

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: P522810

Luminaire Tested: **GALN-SA6B-830-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522810
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6B-830-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26833 lumens
Efficiency: N/A
Efficacy: 110.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 243
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

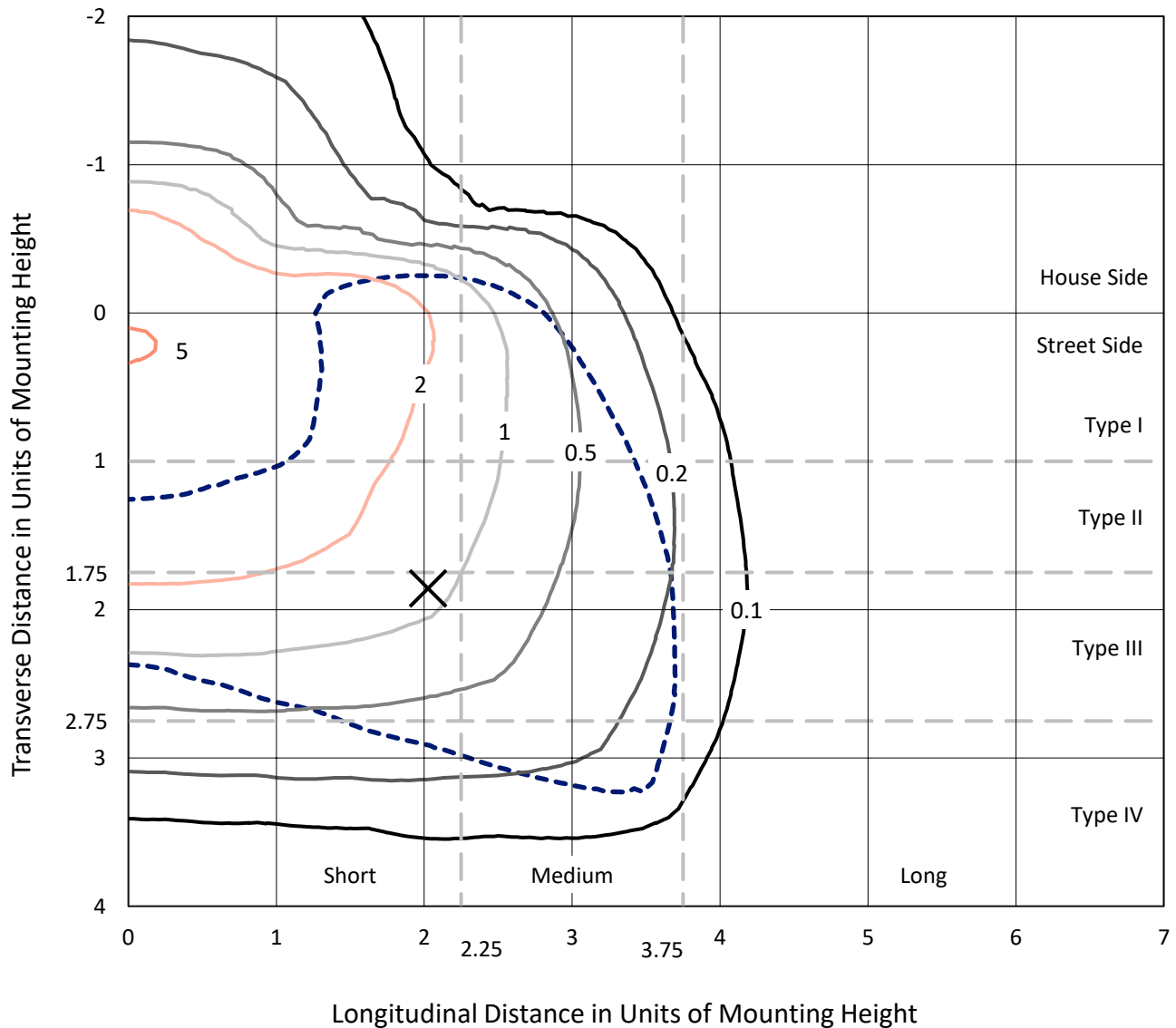


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

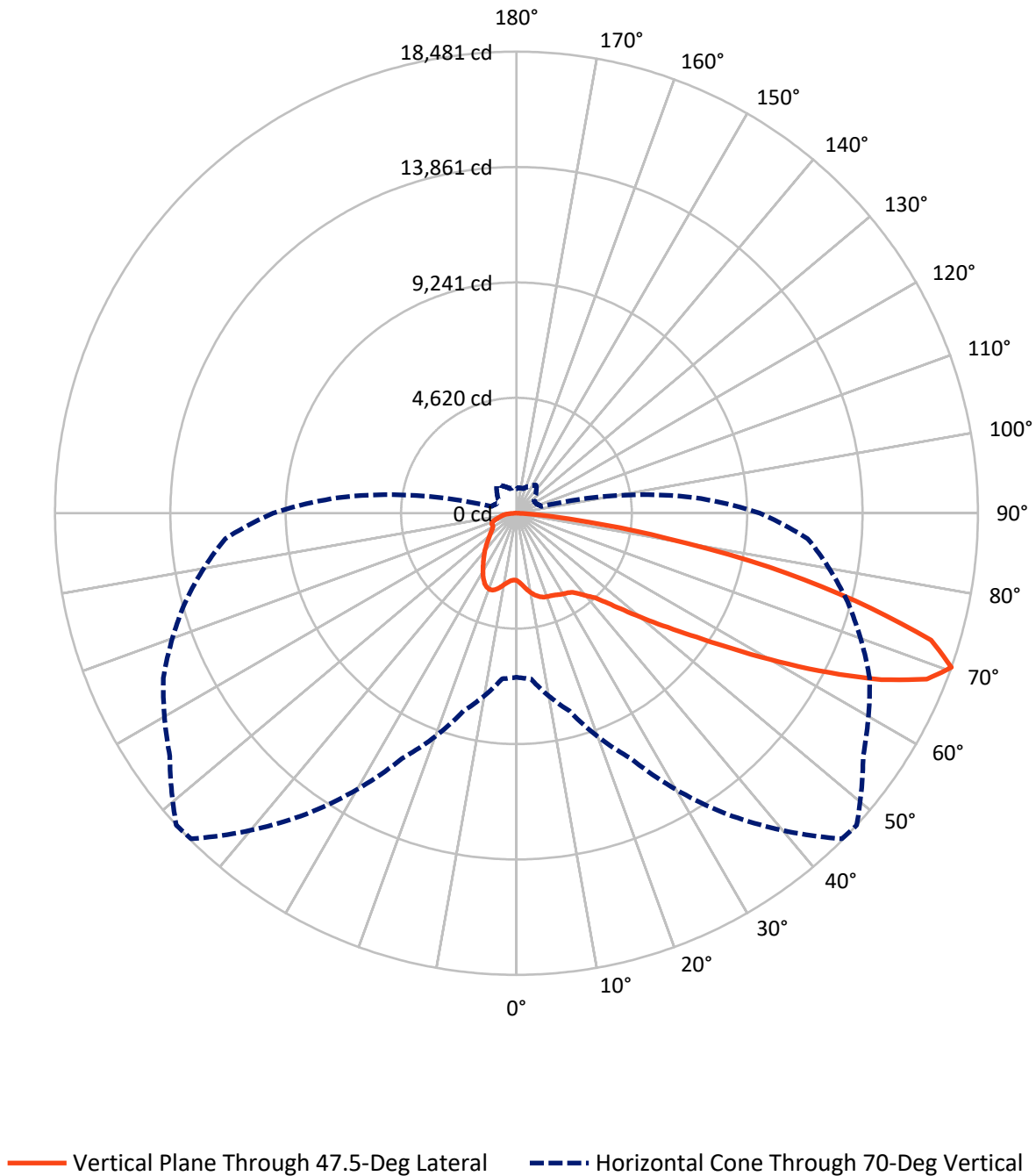


Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6075.5	0.0	6075.5
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	20757.5	0.0	20757.5
	% Fixture	77.4	0.0	77.4
Total	Lumens	26833.0	0.0	26833.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.7	1.0
10°-20°	928.3	3.5
20°-30°	1543.7	5.8
30°-40°	2187.9	8.2
40°-50°	3229.9	12.0
50°-60°	5594.3	20.8
60°-70°	7902.1	29.4
70°-80°	4542.5	16.9
80°-90°	626.8	2.3
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°	26833.0	100.0
0°-180°	26833.0	100.0

Coefficient of Utilization



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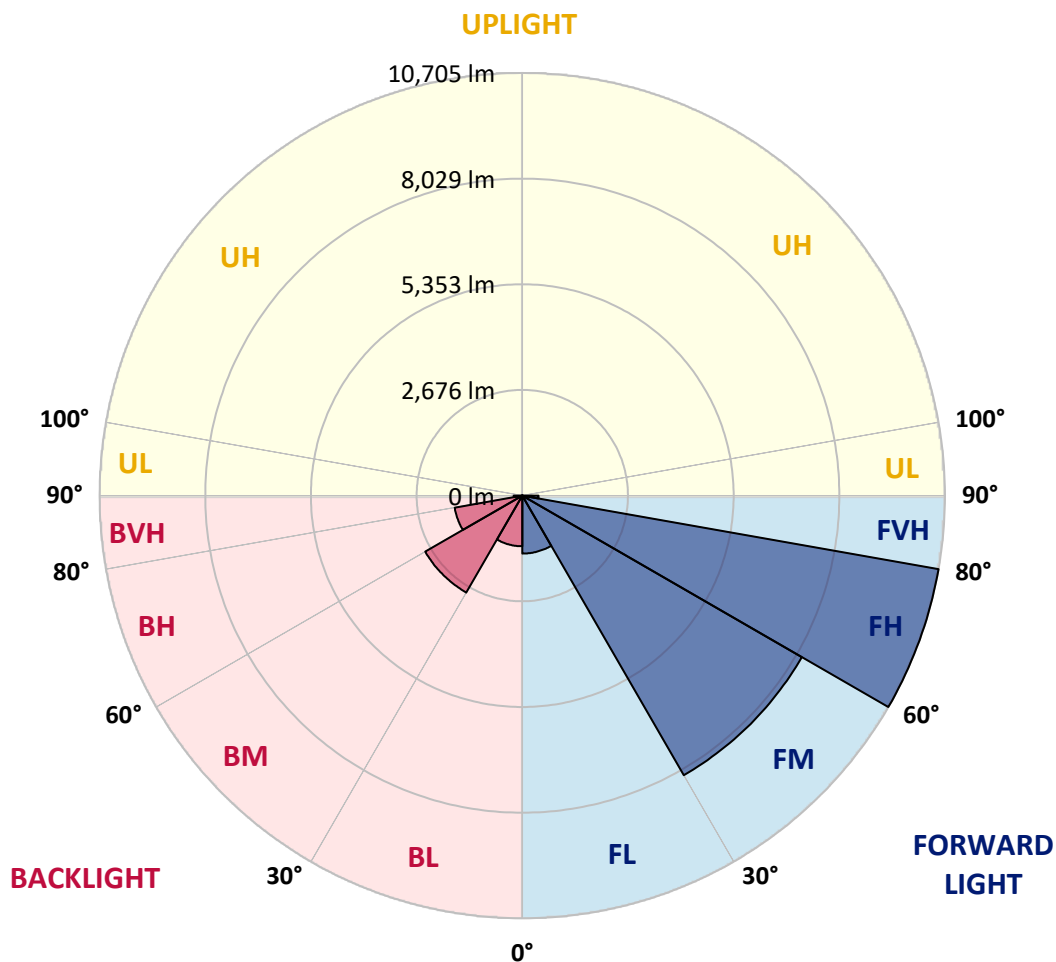
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1467.3	5.5			
FM	(30°-60°)	8175.5	30.5			
FH	(60°-80°)	10705.3	39.9			G4/12000
FVH	(80°-90°)	409.4	1.5			G3/500
BL	(0°-30°)	1282.3	4.8	B3/2500		
BM	(30°-60°)	2836.5	10.6	B3/5000		
BH	(60°-80°)	1739.3	6.5	B3/2500		G3/2500
BVH	(80°-90°)	217.3	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	2693.7	2693.7	2693.7	2693.7	2693.7	2693.7	2693.7	2693.7	2693.7	2693.7	2693.7
2.5°	2867.5	2857.4	2856.0	2834.4	2822.9	2801.4	2792.8	2772.7	2748.3	2723.9	2700.9
5°	3092.9	3092.9	3082.8	3052.7	3005.3	2956.5	2934.9	2896.2	2827.2	2771.2	2723.9
7.5°	3324.1	3326.9	3306.8	3262.3	3194.8	3115.9	3095.8	3038.3	2940.7	2858.8	2788.5
10°	3523.6	3523.6	3496.4	3436.1	3351.3	3265.2	3245.1	3180.5	3071.3	2969.4	2877.5
12.5°	3675.9	3675.9	3640.0	3561.0	3469.1	3391.5	3368.6	3306.8	3204.9	3091.4	2975.1
15°	3774.9	3767.7	3727.5	3638.5	3549.5	3482.0	3466.2	3414.5	3321.2	3206.3	3075.7
17.5°	3779.2	3776.4	3737.6	3662.9	3585.4	3539.4	3529.4	3494.9	3421.7	3312.6	3174.7
20°	3696.0	3701.7	3675.9	3622.7	3585.4	3565.3	3561.0	3549.5	3497.8	3395.9	3258.0
22.5°	3606.9	3617.0	3592.6	3563.9	3561.0	3581.1	3584.0	3586.8	3553.8	3454.7	3328.4
25°	3585.4	3592.6	3568.2	3542.3	3558.1	3611.2	3622.7	3634.2	3608.4	3525.1	3411.7
27.5°	3694.5	3688.8	3641.4	3585.4	3595.4	3667.2	3683.0	3696.0	3683.0	3611.2	3515.0
30°	4003.2	3984.6	3889.8	3726.1	3674.4	3724.7	3740.5	3776.4	3776.4	3723.2	3627.0
32.5°	4520.1	4484.3	4310.5	3988.9	3809.4	3779.2	3795.0	3853.9	3884.1	3842.4	3737.6
35°	5147.6	5110.3	4861.9	4429.7	4056.4	3888.4	3884.1	3950.1	4030.5	3937.2	3800.8
37.5°	5778.0	5739.2	5440.5	4955.2	4416.8	4118.1	4092.3	4115.2	4149.7	3978.8	3888.4
40°	6408.3	6362.4	6101.1	5542.5	4857.6	4422.5	4355.0	4251.6	4237.3	4115.2	4057.8
42.5°	7032.9	6991.3	6859.2	6201.6	5386.0	4719.7	4616.4	4438.3	4492.9	4419.6	4369.4
45°	7663.3	7666.2	7525.4	6941.0	6023.5	5268.2	5129.0	4850.4	4979.6	4952.3	4981.1
47.5°	8221.8	8214.7	8164.4	7659.0	6814.7	5974.7	5795.2	5472.1	5693.3	5793.8	6013.5
50°	8763.2	8758.9	8761.7	8473.1	7733.6	6814.7	6616.5	6277.7	6775.9	7124.8	7518.3
52.5°	9538.5	9563.0	9389.2	9313.1	8850.8	7806.9	7588.6	7238.3	8055.3	8605.2	9373.4
55°	10316.8	10296.7	10160.3	10239.3	10019.6	8981.4	8753.1	8474.6	9479.7	10081.3	11235.8
57.5°	10774.8	10782.0	10921.3	11307.6	11462.6	10446.0	10239.3	10023.9	11080.7	11507.1	12892.8
60°	11186.9	11220.0	11620.6	12350.0	12770.7	12245.2	12061.4	11851.8	12549.6	12719.0	14331.5
62.5°	11316.2	11418.1	12117.4	13208.7	14045.8	14275.5	14047.2	13584.9	13948.1	13882.1	15306.5
65°	10671.5	10810.7	12064.3	13530.3	15184.4	16202.5	16057.4	15198.8	15139.9	14742.2	15465.9
67.5°	8974.2	9113.5	10723.1	12855.4	15655.4	17871.0	17725.9	16376.2	15863.6	14822.6	14259.7
70°	6566.3	6653.9	8193.1	10823.7	14709.2	18431.0	18481.2	16950.6	15605.1	13729.9	11708.2
72.5°	3783.5	3977.4	5055.7	7614.5	12016.9	17015.2	17364.1	15755.9	13971.1	11454.0	8186.0
75°	1626.9	1631.2	2337.6	4199.9	8138.6	13676.8	14014.2	13060.8	10971.6	7920.3	4370.8
77.5°	773.9	788.3	1028.1	1875.3	4479.9	9449.5	10359.9	9227.0	7017.1	3805.1	1651.3
80°	502.6	512.6	628.9	930.5	2196.9	5479.3	6114.0	5322.8	3095.8	1359.8	712.2
82.5°	304.4	307.3	420.7	568.6	1209.0	2481.2	2924.9	2310.3	1321.0	814.1	419.3
85°	185.2	186.7	255.6	351.8	733.7	857.2	880.2	873.0	775.4	532.7	224.0
87.5°	89.0	91.9	132.1	166.6	288.6	265.6	251.3	291.5	366.1	287.2	96.2
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°	2693.7	2693.7	2693.7	2693.7	2693.7	2693.7	2693.7	2693.7	2693.7	2693.7	2693.7
2.5°	2690.8	2686.5	2676.5	2672.2	2669.3	2670.7	2669.3	2669.3	2670.7	2670.7	2670.7
5°	2703.8	2696.6	2680.8	2680.8	2689.4	2709.5	2728.2	2742.5	2758.3	2756.9	2756.9
7.5°	2759.8	2746.8	2728.2	2733.9	2755.5	2787.0	2820.1	2851.7	2883.2	2886.1	2884.7
10°	2841.6	2828.7	2808.6	2815.8	2850.2	2897.6	2939.2	2985.2	3019.7	3029.7	3026.8
12.5°	2934.9	2909.1	2891.9	2912.0	2966.5	3029.7	3069.9	3104.4	3128.8	3143.1	3137.4
15°	3029.7	3005.3	2985.2	3026.8	3092.9	3151.8	3171.9	3177.6	3181.9	3196.3	3193.4
17.5°	3121.6	3088.6	3081.4	3136.0	3199.1	3225.0	3213.5	3189.1	3170.4	3181.9	3180.5
20°	3203.4	3177.6	3174.7	3229.3	3253.7	3229.3	3180.5	3137.4	3104.4	3107.2	3105.8
22.5°	3281.0	3260.9	3263.8	3286.7	3248.0	3164.7	3084.3	3025.4	2989.5	2996.7	3001.0
25°	3367.1	3347.0	3354.2	3316.9	3189.1	3044.1	2927.8	2877.5	2863.1	2877.5	2887.6
27.5°	3479.1	3466.2	3461.9	3318.3	3084.3	2866.0	2733.9	2715.2	2728.2	2759.8	2775.6
30°	3599.8	3599.8	3576.8	3293.9	2940.7	2652.1	2537.2	2540.1	2584.6	2629.1	2644.9
32.5°	3716.1	3740.5	3668.7	3227.9	2755.5	2443.9	2356.3	2359.2	2397.9	2452.5	2466.8
35°	3812.3	3882.6	3747.6	3107.2	2537.2	2268.7	2202.6	2163.9	2165.3	2206.9	2218.4
37.5°	3944.4	4075.0	3793.6	2927.8	2304.6	2119.4	2044.7	1977.2	1932.7	1915.5	1915.5
40°	4174.1	4366.5	3805.1	2662.1	2084.9	1977.2	1871.0	1790.5	1704.4	1626.9	1612.5
42.5°	4563.2	4805.9	3782.1	2356.3	1886.7	1820.7	1717.3	1618.2	1499.1	1389.9	1381.3
45°	5252.4	5377.4	3720.4	2038.9	1710.1	1669.9	1569.4	1461.7	1335.4	1237.7	1230.5
47.5°	6356.6	6180.0	3638.5	1757.5	1549.3	1537.8	1460.3	1335.4	1209.0	1141.5	1134.3
50°	7969.1	7443.6	3627.0	1553.6	1420.1	1425.8	1362.6	1247.8	1137.2	1081.2	1072.6
52.5°	9910.4	8969.9	3703.1	1410.0	1306.7	1328.2	1296.6	1190.3	1092.7	1045.3	1036.7
55°	11794.3	10342.6	3749.1	1298.0	1200.4	1240.6	1244.9	1155.9	1066.9	1019.5	1013.7
57.5°	13323.5	11376.5	3545.2	1196.1	1108.5	1170.2	1201.8	1135.8	1053.9	1018.0	1012.3
60°	14387.5	11864.7	2965.1	1105.6	1041.0	1114.2	1186.0	1137.2	1085.5	1089.8	1092.7
62.5°	14726.4	11647.9	2224.2	1038.1	995.1	1095.6	1211.9	1196.1	1143.0	1176.0	1181.7
65°	14165.0	10751.9	1612.5	985.0	954.9	1108.5	1289.4	1239.2	1122.9	1147.3	1147.3
67.5°	12285.4	9262.9	1255.0	936.2	908.9	1132.9	1367.0	1234.9	1075.5	1104.2	1078.3
70°	9745.3	7165.0	1045.3	881.6	860.1	1097.0	1374.1	1190.3	1019.5	1025.2	976.4
72.5°	6467.2	4711.1	898.9	829.9	785.4	986.4	1315.3	1132.9	964.9	931.9	883.1
75°	3169.0	2349.1	784.0	765.3	687.8	858.7	1234.9	1078.3	906.0	854.3	827.1
77.5°	1227.7	999.4	669.1	683.5	598.8	756.7	1128.6	1000.8	828.5	758.1	736.6
80°	595.9	567.2	548.5	570.0	492.5	644.7	1031.0	933.3	756.7	679.2	647.6
82.5°	370.5	350.4	420.7	443.7	379.1	588.7	977.8	875.9	666.2	562.9	537.0
85°	188.1	201.0	281.4	303.0	271.4	468.1	805.5	657.6	481.0	399.2	402.0
87.5°	71.8	96.2	147.9	159.4	145.0	247.0	443.7	383.4	308.7	209.6	193.8
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)