

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: P646977

Luminaire Tested: **GALN-SA5C-835-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P646977
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-SA5C-835-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27587.4 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

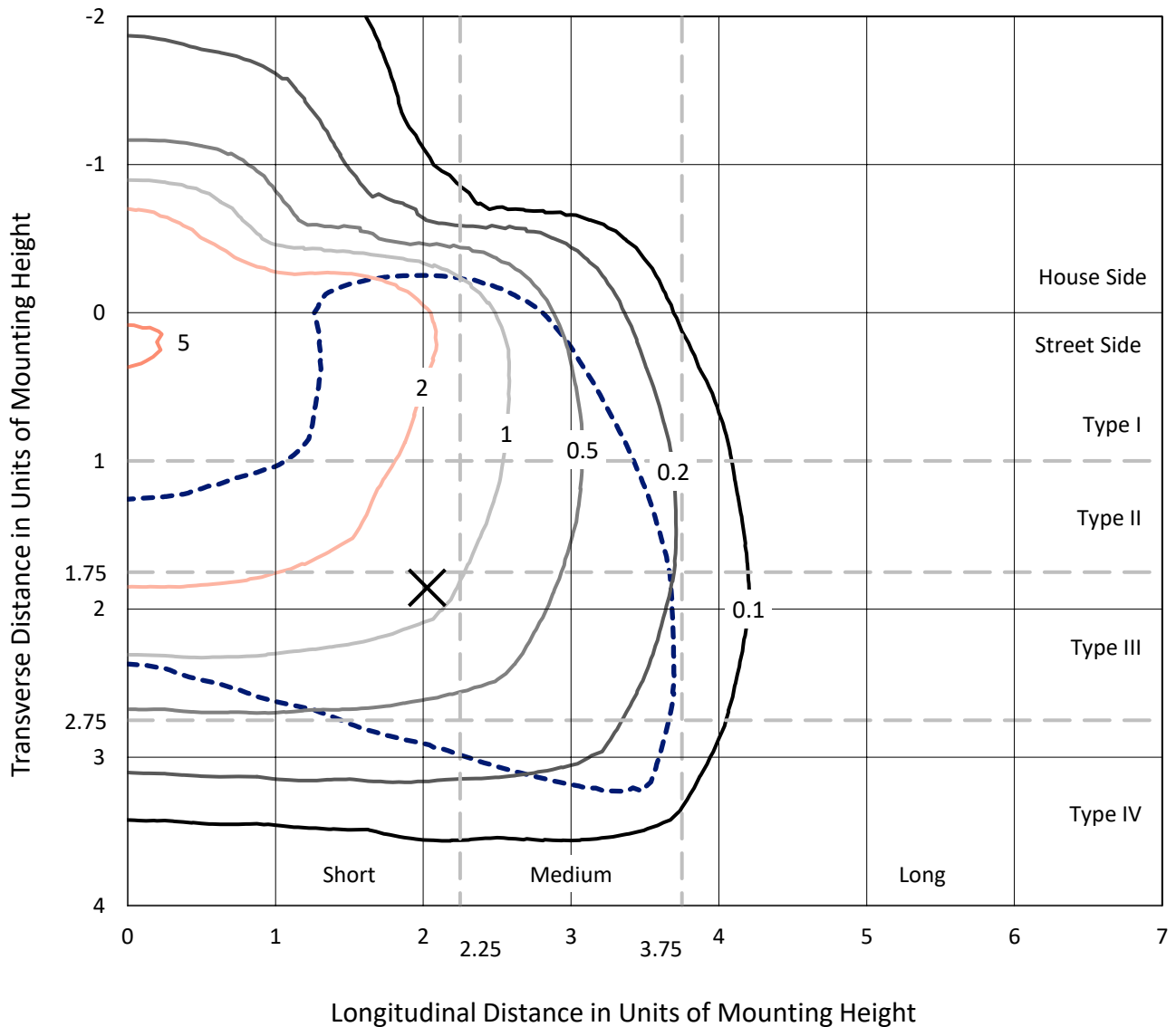
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

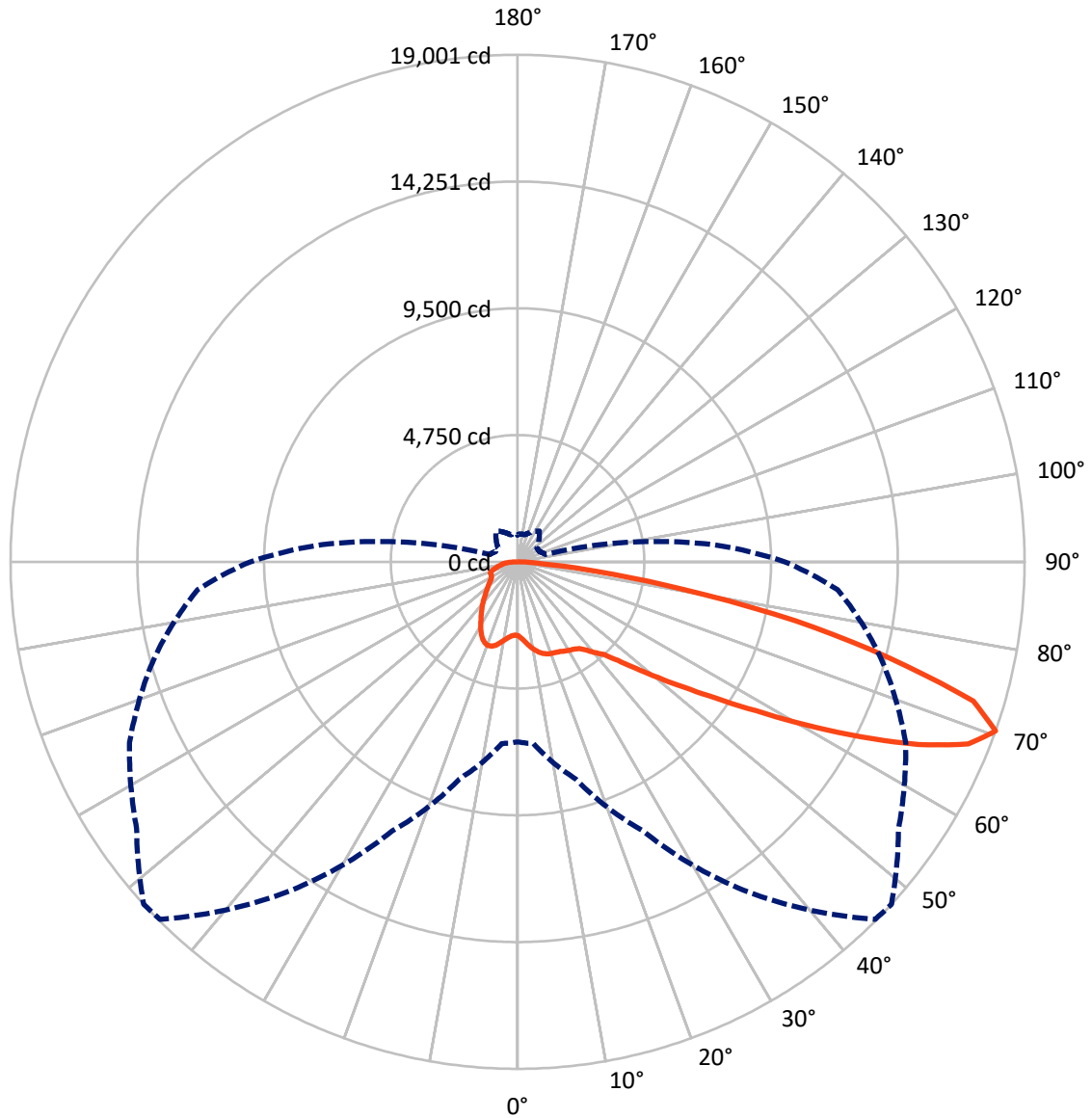
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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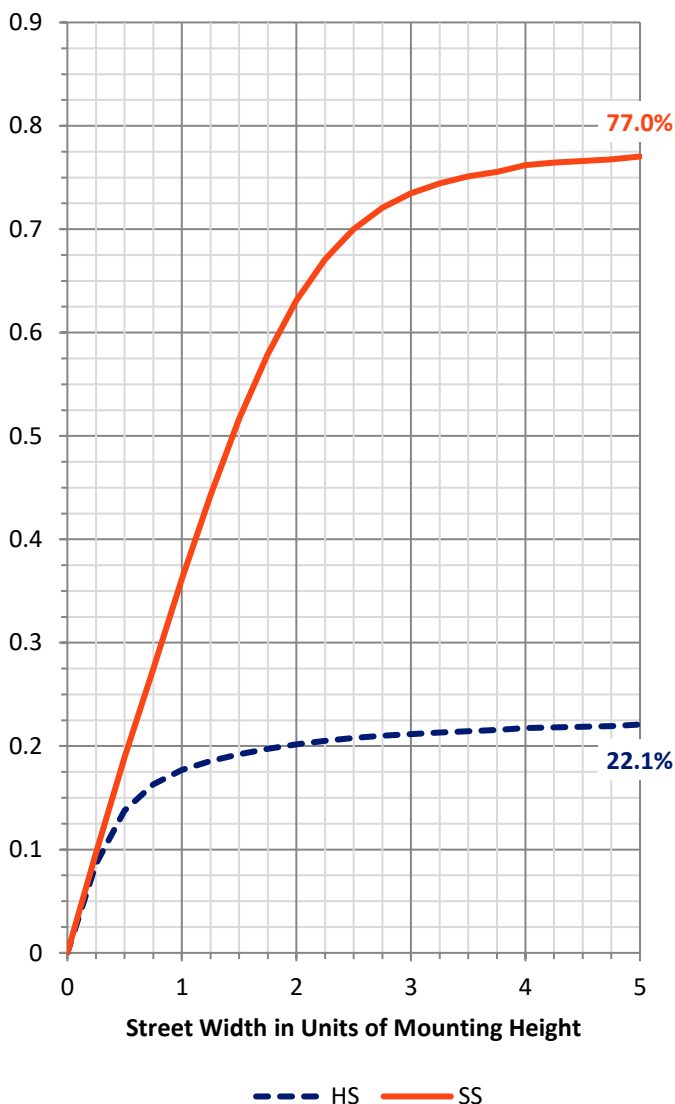
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6246.3	0.0	6246.3
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	21341.1	0.0	21341.1
	% Fixture	77.4	0.0	77.4
Total	Lumens	27587.4	0.0	27587.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	285.5	1.0
10°-20°	954.4	3.5
20°-30°	1587.1	5.8
30°-40°	2249.5	8.2
40°-50°	3320.7	12.0
50°-60°	5751.5	20.8
60°-70°	8124.2	29.4
70°-80°	4670.2	16.9
80°-90°	644.4	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°	27587.4	100.0
0°-180°	27587.4	100.0

Coefficient of Utilization

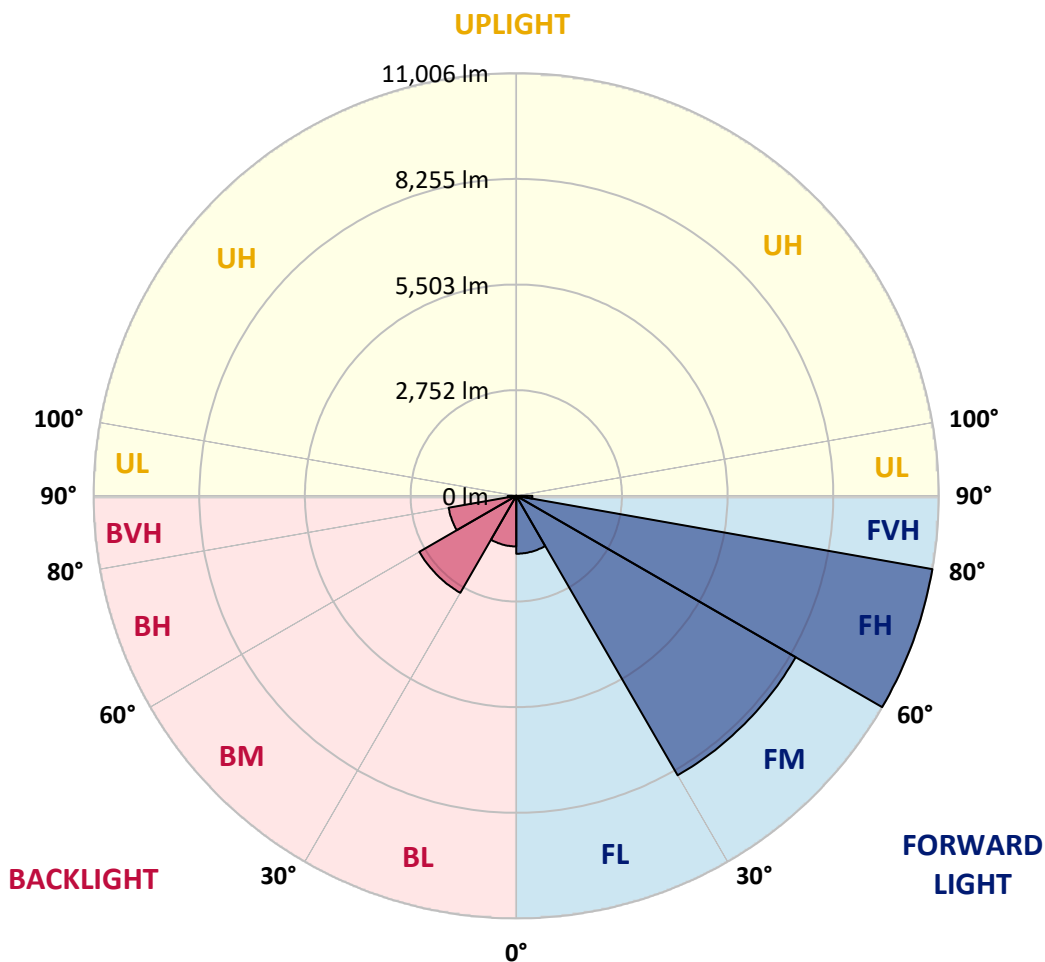


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1508.6	5.5			
FM (30°-60°)	8405.4	30.5			
FH (60°-80°)	11006.2	39.9			G4/12000
FVH (80°-90°)	420.9	1.5			G3/500
BL (0°-30°)	1318.3	4.8	B3/2500		
BM (30°-60°)	2916.3	10.6	B3/5000		
BH (60°-80°)	1788.2	6.5	B3/2500		G3/2500
BVH (80°-90°)	223.5	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°	2769.5	2769.5	2769.5	2769.5	2769.5	2769.5	2769.5	2769.5	2769.5	2769.5	2769.5
2.5°	2948.1	2937.7	2936.2	2914.1	2902.3	2880.2	2871.3	2850.7	2825.5	2800.5	2776.8
5°	3179.8	3179.8	3169.5	3138.5	3089.8	3039.6	3017.4	2977.6	2906.7	2849.2	2800.5
7.5°	3417.6	3420.5	3399.8	3354.1	3284.7	3203.5	3182.8	3123.8	3023.4	2939.2	2866.9
10°	3622.7	3622.7	3594.7	3532.7	3445.6	3357.0	3336.4	3269.9	3157.7	3052.9	2958.4
12.5°	3779.2	3779.2	3742.3	3661.1	3566.6	3486.9	3463.3	3399.8	3295.0	3178.4	3058.8
15°	3881.1	3873.7	3832.3	3740.8	3649.3	3579.9	3563.7	3510.5	3414.6	3296.4	3162.1
17.5°	3885.5	3882.5	3842.7	3765.9	3686.2	3639.0	3628.7	3593.2	3517.9	3405.7	3264.0
20°	3799.9	3805.8	3779.2	3724.6	3686.2	3665.5	3661.1	3649.3	3596.2	3491.3	3349.6
22.5°	3708.4	3718.7	3693.6	3664.0	3661.1	3681.7	3684.7	3687.7	3653.7	3551.8	3421.9
25°	3686.2	3693.6	3668.5	3641.9	3658.2	3712.8	3724.6	3736.4	3709.9	3624.2	3507.6
27.5°	3798.4	3792.5	3743.8	3686.2	3696.5	3770.4	3786.6	3799.9	3786.6	3712.8	3613.9
30°	4115.8	4096.6	3999.2	3830.9	3777.7	3829.4	3845.6	3882.5	3882.5	3827.9	3729.0
32.5°	4647.3	4610.3	4431.7	4101.0	3916.5	3885.5	3901.8	3962.3	3993.2	3950.5	3842.7
35°	5292.4	5254.0	4998.6	4554.2	4170.4	3997.7	3993.2	4061.2	4143.9	4047.9	3907.6
37.5°	5940.5	5900.6	5593.5	5094.5	4540.9	4233.9	4207.3	4230.9	4266.3	4090.7	3997.7
40°	6588.5	6541.3	6272.6	5698.4	4994.1	4546.9	4477.5	4371.2	4356.5	4230.9	4171.9
42.5°	7230.7	7187.9	7052.1	6375.9	5537.5	4852.4	4746.2	4563.1	4619.2	4543.9	4492.2
45°	7878.8	7881.7	7737.1	7136.2	6192.9	5416.4	5273.2	4986.8	5119.6	5091.6	5121.1
47.5°	8453.0	8445.6	8394.0	7874.3	7006.3	6142.7	5958.2	5626.0	5853.3	5956.7	6182.6
50°	9009.6	9005.1	9008.1	8711.3	7951.1	7006.3	6802.5	6454.2	6966.4	7325.1	7729.6
52.5°	9806.8	9831.8	9653.2	9575.0	9099.6	8026.4	7802.0	7441.8	8281.8	8847.2	9636.9
55°	10606.8	10586.2	10445.9	10527.1	10301.3	9233.9	8999.3	8712.8	9746.2	10364.7	11551.7
57.5°	11077.8	11085.2	11228.4	11625.5	11784.9	10739.7	10527.1	10305.7	11392.3	11830.7	13255.3
60°	11501.5	11535.4	11947.3	12697.2	13129.8	12589.5	12400.5	12185.0	12902.4	13076.6	14734.5
62.5°	11634.4	11739.1	12458.1	13580.0	14440.7	14676.9	14442.2	13966.8	14340.3	14272.4	15736.8
65°	10971.5	11114.7	12403.4	13910.7	15611.4	16658.0	16508.9	15626.1	15565.6	15156.7	15900.7
67.5°	9226.6	9369.8	11024.6	13216.9	16095.6	18373.4	18224.3	16836.6	16309.7	15239.4	14660.7
70°	6750.9	6840.9	8423.5	11128.0	15122.7	18949.1	19000.8	17427.2	16043.9	14115.9	12037.4
72.5°	3889.9	4089.2	5197.9	7828.6	12354.7	17493.6	17852.3	16198.9	14363.9	11776.1	8416.1
75°	1672.6	1677.0	2403.3	4318.0	8367.4	14061.3	14408.2	13428.0	11280.1	8143.0	4493.7
77.5°	795.7	810.5	1057.0	1928.0	4605.9	9715.2	10651.1	9486.4	7214.4	3912.1	1697.7
80°	516.7	527.0	646.6	956.6	2258.6	5633.4	6285.8	5472.5	3182.8	1398.0	732.2
82.5°	313.0	315.9	432.5	584.6	1243.0	2550.9	3007.1	2375.3	1358.1	837.0	431.0
85°	190.4	191.9	262.8	361.7	754.3	881.3	904.9	897.6	797.2	547.7	230.3
87.5°	91.5	94.5	135.9	171.2	296.8	273.1	258.3	299.7	376.5	295.3	98.9
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°	2769.5	2769.5	2769.5	2769.5	2769.5	2769.5	2769.5	2769.5	2769.5	2769.5	2769.5
2.5°	2766.5	2762.0	2751.7	2747.3	2744.3	2745.8	2744.3	2744.3	2745.8	2745.8	2745.8
5°	2779.8	2772.4	2756.2	2756.2	2765.0	2785.7	2804.9	2819.7	2835.9	2834.4	2834.4
7.5°	2837.4	2824.0	2804.9	2810.8	2832.9	2865.4	2899.4	2931.9	2964.3	2967.3	2965.8
10°	2921.5	2908.2	2887.5	2894.9	2930.4	2979.1	3021.9	3069.1	3104.6	3114.9	3112.0
12.5°	3017.4	2990.9	2973.2	2993.8	3049.9	3114.9	3156.2	3191.7	3216.7	3231.5	3225.6
15°	3114.9	3089.8	3069.1	3112.0	3179.8	3240.4	3261.0	3266.9	3271.4	3286.2	3283.2
17.5°	3209.4	3175.4	3168.0	3224.2	3289.1	3315.7	3303.9	3278.7	3259.6	3271.4	3269.9
20°	3293.5	3266.9	3264.0	3320.1	3345.2	3320.1	3269.9	3225.6	3191.7	3194.6	3193.2
22.5°	3373.2	3352.6	3355.5	3379.1	3339.3	3253.7	3171.0	3110.5	3073.6	3080.9	3085.3
25°	3461.8	3441.1	3448.5	3410.1	3278.7	3129.7	3010.1	2958.4	2943.6	2958.4	2968.7
27.5°	3577.0	3563.7	3559.2	3411.6	3171.0	2946.6	2810.8	2791.6	2804.9	2837.4	2853.6
30°	3700.9	3700.9	3677.4	3386.6	3023.4	2726.6	2608.6	2611.5	2657.3	2703.0	2719.3
32.5°	3820.6	3845.6	3771.8	3318.6	2832.9	2512.6	2422.5	2425.5	2465.4	2521.4	2536.2
35°	3919.5	3991.8	3853.0	3194.6	2608.6	2332.5	2264.6	2224.7	2226.2	2269.0	2280.8
37.5°	4055.2	4189.6	3900.3	3010.1	2369.4	2178.9	2102.2	2032.8	1987.0	1969.3	1969.3
40°	4291.5	4489.3	3912.1	2737.0	2143.5	2032.8	1923.5	1840.9	1752.3	1672.6	1657.8
42.5°	4691.5	4941.0	3888.5	2422.5	1939.8	1871.9	1765.6	1663.7	1541.2	1429.0	1420.1
45°	5400.1	5528.5	3825.0	2096.2	1758.2	1716.9	1613.5	1502.8	1372.9	1272.5	1265.2
47.5°	6535.4	6353.8	3740.8	1806.9	1592.9	1581.0	1501.3	1372.9	1243.0	1173.6	1166.2
50°	8193.2	7652.9	3729.0	1597.3	1460.0	1465.9	1400.9	1282.9	1169.2	1111.6	1102.8
52.5°	10189.1	9222.2	3807.3	1449.6	1343.4	1365.6	1333.1	1223.8	1123.4	1074.7	1065.8
55°	12125.9	10633.5	3854.5	1334.5	1234.2	1275.5	1279.9	1188.4	1096.8	1048.1	1042.3
57.5°	13698.1	11696.4	3644.9	1229.7	1139.7	1203.2	1235.7	1167.7	1083.6	1046.6	1040.8
60°	14792.0	12198.3	3048.5	1136.7	1070.3	1145.6	1219.4	1169.2	1116.0	1120.5	1123.4
62.5°	15140.4	11975.4	2286.8	1067.3	1023.1	1126.3	1246.0	1229.7	1175.1	1209.0	1215.0
65°	14563.3	11054.2	1657.8	1012.7	981.7	1139.7	1325.7	1274.0	1154.5	1179.5	1179.5
67.5°	12630.8	9523.3	1290.2	962.5	934.4	1164.8	1405.4	1269.6	1105.7	1135.3	1108.6
70°	10019.3	7366.5	1074.7	906.4	884.2	1127.8	1412.8	1223.8	1048.1	1054.1	1003.9
72.5°	6649.0	4843.6	924.1	853.2	807.5	1014.2	1352.2	1164.8	992.1	958.1	907.9
75°	3258.1	2415.2	806.0	786.8	707.1	882.8	1269.6	1108.6	931.5	878.4	850.3
77.5°	1262.2	1027.5	687.9	702.7	615.6	778.0	1160.3	1028.9	851.8	779.5	757.3
80°	612.6	583.1	563.9	586.1	506.4	662.8	1059.9	959.6	778.0	698.3	665.8
82.5°	380.9	360.2	432.5	456.2	389.7	605.3	1005.3	900.5	685.0	578.7	552.1
85°	193.4	206.7	289.3	311.5	279.0	481.2	828.2	676.1	494.5	410.4	413.3
87.5°	73.8	98.9	152.1	163.9	149.1	253.9	456.2	394.2	317.4	215.6	199.3
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)