

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: P522756

Luminaire Tested: **GALN-SA4D-830-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522756
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-SA4D-830-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24336 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 245
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



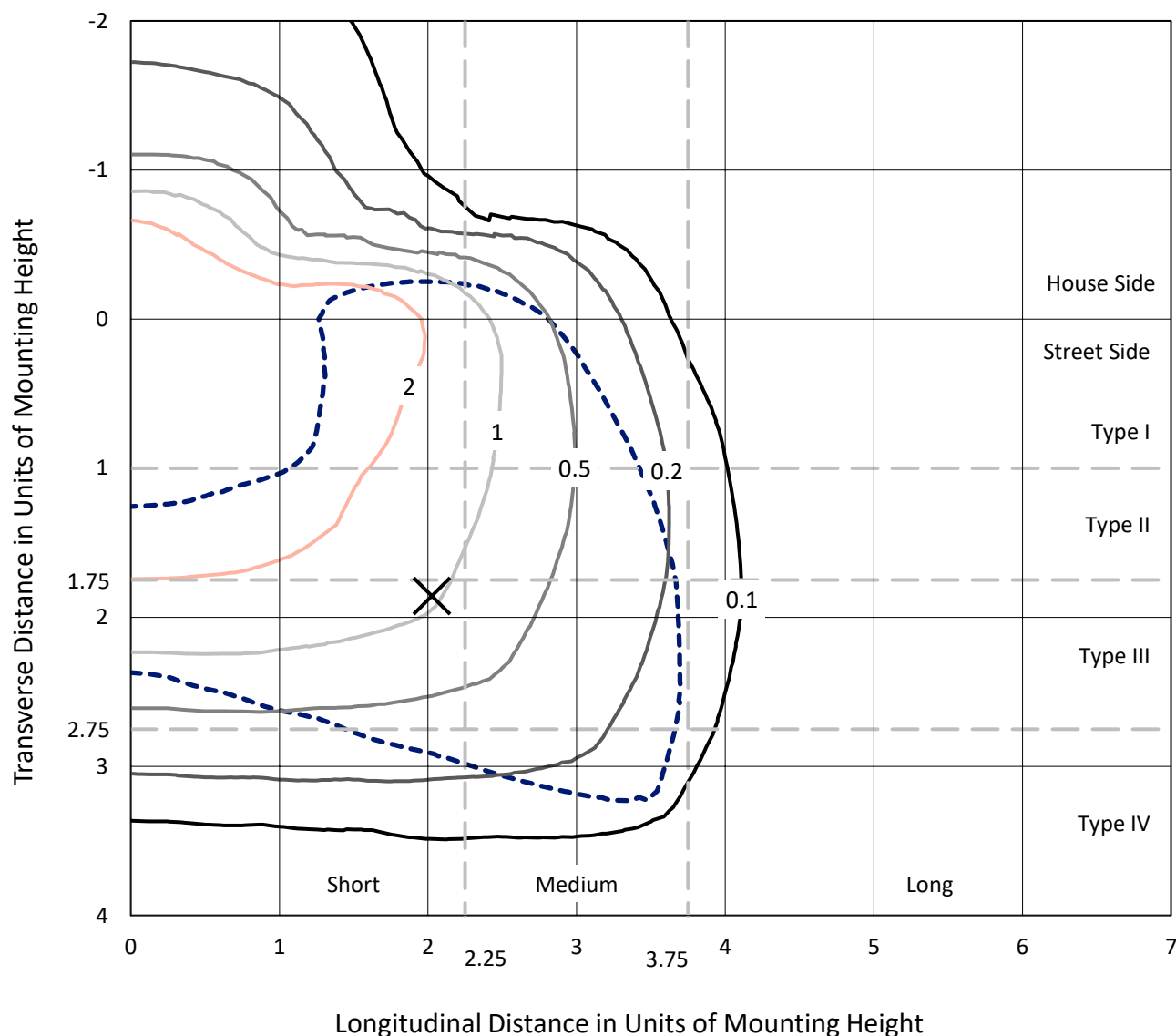
REPORT NUMBER: P522756

CATALOG NUMBER: GALN-SA4D-830-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



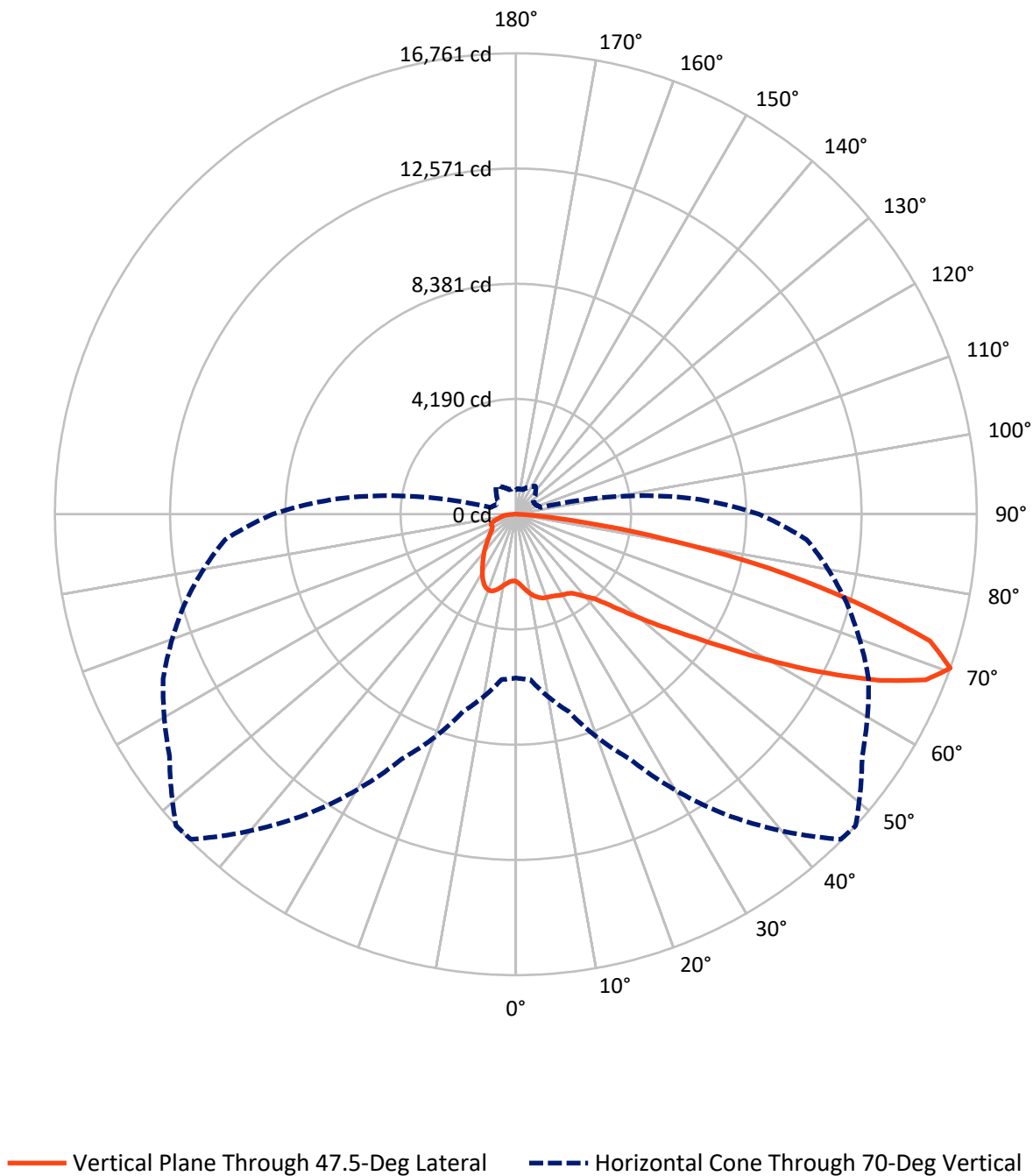
Based on 25 foot mounting height. Maximum calculated value = 5 fc

Type IV - Short - N/A

REPORT NUMBER: P522756

CATALOG NUMBER: GALN-SA4D-830-U-T4W

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5510.1	0.0	5510.1
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	18825.9	0.0	18825.9
	% Fixture	77.4	0.0	77.4
Total	Lumens	24336.0	0.0	24336.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	251.8	1.0
10°-20°	841.9	3.5
20°-30°	1400.0	5.8
30°-40°	1984.3	8.2
40°-50°	2929.3	12.0
50°-60°	5073.7	20.8
60°-70°	7166.7	29.4
70°-80°	4119.8	16.9
80°-90°	568.4	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°	24336.0	100.0
0°-180°	24336.0	100.0

Coefficient of Utilization



REPORT NUMBER: P522756

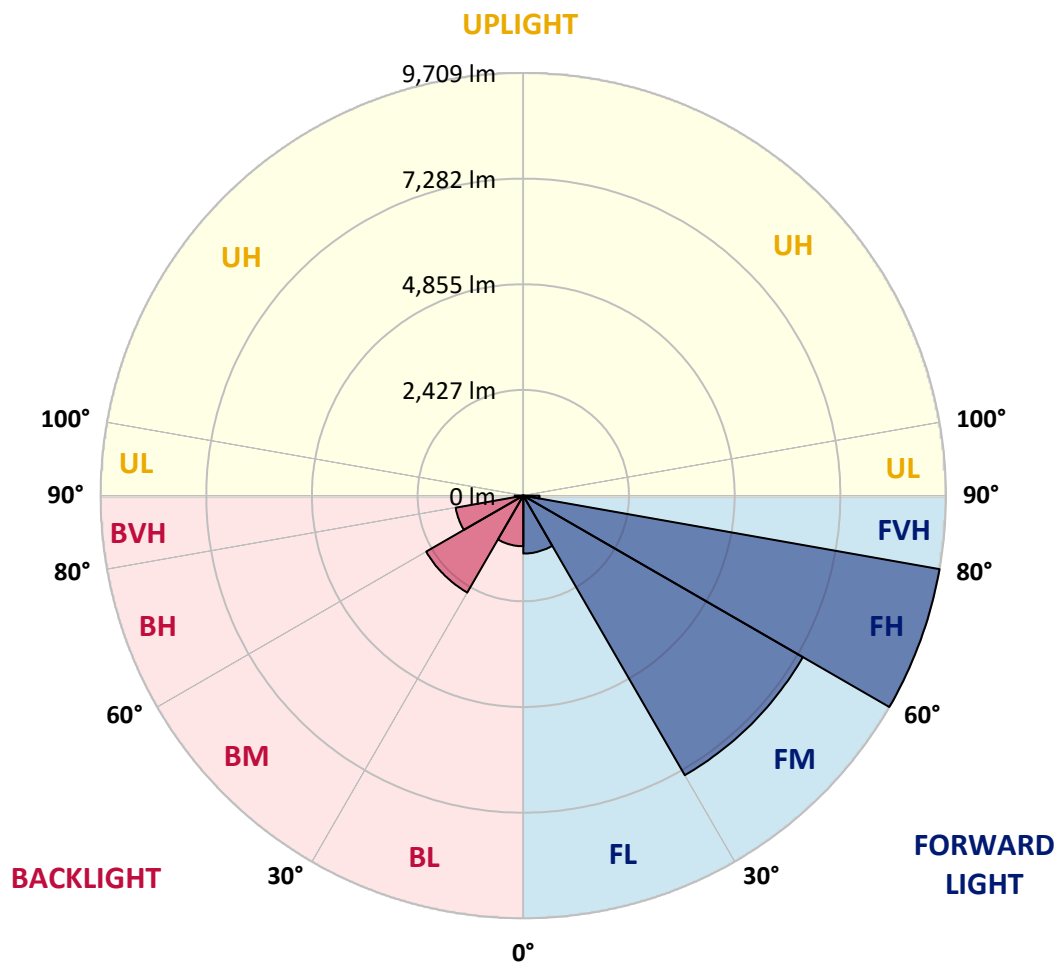
CATALOG NUMBER: GALN-SA4D-830-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1330.8	5.5			
FM	(30°-60°)	7414.7	30.5			
FH	(60°-80°)	9709.1	39.9			G4/12000
FVH	(80°-90°)	371.3	1.5			G3/500
BL	(0°-30°)	1163.0	4.8	B3/2500		
BM	(30°-60°)	2572.6	10.6	B3/5000		
BH	(60°-80°)	1577.5	6.5	B3/2500		G3/2500
BVH	(80°-90°)	197.1	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





REPORT NUMBER: P522756

CATALOG NUMBER: GALN-SA4D-830-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	2443.0	2443.0	2443.0	2443.0	2443.0	2443.0	2443.0	2443.0	2443.0	2443.0	2443.0
2.5°	2600.6	2591.5	2590.2	2570.7	2560.2	2540.7	2532.9	2514.7	2492.5	2470.4	2449.6
5°	2805.1	2805.1	2796.0	2768.6	2725.6	2681.4	2661.8	2626.7	2564.2	2513.4	2470.4
7.5°	3014.7	3017.3	2999.1	2958.7	2897.5	2825.9	2807.7	2755.6	2667.0	2592.8	2529.0
10°	3195.7	3195.7	3171.0	3116.3	3039.5	2961.3	2943.1	2884.5	2785.5	2693.1	2609.7
12.5°	3333.8	3333.8	3301.2	3229.6	3146.3	3075.9	3055.1	2999.1	2906.6	2803.8	2698.3
15°	3423.6	3417.1	3380.7	3299.9	3219.2	3158.0	3143.7	3096.8	3012.1	2907.9	2789.4
17.5°	3427.6	3424.9	3389.8	3322.1	3251.7	3210.1	3201.0	3169.7	3103.3	3004.3	2879.3
20°	3352.0	3357.2	3333.8	3285.6	3251.7	3233.5	3229.6	3219.2	3172.3	3079.8	2954.8
22.5°	3271.3	3280.4	3258.3	3232.2	3229.6	3247.8	3250.4	3253.0	3223.1	3133.2	3018.6
25°	3251.7	3258.3	3236.1	3212.7	3227.0	3275.2	3285.6	3296.0	3272.6	3197.1	3094.2
27.5°	3350.7	3345.5	3302.5	3251.7	3260.9	3326.0	3340.3	3352.0	3340.3	3275.2	3187.9
30°	3630.7	3613.8	3527.8	3379.4	3332.5	3378.1	3392.4	3424.9	3424.9	3376.8	3289.5
32.5°	4099.5	4067.0	3909.4	3617.7	3454.9	3427.6	3441.9	3495.3	3522.6	3484.9	3389.8
35°	4668.6	4634.7	4409.5	4017.5	3678.9	3526.5	3522.6	3582.5	3655.4	3570.8	3447.1
37.5°	5240.3	5205.1	4934.3	4494.1	4005.8	3734.9	3711.4	3732.3	3763.5	3608.6	3526.5
40°	5812.0	5770.3	5533.3	5026.7	4405.5	4011.0	3949.8	3856.0	3843.0	3732.3	3680.2
42.5°	6378.5	6340.7	6220.9	5624.5	4884.8	4280.5	4186.8	4025.3	4074.8	4008.4	3962.8
45°	6950.2	6952.8	6825.1	6295.1	5463.0	4778.0	4651.7	4399.0	4516.2	4491.5	4517.5
47.5°	7456.7	7450.2	7404.7	6946.3	6180.5	5418.7	5255.9	4962.9	5163.5	5254.6	5453.9
50°	7947.7	7943.8	7946.4	7684.6	7014.0	6180.5	6000.8	5693.5	6145.4	6461.8	6818.6
52.5°	8650.9	8673.1	8515.5	8446.5	8027.1	7080.4	6882.4	6564.7	7305.7	7804.4	8501.2
55°	9356.7	9338.5	9214.8	9286.4	9087.2	8145.6	7938.6	7685.9	8597.5	9143.2	10190.2
57.5°	9772.2	9778.7	9905.0	10255.3	10395.9	9473.9	9286.4	9091.1	10049.5	10436.3	11693.0
60°	10145.9	10175.9	10539.2	11200.7	11582.3	11105.7	10939.0	10748.9	11381.8	11535.4	12997.9
62.5°	10263.1	10355.6	10989.8	11979.5	12738.7	12947.1	12740.0	12320.7	12650.2	12590.3	13882.1
65°	9678.4	9804.7	10941.6	12271.2	13771.4	14694.7	14563.2	13784.4	13731.0	13370.3	14026.7
67.5°	8139.1	8265.5	9725.3	11659.1	14198.6	16207.9	16076.4	14852.3	14387.4	13443.2	12932.8
70°	5955.2	6034.7	7430.7	9816.4	13340.4	16715.8	16761.4	15373.2	14153.0	12452.2	10618.6
72.5°	3431.5	3607.3	4585.3	6905.9	10898.6	15431.8	15748.2	14289.7	12671.0	10388.1	7424.2
75°	1475.5	1479.4	2120.1	3809.1	7381.2	12404.0	12710.1	11845.4	9950.6	7183.3	3964.1
77.5°	701.9	714.9	932.4	1700.8	4063.1	8570.2	9395.8	8368.3	6364.1	3451.0	1497.6
80°	455.8	464.9	570.4	843.9	1992.5	4969.4	5545.0	4827.5	2807.7	1233.2	645.9
82.5°	276.1	278.7	381.6	515.7	1096.5	2250.3	2652.7	2095.3	1198.1	738.4	380.3
85°	168.0	169.3	231.8	319.1	665.5	777.4	798.3	791.8	703.2	483.1	203.2
87.5°	80.7	83.3	119.8	151.1	261.8	240.9	227.9	264.4	332.1	260.5	87.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P522756

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2443.0	2443.0	2443.0	2443.0	2443.0	2443.0	2443.0	2443.0	2443.0	2443.0	2443.0
2.5°	2440.4	2436.5	2427.4	2423.5	2420.9	2422.2	2420.9	2420.9	2422.2	2422.2	2422.2
5°	2452.2	2445.6	2431.3	2431.3	2439.1	2457.4	2474.3	2487.3	2501.6	2500.3	2500.3
7.5°	2502.9	2491.2	2474.3	2479.5	2499.0	2527.7	2557.6	2586.3	2614.9	2617.5	2616.2
10°	2577.2	2565.5	2547.2	2553.7	2585.0	2628.0	2665.7	2707.4	2738.7	2747.8	2745.2
12.5°	2661.8	2638.4	2622.8	2641.0	2690.5	2747.8	2784.2	2815.5	2837.6	2850.6	2845.4
15°	2747.8	2725.6	2707.4	2745.2	2805.1	2858.5	2876.7	2881.9	2885.8	2898.8	2896.2
17.5°	2831.1	2801.2	2794.7	2844.1	2901.4	2924.9	2914.5	2892.3	2875.4	2885.8	2884.5
20°	2905.3	2881.9	2879.3	2928.8	2950.9	2928.8	2884.5	2845.4	2815.5	2818.1	2816.8
22.5°	2975.7	2957.4	2960.0	2980.9	2945.7	2870.2	2797.3	2743.9	2711.3	2717.8	2721.7
25°	3053.8	3035.6	3042.1	3008.2	2892.3	2760.8	2655.3	2609.7	2596.7	2609.7	2618.8
27.5°	3155.4	3143.7	3139.8	3009.5	2797.3	2599.3	2479.5	2462.6	2474.3	2502.9	2517.3
30°	3264.8	3264.8	3243.9	2987.4	2667.0	2405.3	2301.1	2303.7	2344.1	2384.4	2398.8
32.5°	3370.3	3392.4	3327.3	2927.5	2499.0	2216.4	2137.0	2139.6	2174.8	2224.3	2237.3
35°	3457.5	3521.3	3398.9	2818.1	2301.1	2057.6	1997.7	1962.5	1963.8	2001.6	2012.0
37.5°	3577.3	3695.8	3440.6	2655.3	2090.1	1922.1	1854.4	1793.2	1752.8	1737.2	1737.2
40°	3785.7	3960.2	3451.0	2414.4	1890.9	1793.2	1696.8	1623.9	1545.8	1475.5	1462.4
42.5°	4138.6	4358.7	3430.2	2137.0	1711.2	1651.3	1557.5	1467.6	1359.6	1260.6	1252.8
45°	4763.7	4877.0	3374.2	1849.2	1551.0	1514.5	1423.4	1325.7	1211.1	1122.5	1116.0
47.5°	5765.1	5604.9	3299.9	1594.0	1405.1	1394.7	1324.4	1211.1	1096.5	1035.3	1028.8
50°	7227.5	6750.9	3289.5	1409.0	1287.9	1293.1	1235.8	1131.7	1031.4	980.6	972.8
52.5°	8988.2	8135.2	3358.5	1278.8	1185.1	1204.6	1175.9	1079.6	991.0	948.0	940.2
55°	10696.8	9380.2	3400.2	1177.2	1088.7	1125.2	1129.1	1048.3	967.6	924.6	919.4
57.5°	12083.7	10317.8	3215.3	1084.8	1005.3	1061.3	1090.0	1030.1	955.9	923.3	918.1
60°	13048.7	10760.6	2689.2	1002.7	944.1	1010.6	1075.7	1031.4	984.5	988.4	991.0
62.5°	13356.0	10563.9	2017.2	941.5	902.5	993.6	1099.1	1084.8	1036.6	1066.6	1071.8
65°	12846.8	9751.3	1462.4	893.4	866.0	1005.3	1169.4	1123.9	1018.4	1040.5	1040.5
67.5°	11142.1	8400.9	1138.2	849.1	824.3	1027.5	1239.8	1119.9	975.4	1001.4	978.0
70°	8838.4	6498.3	948.0	799.6	780.1	994.9	1246.3	1079.6	924.6	929.8	885.5
72.5°	5865.4	4272.7	815.2	752.7	712.3	894.7	1192.9	1027.5	875.1	845.2	800.9
75°	2874.1	2130.5	711.0	694.1	623.8	778.8	1119.9	978.0	821.7	774.8	750.1
77.5°	1113.4	906.4	606.9	619.9	543.0	686.3	1023.6	907.7	751.4	687.6	668.1
80°	540.4	514.4	497.5	517.0	446.7	584.7	935.0	846.5	686.3	616.0	587.3
82.5°	336.0	317.8	381.6	402.4	343.8	533.9	886.8	794.4	604.2	510.5	487.0
85°	170.6	182.3	255.2	274.8	246.1	424.5	730.6	596.4	436.3	362.0	364.6
87.5°	65.1	87.3	134.1	144.6	131.5	224.0	402.4	347.7	280.0	190.1	175.8
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)