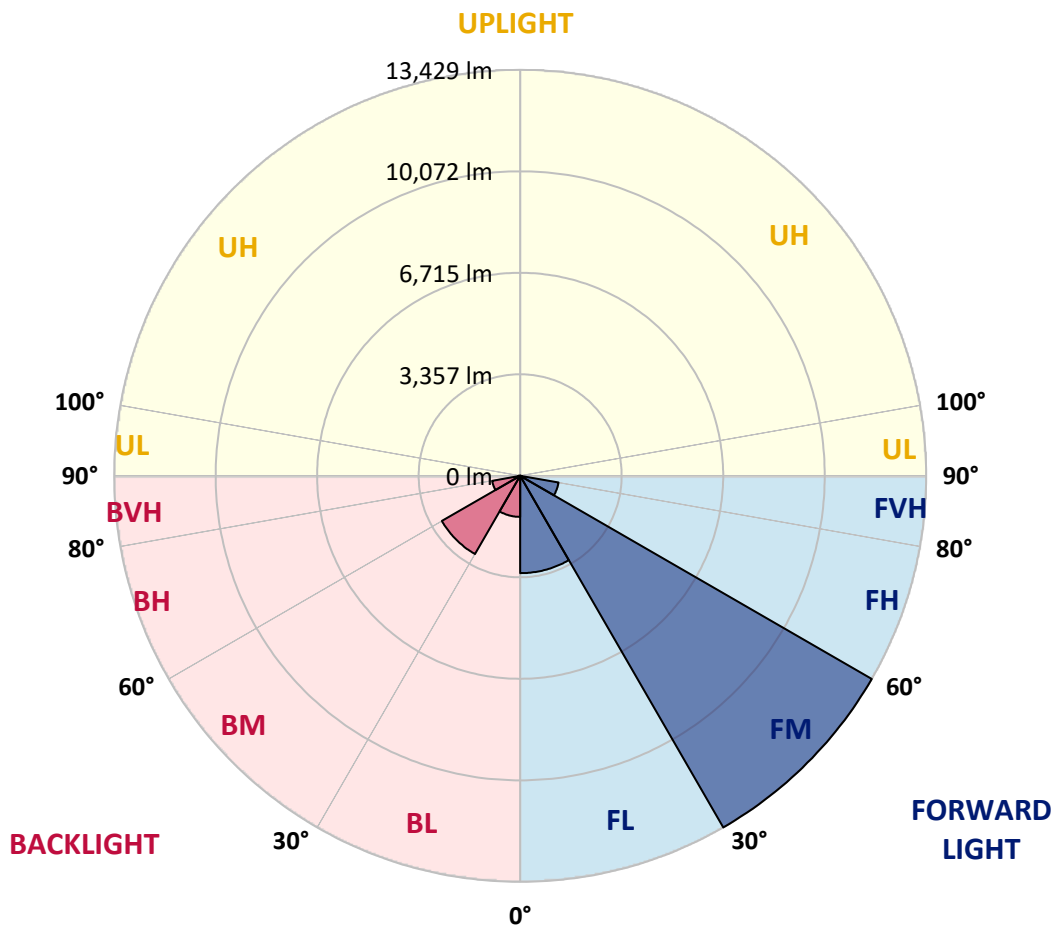
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3219.8	13.8			
FM (30°-60°)	13429.4	57.6			
FH (60°-80°)	1287.6	5.5			G1/1800
FVH (80°-90°)	45.1	0.2			G1/100
BL (0°-30°)	1358.5	5.8	B3/2500		
BM (30°-60°)	2988.5	12.8	B3/5000		
BH (60°-80°)	941.5	4.0	B2/1000		G2/1000
BVH (80°-90°)	55.6	0.2			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°	72°	75°	85°
0°	3247.2	3247.2	3247.2	3247.2	3247.2	3247.2	3247.2	3247.2	3247.2	3247.2	3247.2
2.5°	4176.6	4150.6	4072.7	4046.7	3954.3	3786.9	3729.2	3558.9	3486.7	3420.4	3342.4
5°	5282.1	5160.8	5152.2	5005.0	4791.4	4667.3	4297.8	4049.6	3821.6	3706.1	3492.5
7.5°	5986.4	5989.2	5989.2	5868.0	5697.7	5383.1	5051.2	4603.8	4260.3	4090.0	3726.3
10°	6656.0	6598.3	6566.5	6555.0	6439.5	6133.6	5778.5	5224.3	4753.9	4554.7	3902.4
12.5°	7129.4	7080.3	7152.5	7114.9	7031.2	6832.1	6497.2	5865.1	5276.3	5007.9	4185.3
15°	7354.5	7389.1	7446.9	7550.8	7513.2	7438.2	7068.7	6523.2	5839.1	5536.1	4436.4
17.5°	7700.9	7605.6	7674.9	7804.8	7908.7	7874.0	7663.3	6999.5	6396.2	6023.9	4774.1
20°	7943.3	7888.5	7923.1	8073.2	8151.1	8347.4	8237.7	7622.9	6930.2	6537.7	5172.4
22.5°	8636.1	8555.2	8442.7	8465.8	8494.6	8633.2	8659.1	8307.0	7550.8	7135.1	5550.5
25°	9490.4	9415.4	9282.6	9146.9	9063.2	9037.3	9126.7	8843.9	8145.4	7715.3	5957.5
27.5°	10431.4	10304.4	10220.7	9940.7	9715.6	9680.9	9637.6	9484.6	8849.6	8384.9	6416.4
30°	11346.4	11245.3	11132.8	10685.4	10451.6	10414.1	10200.5	10243.8	9614.5	9097.9	6936.0
32.5°	12039.1	12047.8	11790.9	11453.2	11233.8	11034.6	10956.7	11080.8	10595.9	10180.3	7516.1
35°	12599.1	12625.0	12379.7	12073.7	11837.0	11975.6	11941.0	11998.7	11767.8	11259.8	8191.5
37.5°	13144.6	13014.7	12752.0	12604.8	12480.7	12708.7	13003.1	13052.2	13095.5	12498.0	8976.6
40°	13234.1	13245.6	13092.6	13196.5	13040.7	13384.1	14068.2	14004.7	14180.8	13658.4	9828.1
42.5°	13107.1	13133.0	13193.6	13340.9	13716.1	14128.8	15144.8	14885.1	15098.7	14633.9	10656.5
45°	12899.2	12792.4	12867.5	13427.4	14076.9	14994.7	16129.1	15927.0	15857.8	15468.1	11643.7
47.5°	11906.3	12016.0	12249.8	12939.6	13915.2	15144.8	16827.6	16781.4	16989.2	16715.0	12541.3
50°	10529.5	10486.2	10936.5	11712.9	12971.4	14850.4	16790.1	17208.6	17656.0	17275.0	12942.5
52.5°	7885.6	8116.5	8503.3	9467.3	11262.7	13245.6	15970.3	16668.8	17032.5	16951.7	12619.3
55°	4984.8	5054.1	5287.8	6433.7	8050.1	10630.5	13690.1	15309.4	15958.8	16261.9	12322.0
57.5°	2421.7	2291.8	2577.5	3498.3	4650.0	7149.6	10558.4	13335.1	14746.5	15294.9	11675.4
60°	1264.2	1313.3	1425.9	1754.9	2404.4	3711.9	6580.9	8887.2	11043.3	11886.1	8849.6
62.5°	1047.8	1065.1	1140.1	1304.6	1599.1	2135.9	3359.7	4332.5	5631.3	6390.4	5033.8
65°	889.0	897.7	978.5	1088.2	1275.8	1503.8	1728.9	1809.8	2190.8	2248.5	1789.6
67.5°	741.8	750.5	837.1	941.0	1062.2	1122.8	1180.5	1174.8	1218.1	1200.7	1197.8
70°	571.5	580.2	669.6	779.3	839.9	805.3	984.3	1024.7	1042.0	1056.4	1079.5
72.5°	412.8	430.1	499.3	577.3	545.5	626.3	811.1	871.7	894.8	903.4	932.3
75°	300.2	306.0	323.3	300.2	346.4	435.8	571.5	646.5	675.4	684.1	727.4
77.5°	132.8	135.7	138.5	173.2	222.3	271.3	340.6	401.2	441.6	453.2	464.7
80°	69.3	72.2	89.5	118.3	158.8	199.2	248.2	282.9	308.8	311.7	323.3
82.5°	43.3	46.2	63.5	83.7	112.6	147.2	181.8	210.7	230.9	233.8	236.7
85°	20.2	26.0	37.5	52.0	75.0	95.3	98.1	83.7	89.5	92.4	86.6
87.5°	5.8	8.7	11.5	8.7	11.5	11.5	14.4	17.3	17.3	17.3	20.2
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°	3247.2	3247.2	3247.2	3247.2	3247.2	3247.2	3247.2	3247.2	3247.2	3247.2	3247.2
2.5°	3299.1	3273.2	3172.1	3134.6	3036.5	3053.8	3001.8	2998.9	2987.4	2984.5	2981.6
5°	3380.0	3299.1	3177.9	3085.5	3030.7	3024.9	2987.4	2987.4	2998.9	3007.6	2987.4
7.5°	3512.7	3420.4	3215.4	3128.8	3079.8	3071.1	3045.1	3024.9	3050.9	3042.2	3019.2
10°	3665.7	3504.1	3287.6	3212.5	3131.7	3111.5	3111.5	3120.2	3076.9	3091.3	3068.2
12.5°	3836.0	3619.5	3380.0	3293.4	3198.1	3186.6	3180.8	3117.3	3140.4	3128.8	3071.1
15°	4052.5	3752.3	3498.3	3351.1	3270.3	3218.3	3143.3	3131.7	3117.3	3088.4	3062.4
17.5°	4286.3	3896.6	3553.1	3368.4	3247.2	3209.7	3151.9	3091.3	3048.0	3053.8	3033.6
20°	4485.4	4029.4	3573.3	3385.7	3229.9	3157.7	3068.2	3030.7	2984.5	2981.6	2978.7
22.5°	4722.1	4208.3	3602.2	3339.5	3177.9	3102.9	3042.2	2975.9	2944.1	2903.7	2923.9
25°	5005.0	4277.6	3608.0	3313.6	3140.4	3007.6	2975.9	2903.7	2892.2	2834.4	2846.0
27.5°	5209.9	4315.1	3561.8	3232.7	3053.8	2952.8	2895.0	2843.1	2822.9	2779.6	2768.0
30°	5484.1	4372.9	3463.7	3131.7	2967.2	2854.6	2820.0	2808.4	2750.7	2704.5	2698.8
32.5°	5795.9	4410.4	3400.2	3027.8	2877.7	2791.1	2808.4	2753.6	2681.4	2641.0	2629.5
35°	6044.1	4424.8	3241.4	2909.5	2817.1	2762.3	2742.1	2730.5	2626.6	2589.1	2560.2
37.5°	6422.2	4393.1	3108.6	2825.8	2750.7	2730.5	2713.2	2635.3	2516.9	2462.1	2421.7
40°	6863.8	4384.4	2938.3	2707.4	2687.2	2710.3	2658.4	2537.1	2372.6	2312.0	2283.1
42.5°	7288.1	4445.0	2831.5	2643.9	2617.9	2626.6	2554.4	2372.6	2291.8	2257.1	2211.0
45°	7998.2	4572.0	2655.5	2545.8	2534.2	2528.5	2441.9	2251.4	2205.2	2161.9	2153.2
47.5°	8638.9	4488.3	2542.9	2444.8	2456.3	2424.6	2239.8	2179.2	2127.3	2084.0	2069.5
50°	8676.5	4289.2	2384.2	2366.8	2369.7	2314.9	2138.8	2098.4	2032.0	2003.1	1982.9
52.5°	8480.2	3963.0	2236.9	2242.7	2251.4	2161.9	2014.7	1985.8	1931.0	1890.6	1879.0
55°	7928.9	3455.0	2092.6	2115.7	2138.8	1968.5	1922.3	1850.2	1806.9	1749.1	1752.0
57.5°	6985.0	2782.5	1890.6	1928.1	1977.2	1789.6	1754.9	1665.4	1601.9	1555.8	1550.0
60°	4681.7	1980.1	1587.5	1601.9	1711.6	1636.6	1633.7	1544.2	1457.6	1417.2	1394.1
62.5°	2762.3	1512.5	1371.0	1356.6	1353.7	1397.0	1469.2	1437.4	1324.8	1246.9	1270.0
65°	1446.1	1307.5	1275.8	1226.7	1197.8	1186.3	1241.1	1255.6	1180.5	1096.8	1091.1
67.5°	1215.2	1215.2	1189.2	1171.9	1131.5	1082.4	1047.8	1001.6	990.0	966.9	938.1
70°	1105.5	1134.3	1125.7	1085.3	1050.6	995.8	906.3	831.3	759.1	733.1	750.5
72.5°	964.1	992.9	992.9	972.7	926.5	842.8	756.2	669.6	609.0	562.8	557.1
75°	741.8	756.2	790.9	767.8	707.2	655.2	565.7	476.3	418.5	375.2	366.6
77.5°	473.4	496.5	496.5	493.6	450.3	401.2	343.5	280.0	236.7	204.9	196.3
80°	314.6	329.0	340.6	329.0	300.2	262.7	219.4	176.1	144.3	118.3	112.6
82.5°	230.9	248.2	256.9	245.3	216.5	187.6	155.9	124.1	92.4	72.2	66.4
85°	89.5	92.4	103.9	124.1	121.2	118.3	95.3	69.3	52.0	37.5	34.6
87.5°	23.1	20.2	23.1	23.1	20.2	17.3	17.3	17.3	17.3	8.7	11.5
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)