

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: P530089

Luminaire Tested: **GALN-SA5B-735-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530089
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
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-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15852 lumens
Efficiency: N/A
Efficacy: 77.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

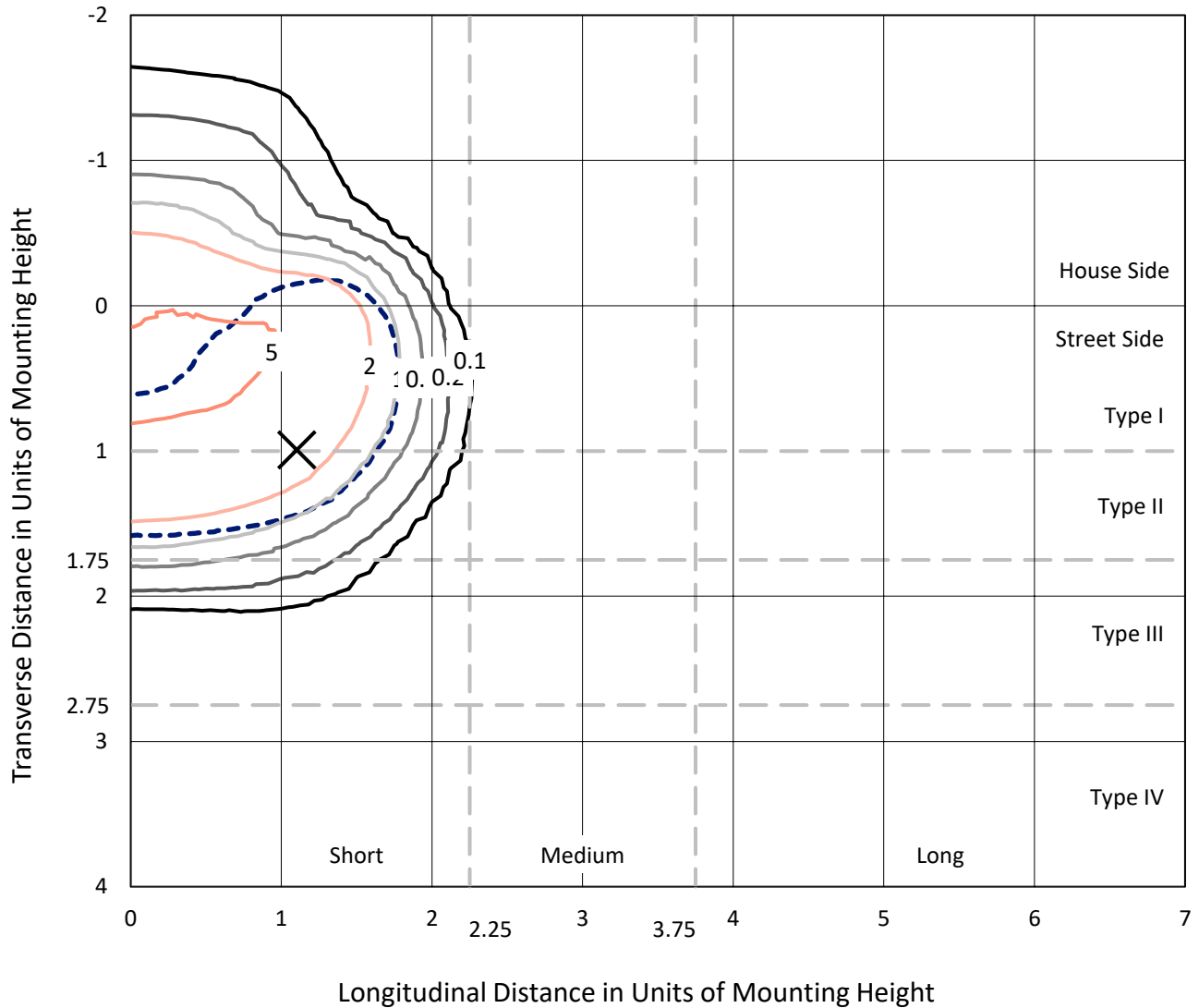
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

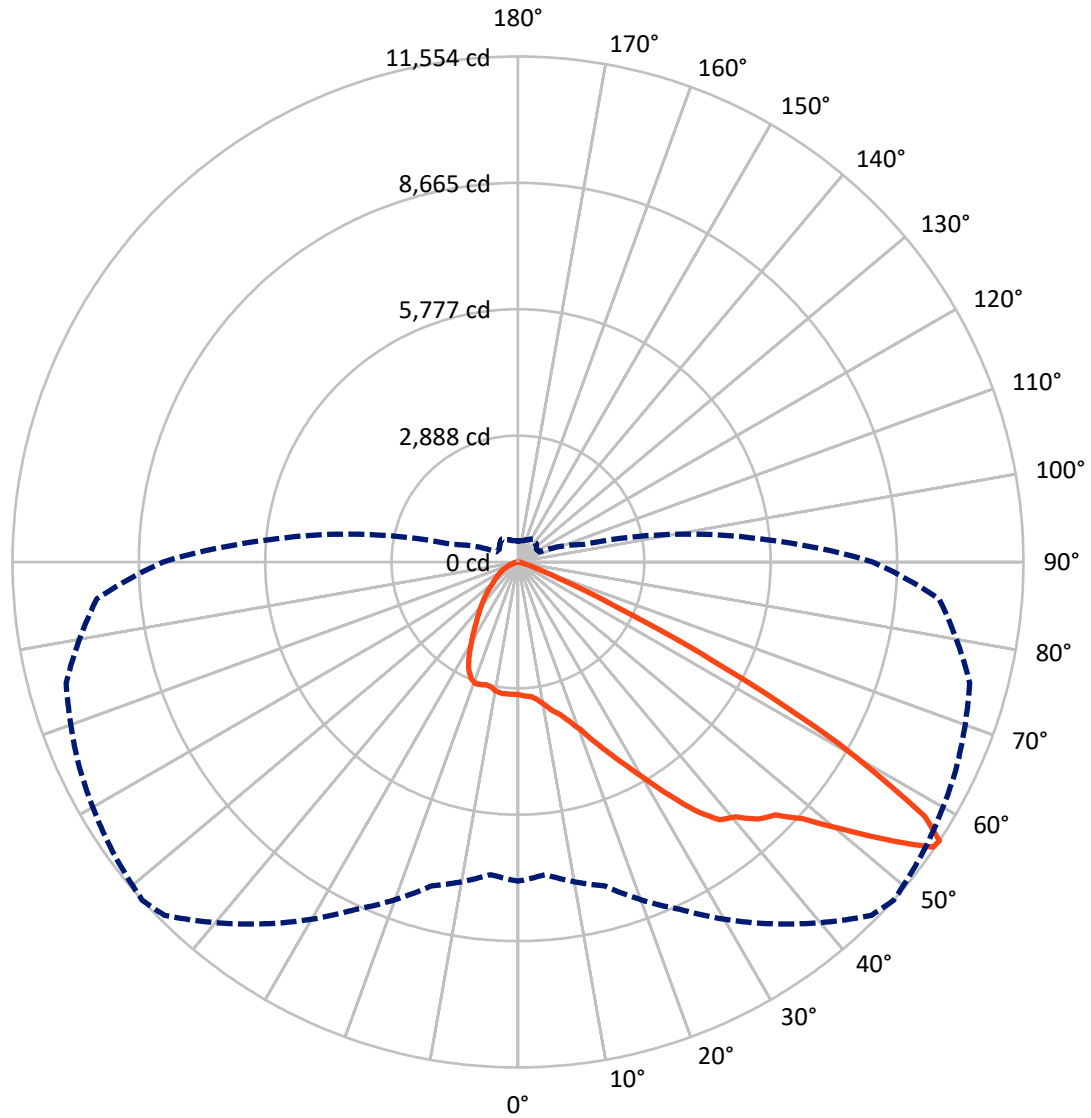
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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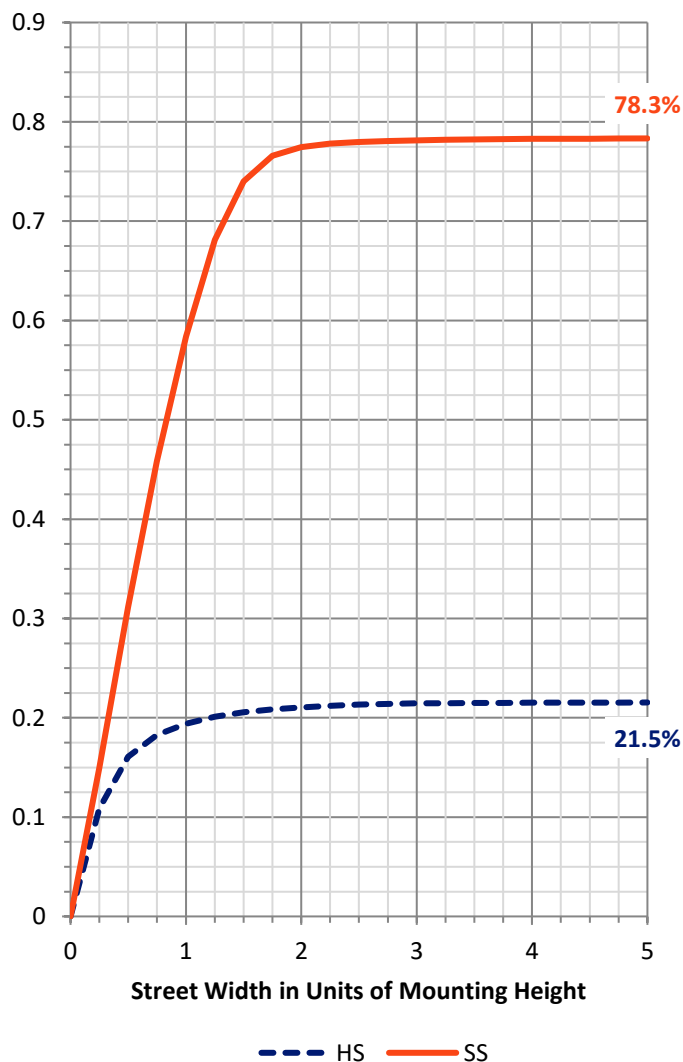
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3447.5	0.0	3447.5
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	12404.5	0.0	12404.5
	% Fixture	78.3	0.0	78.3
Total	Lumens	15852.0	0.0	15852.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	294.9	1.9
10°-20°	942.6	5.9
20°-30°	1709.6	10.8
30°-40°	2685.5	16.9
40°-50°	3917.6	24.7
50°-60°	4720.0	29.8
60°-70°	1382.0	8.7
70°-80°	175.3	1.1
80°-90°	24.6	0.2
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°	15852.0	100.0
0°-180°	15852.0	100.0

Coefficient of Utilization

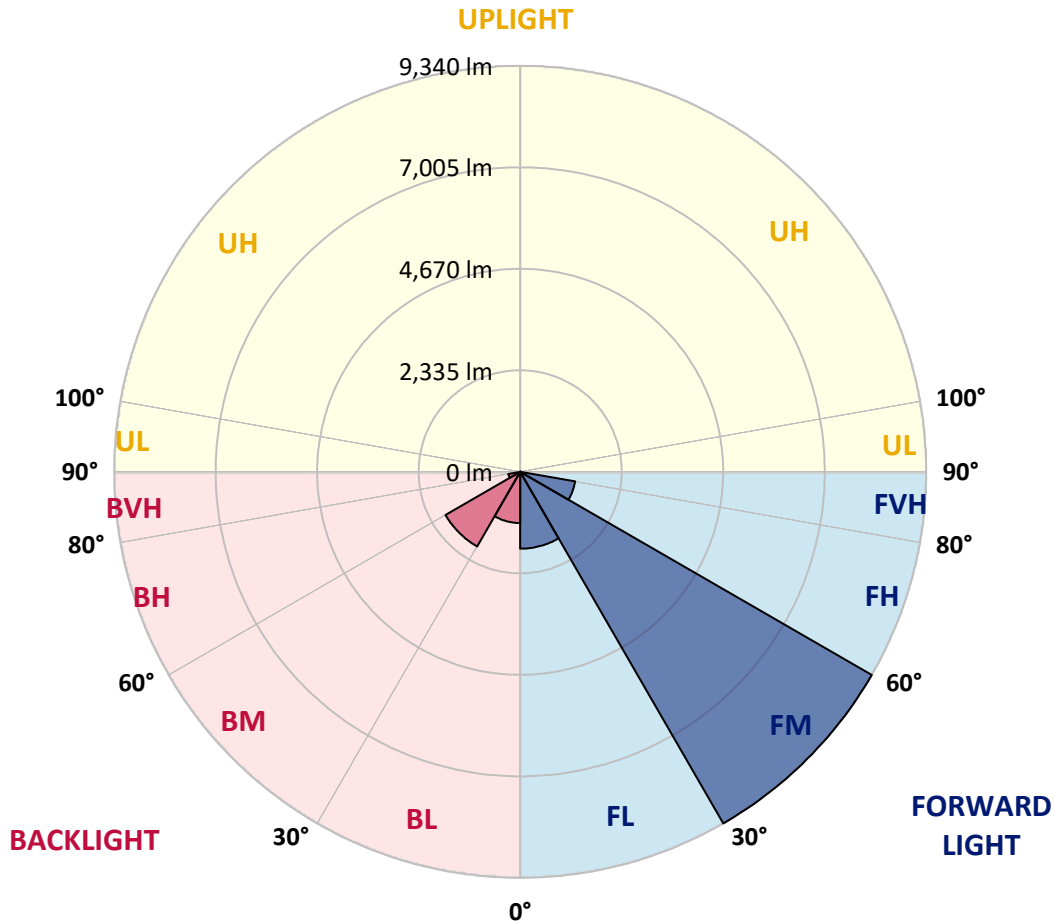


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1768.8	11.2			
FM (30°-60°)	9340.0	58.9			
FH (60°-80°)	1283.3	8.1			G1/1800
FVH (80°-90°)	12.3	0.1			G1/100
BL (0°-30°)	1178.3	7.4	B3/2500		
BM (30°-60°)	1983.0	12.5	B2/2500		
BH (60°-80°)	273.9	1.7	B1/500		G1/500
BVH (80°-90°)	12.2	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	3027.7	3027.7	3027.7	3027.7	3027.7	3027.7	3027.7	3027.7	3027.7	3027.7	3027.7
2.5°	3082.6	3068.1	3068.1	3045.1	3071.0	3059.5	3068.1	3039.3	3068.1	3024.9	3059.5
5°	3097.0	3099.9	3088.4	3102.8	3102.8	3120.1	3091.2	3117.2	3131.6	3099.9	3085.5
7.5°	3172.1	3177.8	3174.9	3163.4	3186.5	3183.6	3180.7	3160.5	3166.3	3154.7	3137.4
10°	3319.3	3316.4	3330.8	3301.9	3284.6	3304.8	3310.6	3278.8	3255.8	3247.1	3192.3
12.5°	3532.8	3498.2	3478.0	3449.1	3457.8	3428.9	3480.9	3426.0	3414.5	3362.6	3307.7
15°	3706.0	3700.2	3703.1	3657.0	3605.0	3616.5	3616.5	3587.7	3570.4	3506.9	3428.9
17.5°	4061.0	3939.8	3965.8	3908.1	3864.8	3861.9	3835.9	3841.7	3795.5	3662.7	3544.4
20°	4338.1	4286.2	4245.8	4147.6	4081.2	4101.4	4089.9	4061.0	4046.6	3873.4	3706.0
22.5°	4586.3	4603.7	4537.3	4511.3	4418.9	4427.6	4450.7	4424.7	4315.0	4136.1	3887.9
25°	4935.6	4915.4	4825.9	4794.2	4707.6	4739.3	4828.8	4808.6	4739.3	4416.1	4029.3
27.5°	5348.3	5279.1	5296.4	5152.1	5068.4	5157.8	5264.6	5365.6	5169.4	4745.1	4196.7
30°	5639.8	5567.7	5561.9	5556.1	5535.9	5639.8	5764.0	5856.3	5697.6	5074.1	4473.8
32.5°	5784.2	5801.5	5850.5	5833.2	6009.3	6222.9	6352.8	6485.5	6286.4	5611.0	4840.3
35°	6168.0	6058.4	6168.0	6179.6	6361.4	6814.6	6979.1	7296.6	7247.5	6370.1	5287.7
37.5°	6393.2	6384.5	6398.9	6508.6	6684.7	7244.6	7478.4	7723.8	7631.4	6826.1	5844.8
40°	6765.5	6788.6	6785.7	6869.4	7062.8	7567.9	7663.2	7862.3	7871.0	7458.2	6664.5
42.5°	7363.0	7270.6	7210.0	7296.6	7567.9	7847.9	8038.4	7998.0	8283.7	8226.0	7718.0
45°	7899.8	7954.7	7865.2	8009.5	8107.6	8257.7	8252.0	8338.5	8702.2	8976.4	8511.7
47.5°	8402.0	8436.7	8480.0	8578.1	8791.7	8814.8	8765.7	8728.2	9230.4	9513.3	9126.5
50°	8702.2	8734.0	8936.0	9112.1	9510.4	9562.3	9591.2	9496.0	9836.5	9868.3	9706.7
52.5°	8621.4	8656.0	8938.9	9519.0	10154.0	10630.3	10543.7	10382.1	10361.9	10486.0	10243.5
55°	7905.6	7873.9	8263.5	9166.9	10356.1	11499.1	11510.6	11340.3	11014.2	10930.5	10162.7
56°	7296.6	7172.5	7668.9	8759.9	10096.3	11424.0	11553.9	11372.1	11066.1	10690.9	9663.4
57.5°	5977.5	6095.9	6589.4	7492.9	9198.7	10884.3	10959.3	10916.0	10685.1	10055.9	8503.1
60°	3296.2	3504.0	3939.8	5045.3	6549.0	8353.0	8413.6	8765.7	8809.0	7700.7	5850.5
62.5°	1399.9	1376.8	1829.9	2643.9	3729.1	5042.4	5154.9	5515.7	5582.1	4439.1	2935.4
65°	568.6	600.4	828.4	1330.6	1971.3	2297.5	2456.2	2574.6	2793.9	1832.8	1082.4
67.5°	375.2	372.3	487.8	759.1	1062.2	1024.6	1024.6	1082.4	1001.5	747.6	467.6
70°	268.4	277.1	349.2	525.3	661.0	490.7	470.5	450.3	510.9	493.6	378.1
72.5°	176.1	187.6	233.8	314.6	343.5	268.4	268.4	323.3	421.4	398.3	308.8
75°	115.5	118.3	144.3	181.8	170.3	138.5	153.0	216.5	305.9	294.4	219.4
77.5°	77.9	80.8	98.1	118.3	95.2	77.9	83.7	109.7	150.1	150.1	115.5
80°	28.9	31.7	40.4	37.5	43.3	54.8	60.6	75.0	89.5	89.5	77.9
82.5°	0.0	2.9	8.7	20.2	31.7	43.3	49.1	57.7	66.4	75.0	72.2
85°	0.0	2.9	8.7	14.4	23.1	26.0	28.9	20.2	17.3	17.3	14.4
87.5°	0.0	0.0	2.9	2.9	2.9	2.9	2.9	2.9	5.8	2.9	2.9
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°	3027.7	3027.7	3027.7	3027.7	3027.7	3027.7	3027.7	3027.7	3027.7	3027.7	3027.7
2.5°	3027.7	3024.9	3024.9	3016.2	3033.5	3024.9	3030.6	3027.7	2990.2	3019.1	2998.9
5°	3059.5	3079.7	3047.9	3042.2	3019.1	3027.7	3027.7	2998.9	3024.9	3022.0	3016.2
7.5°	3140.3	3105.7	3071.0	3036.4	3030.6	3022.0	2990.2	2978.7	2998.9	2975.8	3010.4
10°	3174.9	3180.7	3128.8	3082.6	3039.3	2978.7	2935.4	2909.4	2877.7	2912.3	2932.5
12.5°	3333.7	3276.0	3186.5	3114.3	2967.1	2906.5	2863.2	2851.7	2906.5	2918.1	2897.9
15°	3388.5	3379.9	3264.4	3102.8	2949.8	2877.7	2886.3	2863.2	2869.0	2840.1	2845.9
17.5°	3501.1	3403.0	3267.3	3065.3	2946.9	2929.6	2877.7	2785.3	2733.3	2710.2	2730.4
20°	3625.2	3530.0	3333.7	3079.7	2972.9	2926.7	2756.4	2643.9	2537.1	2479.3	2482.2
22.5°	3734.9	3616.5	3304.8	3085.5	2996.0	2805.5	2600.6	2378.3	2245.5	2156.1	2159.0
25°	3867.7	3700.2	3316.4	3097.0	2935.4	2612.1	2317.7	2101.2	1942.5	1881.9	1902.1
27.5°	3942.7	3752.2	3379.9	3123.0	2776.6	2337.9	2020.4	1818.4	1726.0	1697.2	1694.3
30°	4167.8	3867.7	3457.8	3071.0	2511.1	2043.5	1749.1	1625.0	1535.5	1509.5	1515.3
32.5°	4502.6	4078.4	3558.8	2935.4	2239.8	1780.9	1573.0	1480.7	1397.0	1347.9	1342.1
35°	4782.6	4439.1	3665.6	2724.7	1925.2	1578.8	1448.9	1333.5	1206.5	1151.6	1137.2
37.5°	5316.6	4846.1	3642.5	2407.2	1625.0	1428.7	1316.2	1174.7	1065.0	990.0	981.3
40°	6026.6	5322.4	3530.0	2020.4	1402.7	1296.0	1174.7	1039.1	903.4	839.9	834.1
42.5°	6889.6	5905.4	3325.0	1627.9	1180.5	1163.2	1053.5	897.6	776.4	730.2	733.1
45°	7591.0	6404.7	3117.2	1307.5	1016.0	1033.3	938.1	790.8	707.1	669.6	669.6
47.5°	8214.4	6742.4	2892.1	1079.5	863.0	903.4	819.7	733.1	661.0	632.1	626.3
50°	8814.8	7085.9	2667.0	874.6	736.0	776.4	767.8	698.5	640.8	606.1	609.0
52.5°	9190.0	7140.7	2381.2	715.8	643.6	689.8	718.7	655.2	591.7	571.5	565.7
55°	8731.1	6433.6	1847.2	588.8	545.5	606.1	661.0	588.8	539.7	505.1	502.2
56°	8113.4	5752.4	1544.2	542.6	516.6	583.0	640.8	562.8	508.0	487.8	473.4
57.5°	6869.4	4707.6	1140.1	482.0	479.1	542.6	609.0	536.9	473.4	456.0	456.0
60°	4283.3	2649.6	689.8	404.1	415.6	482.0	548.4	479.1	421.4	421.4	430.1
62.5°	1951.1	1102.6	418.5	343.5	357.9	415.6	487.8	432.9	401.2	432.9	438.7
65°	663.9	476.2	303.1	274.2	282.9	343.5	418.5	438.7	435.8	456.0	467.6
67.5°	372.3	305.9	254.0	228.0	222.2	254.0	343.5	438.7	421.4	412.7	418.5
70°	314.6	259.8	225.1	202.0	193.4	204.9	265.5	331.9	297.3	288.6	282.9
72.5°	254.0	216.5	196.3	181.8	155.9	132.8	121.2	127.0	141.4	150.1	164.5
75°	179.0	164.5	164.5	147.2	112.6	83.7	66.4	54.8	37.5	26.0	28.9
77.5°	101.0	101.0	103.9	89.5	72.2	54.8	40.4	28.9	14.4	5.8	2.9
80°	69.3	75.0	80.8	72.2	60.6	49.1	34.6	20.2	8.7	0.0	0.0
82.5°	69.3	77.9	83.7	72.2	60.6	46.2	34.6	20.2	8.7	2.9	0.0
85°	14.4	17.3	20.2	23.1	34.6	34.6	26.0	17.3	8.7	2.9	0.0
87.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	0.0	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)