

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P640157

Luminaire Tested: GWS-SA5D-730-U-T4W-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640157
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-52)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5D-730-U-T4W-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: (80) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27121.4 lumens
Efficiency: N/A
Efficacy: 132.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

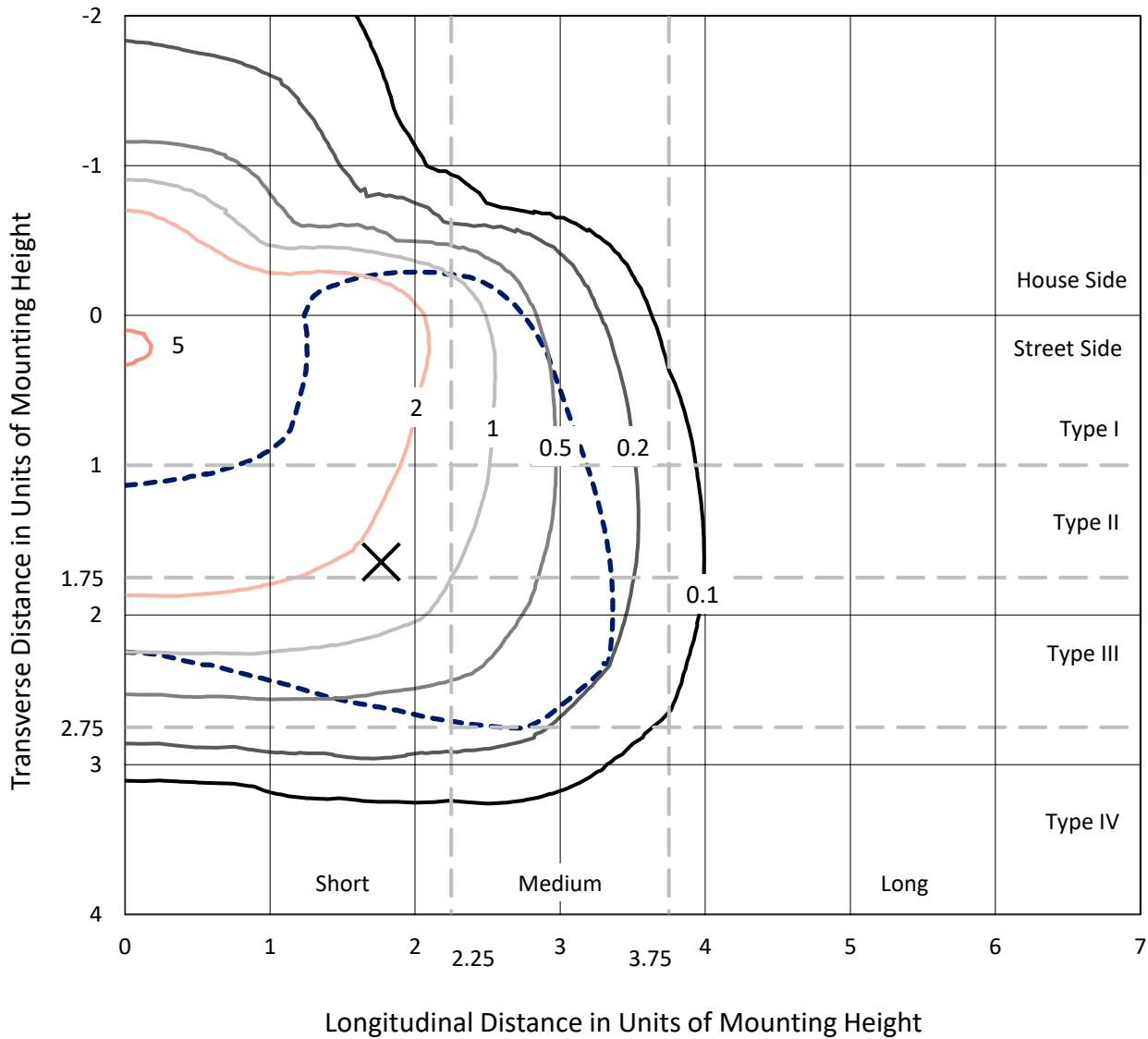
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

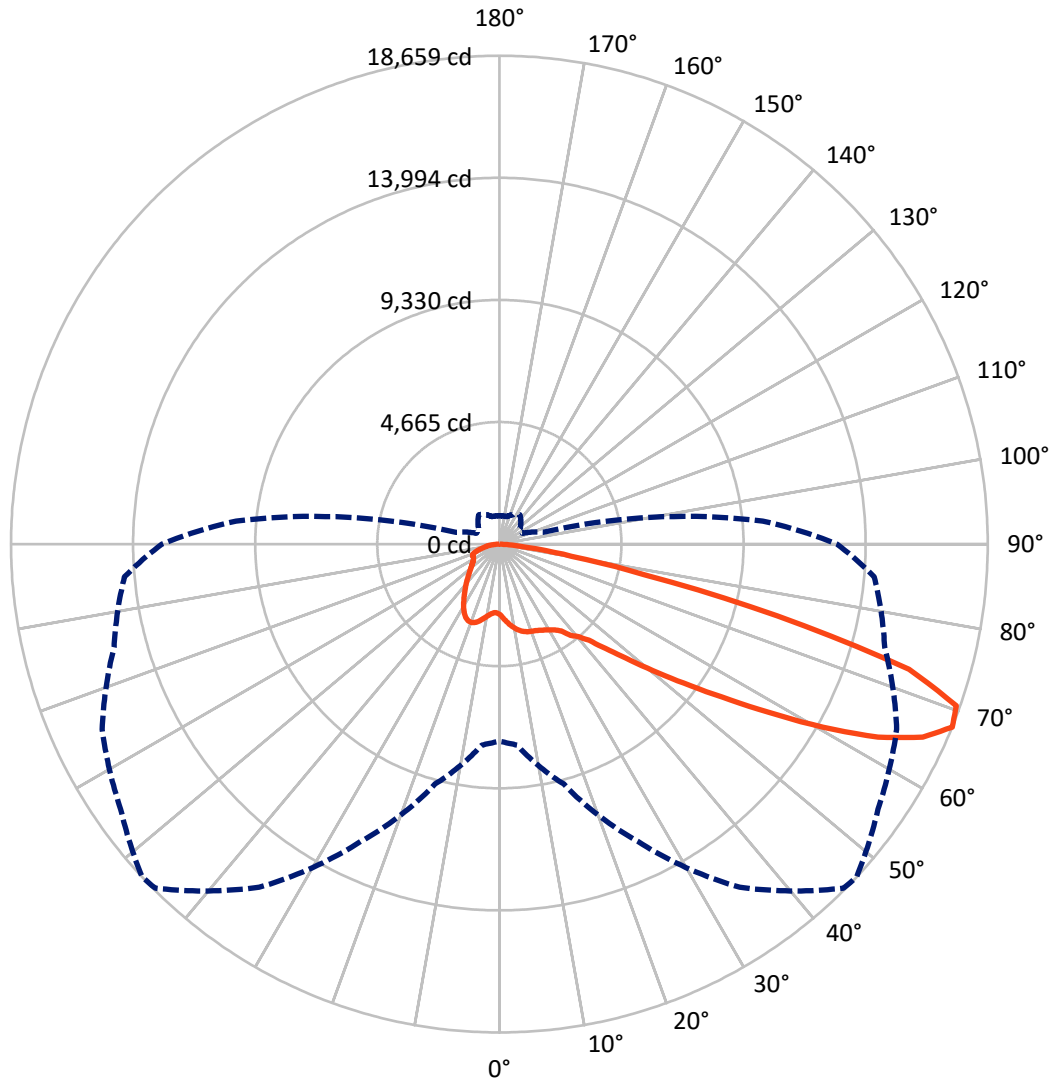
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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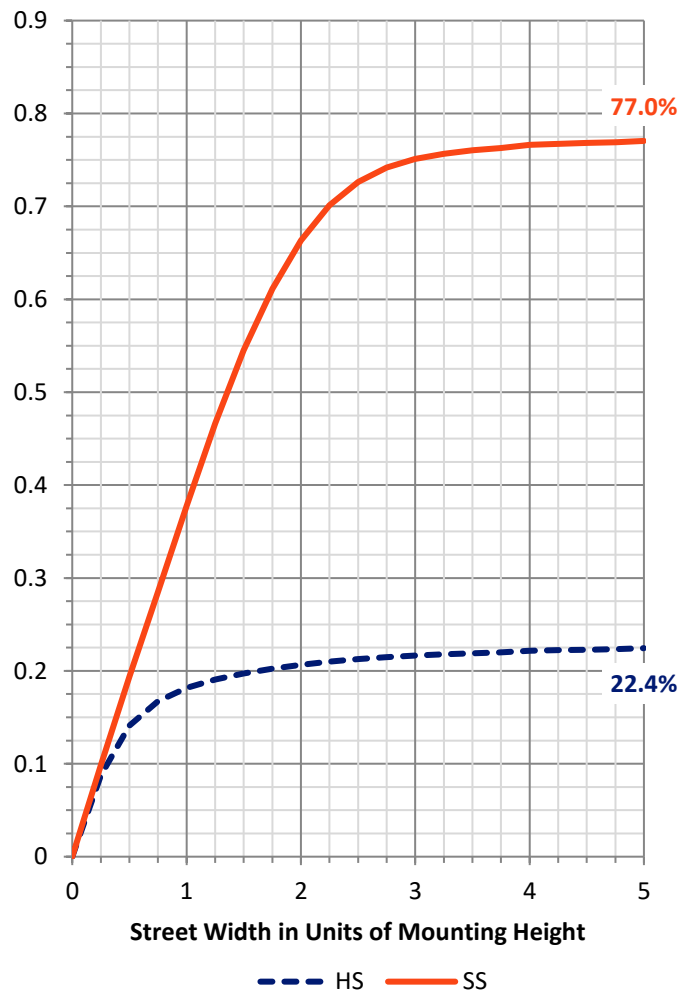
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6181.2	0.0	6181.2
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	20940.2	0.0	20940.2
	% Fixture	77.2	0.0	77.2
Total	Lumens	27121.4	0.0	27121.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.8	1.0
10°-20°	915.5	3.4
20°-30°	1556.0	5.7
30°-40°	2279.4	8.4
40°-50°	3473.0	12.8
50°-60°	6213.9	22.9
60°-70°	8291.8	30.6
70°-80°	3749.7	13.8
80°-90°	367.4	1.4
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°	27121.4	100.0
0°-180°	27121.4	100.0

Coefficient of Utilization



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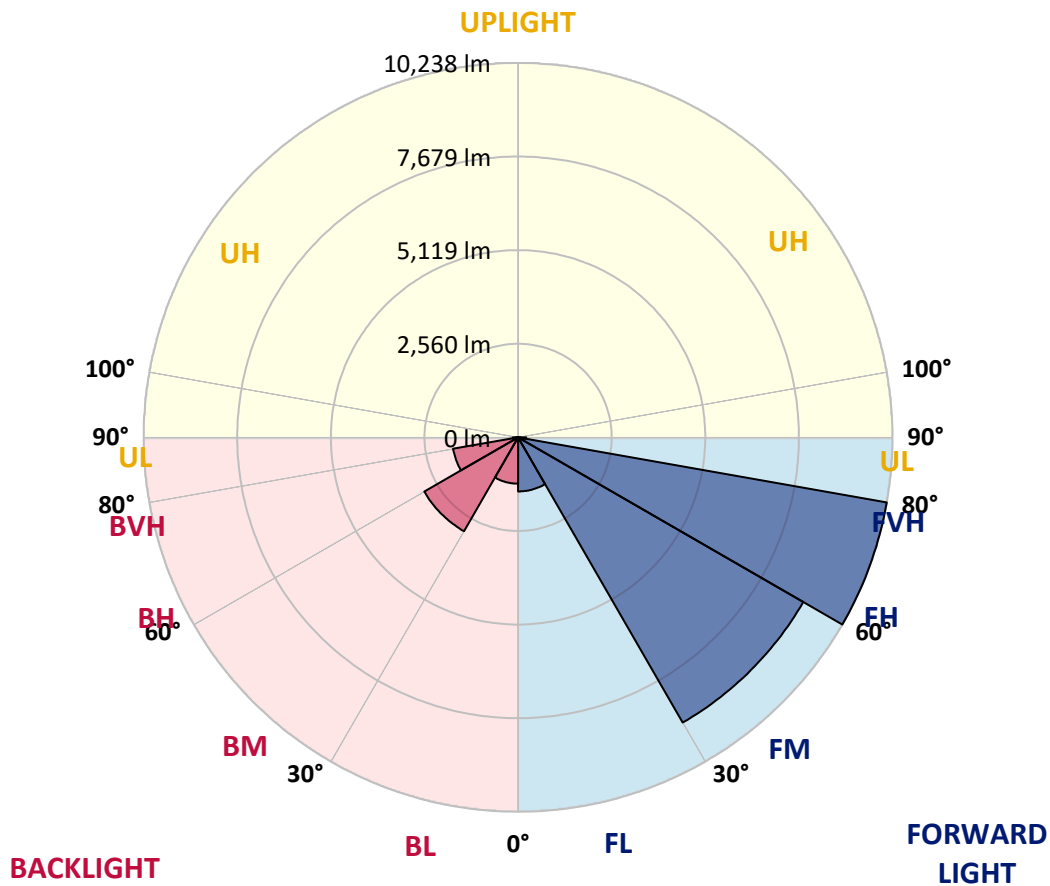
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1479.1	5.5			
FM (30°-60°)	9004.6	33.2			
FH (60°-80°)	10238.0	37.7			G4/12000
FVH (80°-90°)	218.5	0.8			G2/225
BL (0°-30°)	1267.2	4.7	B3/2500		
BM (30°-60°)	2961.7	10.9	B3/5000		
BH (60°-80°)	1803.5	6.6	B3/2500		G3/2500
BVH (80°-90°)	148.8	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-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	2688.6	2688.6	2688.6	2688.6	2688.6	2688.6	2688.6	2688.6	2688.6	2688.6	2688.6
2.5°	2867.0	2876.8	2874.9	2859.2	2849.4	2831.7	2833.7	2806.3	2765.1	2737.6	2706.2
5°	3120.0	3135.7	3116.1	3090.6	3051.4	2994.5	2988.6	2925.9	2847.4	2792.5	2735.7
7.5°	3339.7	3349.5	3325.9	3282.8	3225.9	3149.4	3135.7	3061.2	2963.1	2876.8	2794.5
10°	3510.3	3522.0	3490.7	3433.8	3359.3	3282.8	3273.0	3196.5	3092.6	2990.6	2886.7
12.5°	3655.4	3659.3	3626.0	3549.5	3469.1	3390.6	3380.8	3310.2	3214.1	3110.2	2996.5
15°	3739.7	3741.7	3700.5	3616.2	3539.7	3471.0	3465.2	3404.4	3316.1	3218.1	3096.5
17.5°	3733.8	3737.7	3708.3	3633.8	3567.1	3526.0	3520.1	3480.9	3412.2	3324.0	3202.4
20°	3661.3	3665.2	3645.6	3596.6	3561.3	3549.5	3551.4	3539.7	3498.5	3425.9	3302.4
22.5°	3604.4	3610.3	3592.6	3557.3	3553.4	3580.9	3586.7	3592.6	3573.0	3508.3	3388.7
25°	3631.9	3641.7	3614.2	3565.2	3573.0	3633.8	3645.6	3665.2	3649.5	3594.6	3490.7
27.5°	3822.1	3828.0	3757.4	3657.3	3633.8	3698.5	3716.2	3747.6	3735.8	3684.8	3604.4
30°	4263.3	4259.4	4108.4	3863.3	3765.2	3790.7	3804.4	3849.5	3853.4	3820.1	3743.6
32.5°	4885.0	4865.3	4632.0	4241.7	3957.4	3894.6	3910.3	3971.1	4016.2	3980.9	3877.0
35°	5541.9	5524.3	5267.4	4810.4	4312.3	4094.7	4077.0	4124.1	4192.7	4094.7	3945.6
37.5°	6167.5	6140.0	5877.2	5312.5	4749.6	4445.7	4420.2	4373.1	4331.9	4143.7	4029.9
40°	6861.7	6830.3	6600.9	5961.6	5232.1	4714.3	4649.6	4463.3	4426.1	4306.4	4249.6
42.5°	7603.0	7603.0	7412.7	6783.2	5814.5	5098.7	5014.4	4734.0	4773.2	4694.7	4628.1
45°	8344.2	8365.8	8214.8	7610.8	6593.0	5824.3	5689.0	5290.9	5385.0	5349.7	5316.4
47.5°	8975.7	9016.9	8987.5	8456.0	7546.1	6706.8	6500.9	6087.1	6289.1	6373.4	6467.5
50°	9656.2	9701.3	9671.9	9462.0	8661.9	7775.5	7591.2	7163.7	7510.8	7763.8	8071.7
52.5°	10666.1	10730.8	10485.7	10405.3	10017.0	8989.4	8824.7	8338.4	8967.8	9387.5	10073.9
55°	11519.2	11517.2	11430.9	11615.3	11472.1	10473.9	10291.6	9850.3	10654.3	11099.5	12103.6
57.5°	11915.3	11962.4	12258.5	12780.1	13066.4	12287.9	12113.4	11662.3	12464.4	12695.8	13780.2
60°	12119.2	12178.1	12750.7	13782.2	14552.9	14268.5	14199.9	13625.3	14076.4	14048.9	15194.2
62.5°	11832.9	11950.6	12870.3	14241.1	15613.8	16259.0	16237.4	15368.7	15447.1	15178.5	16070.7
65°	10519.0	10646.5	12089.8	14011.6	16219.8	17772.9	17778.8	16947.3	16500.2	15727.6	15923.7
67.5°	7522.6	7704.9	9489.5	12536.9	16006.0	18590.7	18659.3	17663.1	16747.3	15241.2	14378.4
70°	4100.5	4233.9	5632.1	9113.0	14080.3	18394.6	18522.0	17318.0	15657.0	13184.1	11068.1
72.5°	1863.0	1906.1	2620.0	5000.7	9618.9	15833.5	16366.9	15455.0	12858.6	9738.5	7038.2
75°	853.1	872.7	1141.3	2392.5	5026.2	10595.5	10970.1	11511.3	8948.2	6149.8	3669.1
77.5°	535.4	541.2	649.1	1094.3	2506.2	5288.9	5683.1	6853.8	5239.9	3043.5	1533.5
80°	315.7	321.6	404.0	592.2	1176.6	2419.9	2794.5	2710.2	2463.1	1313.9	698.1
82.5°	158.8	164.7	233.4	337.3	641.3	962.9	1133.5	1139.4	917.8	711.9	394.2
85°	56.9	58.8	76.5	133.4	272.6	317.7	354.9	433.4	449.1	413.8	190.2
87.5°	0.0	0.0	2.0	3.9	7.8	31.4	33.3	62.8	131.4	147.1	76.5
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°	2688.6	2688.6	2688.6	2688.6	2688.6	2688.6	2688.6	2688.6	2688.6	2688.6	2688.6
2.5°	2696.4	2667.0	2657.2	2647.4	2631.7	2625.8	2614.1	2602.3	2602.3	2590.5	2584.7
5°	2710.2	2670.9	2645.4	2633.7	2623.9	2629.8	2629.8	2633.7	2647.4	2639.6	2643.5
7.5°	2759.2	2714.1	2678.8	2669.0	2669.0	2692.5	2708.2	2727.8	2753.3	2757.2	2757.2
10°	2845.5	2792.5	2755.3	2749.4	2759.2	2792.5	2816.1	2839.6	2871.0	2872.9	2876.8
12.5°	2939.6	2886.7	2849.4	2857.2	2867.0	2910.2	2935.7	2955.3	2986.7	2986.7	2984.7
15°	3037.7	2978.8	2947.4	2963.1	2992.6	3041.6	3045.5	3047.5	3063.1	3059.2	3057.3
17.5°	3139.6	3076.9	3053.3	3076.9	3108.3	3131.8	3112.2	3084.7	3078.8	3071.0	3067.1
20°	3239.6	3174.9	3165.1	3182.8	3192.6	3173.0	3112.2	3061.2	3037.7	3025.9	3022.0
22.5°	3325.9	3271.0	3265.1	3265.1	3216.1	3147.5	3057.3	2988.6	2957.3	2941.6	2937.6
25°	3427.9	3376.9	3367.1	3314.2	3188.7	3063.1	2941.6	2878.8	2853.3	2845.5	2847.4
27.5°	3547.5	3512.2	3480.9	3329.8	3110.2	2914.1	2776.8	2749.4	2739.6	2749.4	2755.3
30°	3694.6	3659.3	3588.7	3310.2	2984.7	2720.0	2588.6	2586.6	2616.0	2641.5	2645.4
32.5°	3814.2	3798.5	3682.8	3247.5	2808.2	2506.2	2394.4	2402.3	2455.2	2490.5	2496.4
35°	3908.4	3933.9	3761.3	3143.6	2598.4	2304.2	2216.0	2219.9	2249.3	2298.3	2300.3
37.5°	4041.7	4128.0	3831.9	2984.7	2357.2	2129.7	2049.3	2019.9	2016.0	2029.7	2033.6
40°	4310.4	4439.8	3882.9	2753.3	2123.8	1972.8	1882.6	1825.7	1776.7	1739.4	1727.7
42.5°	4716.3	4865.3	3912.3	2472.9	1915.9	1817.9	1715.9	1643.4	1557.1	1478.6	1451.2
45°	5461.5	5510.5	3912.3	2174.8	1731.6	1672.8	1570.8	1484.5	1374.7	1282.5	1262.9
47.5°	6653.8	6496.9	3916.2	1886.5	1568.8	1545.3	1457.1	1359.0	1237.4	1160.9	1149.2
50°	8450.1	7899.1	3996.6	1647.3	1433.5	1437.4	1372.7	1264.9	1155.1	1098.2	1088.4
52.5°	10485.7	9626.8	4212.3	1470.8	1319.8	1349.2	1313.9	1210.0	1111.9	1062.9	1053.1
55°	12399.7	11215.2	4396.7	1345.3	1223.7	1274.7	1272.7	1176.6	1088.4	1039.4	1033.5
57.5°	14027.3	12303.6	4369.2	1243.3	1141.3	1206.0	1235.5	1155.1	1072.7	1031.5	1025.6
60°	15039.2	12880.1	3979.0	1149.2	1078.6	1157.0	1213.9	1149.2	1080.5	1070.7	1072.7
62.5°	15478.5	12774.2	3229.8	1078.6	1037.4	1133.5	1237.4	1190.4	1153.1	1176.6	1190.4
65°	14796.1	11864.3	2376.8	1025.6	998.2	1139.4	1292.3	1255.1	1153.1	1168.8	1174.7
67.5°	12901.7	10099.4	1717.9	972.7	949.1	1157.0	1370.8	1245.3	1086.4	1086.4	1074.7
70°	9297.3	7263.7	1247.2	919.7	900.1	1131.5	1374.7	1178.6	1009.9	1004.1	974.6
72.5°	5594.9	4284.9	972.7	860.9	825.6	1004.1	1288.4	1100.1	935.4	886.4	851.1
75°	2906.3	2147.3	815.8	796.2	707.9	851.1	1178.6	978.6	800.1	757.0	737.4
77.5°	1245.3	1004.1	700.1	709.9	588.3	715.8	951.1	847.2	709.9	655.0	637.3
80°	613.8	570.7	553.0	568.7	470.7	553.0	819.7	741.3	602.0	539.3	513.8
82.5°	351.0	333.4	398.1	404.0	335.3	462.8	692.2	627.5	498.1	429.5	388.3
85°	162.8	174.5	241.2	243.2	207.9	317.7	453.0	353.0	264.7	219.6	209.8
87.5°	64.7	76.5	105.9	103.9	60.8	58.8	39.2	21.6	17.6	15.7	13.7
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)