

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: P941617

Luminaire Tested: **GALN-SB5B-727-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941617
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5B-727-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26401 lumens
Efficiency: N/A
Efficacy: 144.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 182.7
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

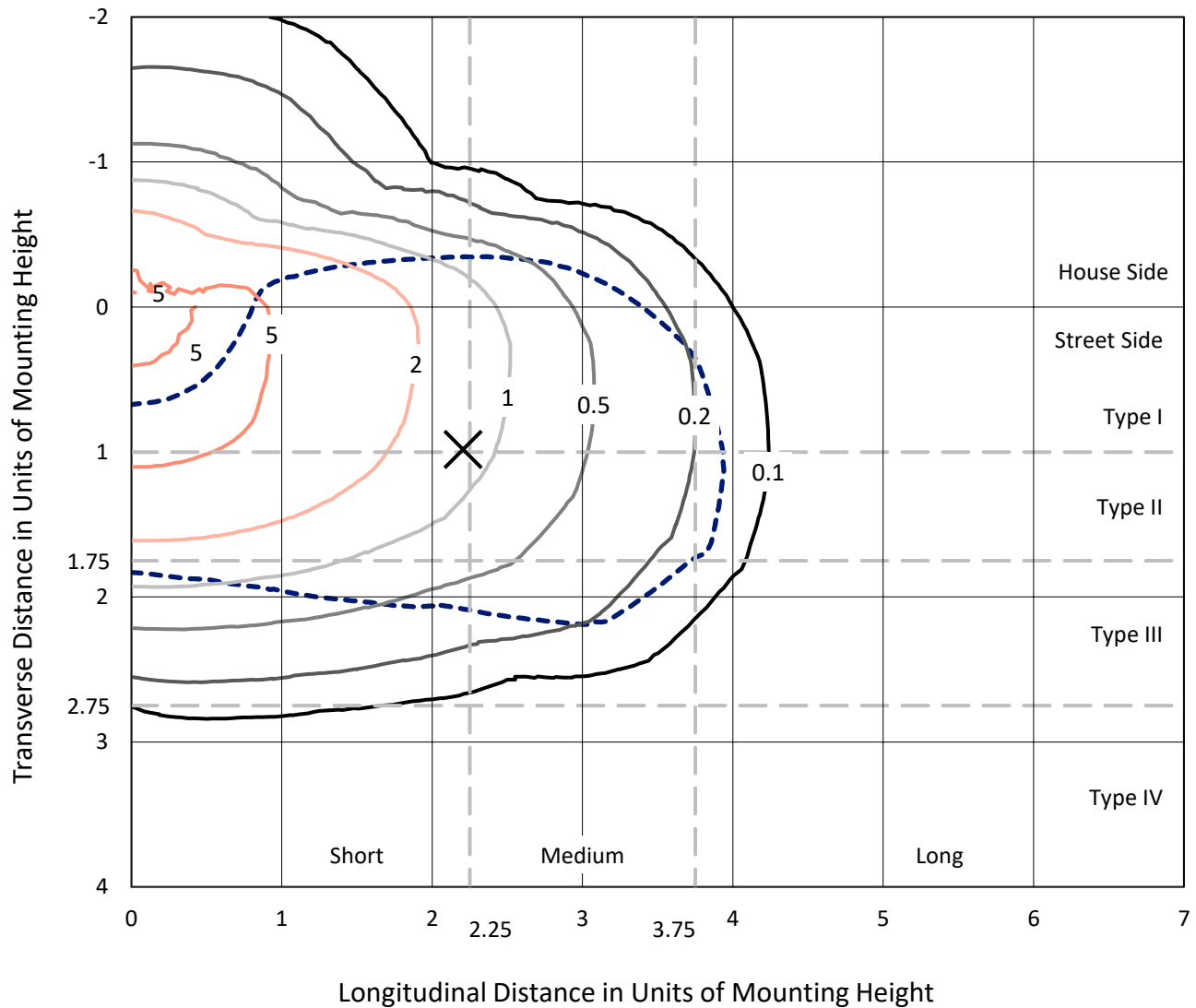


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

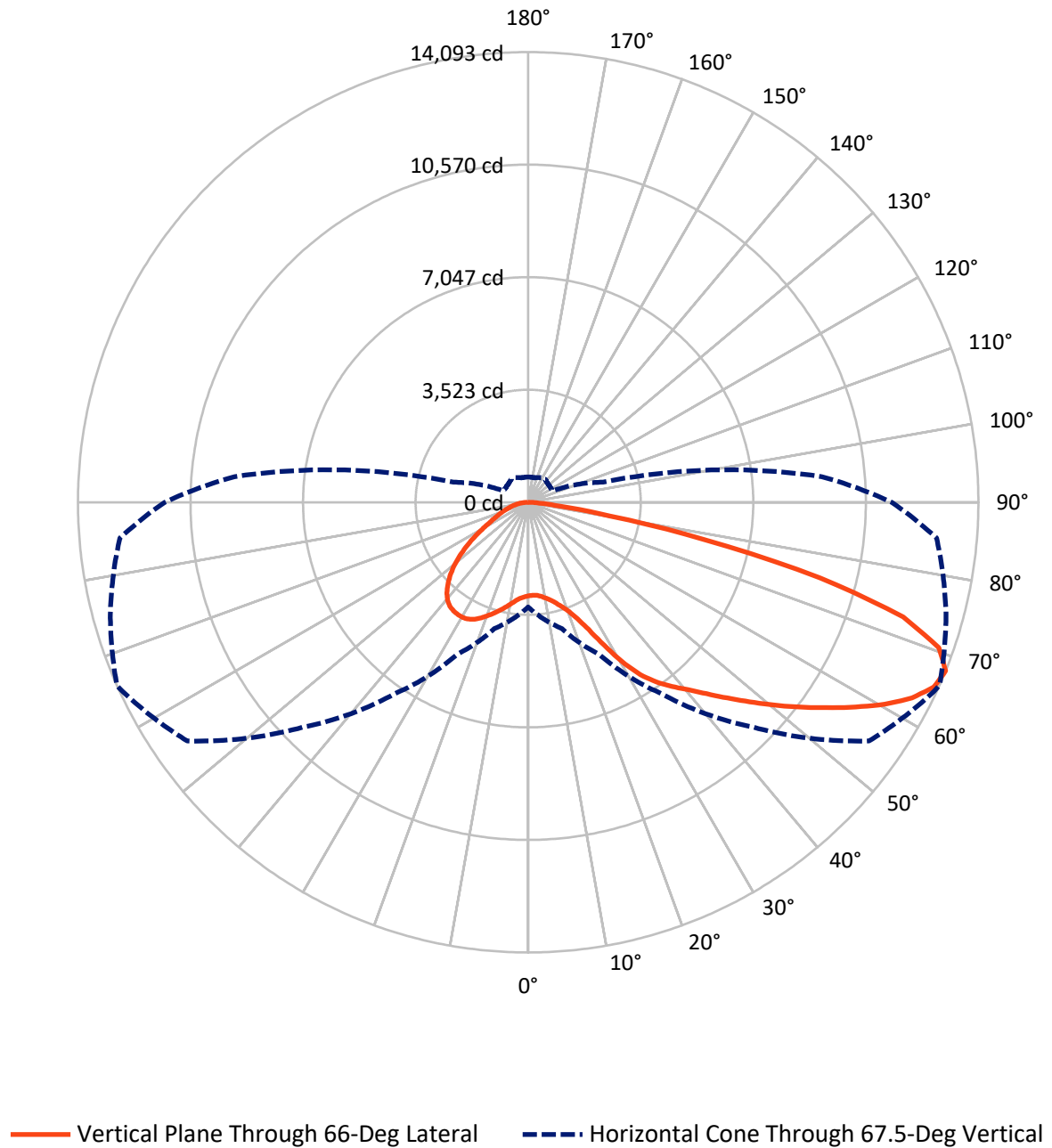


Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6564.5	0.0	6564.5
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	19836.5	0.0	19836.5
	% Fixture	75.1	0.0	75.1
Total	Lumens	26401.0	0.0	26401.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	290.3	1.1
10°-20°	959.2	3.6
20°-30°	1848.8	7.0
30°-40°	3241.6	12.3
40°-50°	4819.2	18.3
50°-60°	6108.8	23.1
60°-70°	5977.3	22.6
70°-80°	2851.2	10.8
80°-90°	304.7	1.2
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°	26401.0	100.0
0°-180°	26401.0	100.0

Coefficient of Utilization



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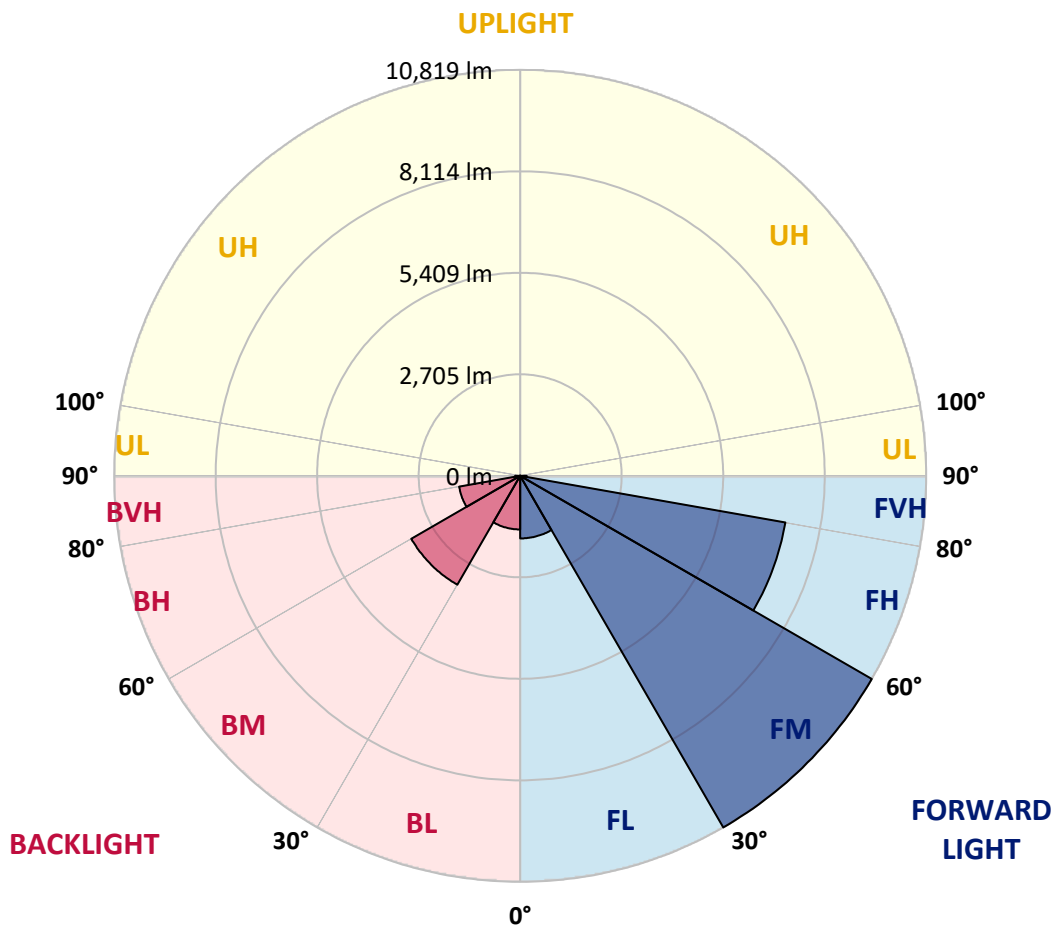
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1668.3	6.3			
FM	(30°-60°)	10818.9	41.0			
FH	(60°-80°)	7176.5	27.2			G3/7500
FVH	(80°-90°)	172.8	0.7			G2/225
BL	(0°-30°)	1430.0	5.4	B3/2500		
BM	(30°-60°)	3350.6	12.7	B3/5000		
BH	(60°-80°)	1652.0	6.3	B3/2500		G3/2500
BVH	(80°-90°)	132.0	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2928.2	2928.2	2928.2	2928.2	2928.2	2928.2	2928.2	2928.2	2928.2	2928.2	2928.2
2.5°	2897.7	2914.3	2910.2	2903.3	2901.9	2904.6	2908.8	2913.0	2911.6	2918.5	2929.6
5°	2889.4	2906.0	2904.6	2904.6	2910.2	2921.3	2928.2	2935.2	2928.2	2936.5	2951.8
7.5°	2894.9	2907.4	2913.0	2918.5	2932.4	2953.2	2969.8	2985.1	2976.8	2986.5	3005.9
10°	2965.7	2975.4	2980.9	2980.9	2990.6	3014.2	3030.9	3058.6	3051.7	3066.9	3091.9
12.5°	3094.7	3104.4	3104.4	3098.8	3105.8	3121.0	3126.6	3157.1	3144.6	3169.6	3194.5
15°	3252.8	3272.2	3257.0	3247.3	3250.0	3265.3	3263.9	3287.5	3275.0	3295.8	3318.0
17.5°	3427.6	3452.6	3427.6	3426.2	3420.6	3437.3	3438.7	3459.5	3437.3	3452.6	3467.8
20°	3634.3	3668.9	3648.1	3655.1	3642.6	3649.5	3656.5	3687.0	3652.3	3663.4	3659.2
22.5°	3925.6	3967.2	3945.0	3971.3	3963.0	3957.5	3956.1	4010.2	3956.1	3960.2	3920.0
25°	4350.0	4400.0	4361.1	4397.2	4397.2	4415.2	4436.0	4505.4	4415.2	4388.9	4284.8
27.5°	4977.0	5026.9	4950.6	4972.8	4965.9	5010.3	4988.1	5160.1	5063.0	5020.0	4810.5
30°	5731.6	5820.4	5676.1	5670.6	5663.6	5734.4	5766.3	5880.0	5781.5	5738.5	5486.1
32.5°	6547.2	6640.2	6468.2	6418.2	6391.9	6434.9	6408.5	6500.1	6432.1	6365.5	6053.4
35°	7410.0	7501.6	7337.9	7240.8	7135.4	7045.2	6950.9	6974.5	6910.7	6809.4	6486.2
37.5°	8225.6	8393.5	8220.1	8116.1	7921.9	7745.7	7482.1	7372.6	7312.9	7220.0	6894.0
40°	9056.5	9152.2	9020.5	8931.7	8720.9	8444.8	8023.1	7791.5	7711.0	7620.9	7344.8
42.5°	9668.3	9759.8	9689.1	9628.0	9463.0	9142.5	8597.4	8307.5	8191.0	8089.7	7855.3
45°	10153.8	10221.7	10177.3	10199.5	10128.8	9818.1	9192.5	8861.0	8740.3	8616.8	8432.3
47.5°	10349.3	10421.5	10492.2	10624.0	10744.7	10515.8	9831.9	9460.2	9332.6	9206.3	9024.6
50°	10327.1	10400.7	10606.0	10886.2	11260.7	11184.4	10506.1	10098.3	9980.4	9836.1	9668.3
52.5°	10149.6	10232.8	10496.4	10962.4	11558.9	11685.1	11192.7	10757.2	10646.2	10474.2	10306.3
55°	9683.5	9733.5	10128.8	10789.1	11629.7	12034.7	11865.5	11459.0	11348.1	11108.1	10925.0
57.5°	8819.3	8891.5	9467.1	10321.6	11452.1	12271.9	12456.4	12197.0	12090.2	11744.8	11553.4
60°	7691.6	7806.7	8465.6	9536.5	10999.9	12270.5	12993.2	12922.5	12833.7	12371.8	12172.0
62.5°	6415.5	6548.6	7182.5	8426.8	10209.2	11922.3	13328.9	13530.0	13484.2	12950.2	12695.0
65°	4927.1	5018.6	5649.8	6991.1	8978.9	11174.7	13367.7	13944.8	13953.1	13389.9	12968.2
67.5°	3280.5	3544.1	4092.0	5246.1	7331.0	9952.6	13026.5	14012.7	14093.2	13541.1	12830.9
70°	1600.7	1947.5	2484.3	3409.6	5246.1	8078.6	12134.6	13455.1	13634.0	13100.0	12012.5
72.5°	664.4	776.8	1069.5	1682.6	3011.4	5451.4	10342.4	11943.1	12274.7	11607.5	10099.7
75°	448.0	485.5	611.7	862.8	1371.9	2688.2	7458.6	8905.3	9439.4	8766.6	7165.9
77.5°	345.4	369.0	445.3	603.4	815.6	1016.8	3992.1	5366.8	5642.8	5223.9	3728.6
80°	271.9	289.9	332.9	439.7	578.4	543.8	1360.8	2431.6	2591.1	2173.6	1198.5
82.5°	235.8	242.7	238.6	298.2	384.2	317.7	446.7	897.5	990.4	718.5	391.2
85°	170.6	190.0	198.4	184.5	203.9	160.9	183.1	317.7	349.6	312.1	220.6
87.5°	69.4	102.6	126.2	119.3	74.9	45.8	56.9	92.9	106.8	116.5	72.1
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°	2928.2	2928.2	2928.2	2928.2	2928.2	2928.2	2928.2	2928.2	2928.2	2928.2	2928.2
2.5°	2931.0	2940.7	2947.6	2956.0	2961.5	2969.8	2986.5	2996.2	2997.6	3004.5	3003.1
5°	2957.3	2971.2	2986.5	3008.7	3033.6	3054.4	3086.4	3108.5	3116.9	3123.8	3122.4
7.5°	3014.2	3033.6	3061.4	3100.2	3136.3	3164.0	3202.9	3229.2	3255.6	3265.3	3266.7
10°	3098.8	3126.6	3166.8	3219.5	3258.4	3294.4	3334.6	3356.8	3383.2	3394.3	3399.8
12.5°	3204.3	3233.4	3286.1	3359.6	3395.7	3420.6	3434.5	3429.0	3434.5	3444.2	3447.0
15°	3324.9	3356.8	3416.5	3495.6	3520.5	3498.3	3467.8	3440.1	3435.9	3438.7	3448.4
17.5°	3467.8	3491.4	3560.7	3627.3	3609.3	3517.7	3451.2	3406.8	3384.6	3377.6	3387.4
20°	3667.6	3667.6	3724.4	3766.0	3645.4	3490.0	3386.0	3313.8	3268.1	3248.6	3244.5
22.5°	3910.3	3888.1	3924.2	3895.0	3638.4	3412.3	3268.1	3143.2	3073.9	3046.1	3042.0
25°	4218.2	4191.9	4182.2	4001.9	3588.5	3288.9	3054.4	2903.3	2842.2	2827.0	2829.7
27.5°	4682.9	4616.4	4490.1	4060.1	3496.9	3094.7	2804.8	2664.7	2630.0	2631.4	2635.5
30°	5301.6	5168.4	4859.1	4069.8	3347.1	2820.0	2549.5	2449.7	2433.0	2440.0	2463.5
32.5°	5874.5	5748.2	5236.4	4025.4	3116.9	2550.9	2320.7	2254.1	2229.1	2237.4	2248.5
35°	6323.9	6289.2	5586.0	3963.0	2833.9	2298.5	2115.4	2058.5	2009.9	1998.8	2007.2
37.5°	6748.4	6734.5	5848.1	3875.6	2553.7	2119.5	1950.3	1875.4	1804.6	1765.8	1767.2
40°	7214.4	7200.6	6020.1	3741.1	2305.4	1964.2	1801.9	1703.4	1616.0	1545.3	1552.2
42.5°	7738.8	7656.9	6102.0	3548.3	2094.6	1832.4	1681.2	1548.0	1432.9	1367.7	1371.9
45°	8311.6	8127.2	6100.6	3302.7	1917.0	1711.7	1552.2	1363.5	1256.7	1195.7	1192.9
47.5°	8919.2	8576.6	6025.7	3030.9	1745.0	1578.5	1352.4	1208.2	1137.4	1100.0	1091.7
50°	9546.2	8996.9	5898.1	2718.8	1568.8	1427.4	1227.6	1129.1	1075.0	1040.3	1027.9
52.5°	10135.7	9378.3	5744.1	2365.0	1389.9	1280.3	1172.1	1095.8	1039.0	1000.1	983.5
55°	10683.6	9707.1	5526.3	2003.0	1244.3	1181.8	1145.8	1082.0	1016.8	971.0	953.0
57.5°	11170.5	9920.7	5150.4	1663.2	1140.2	1113.9	1118.0	1058.4	983.5	944.6	919.7
60°	11575.6	10077.5	4594.2	1348.3	1055.6	1047.3	1075.0	1014.0	926.6	882.2	862.8
62.5°	11818.3	10074.7	3911.7	1104.2	983.5	986.2	1018.1	958.5	869.7	828.1	815.6
65°	11797.5	9827.8	3162.6	944.6	914.1	916.9	958.5	897.5	822.6	797.6	796.2
67.5°	11380.0	9225.8	2426.1	840.6	837.8	850.3	898.9	855.9	793.4	790.7	794.8
70°	10249.5	7976.0	1747.8	757.4	758.8	776.8	840.6	829.5	778.2	783.7	782.3
72.5°	8218.7	6081.2	1173.5	670.0	671.4	700.5	785.1	808.7	762.9	836.4	847.5
75°	5473.6	3792.4	754.6	577.0	578.4	615.9	736.6	768.5	721.3	833.7	840.6
77.5°	2630.0	1704.8	546.5	485.5	485.5	520.2	636.7	688.0	614.5	647.8	593.7
80°	908.6	640.9	430.0	391.2	382.8	406.4	536.8	596.5	529.9	488.3	457.8
82.5°	357.9	332.9	345.4	303.8	276.0	291.3	417.5	492.4	389.8	352.3	350.9
85°	205.3	216.4	244.1	201.1	159.5	178.9	306.6	353.7	294.1	259.4	264.9
87.5°	55.5	76.3	112.4	104.0	72.1	76.3	145.6	195.6	169.2	130.4	134.6
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)