

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: P642962

Luminaire Tested: GWS-SA6D-830-U-T4W-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642962  
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-SA6D-830-U-T4W-W  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: (96) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

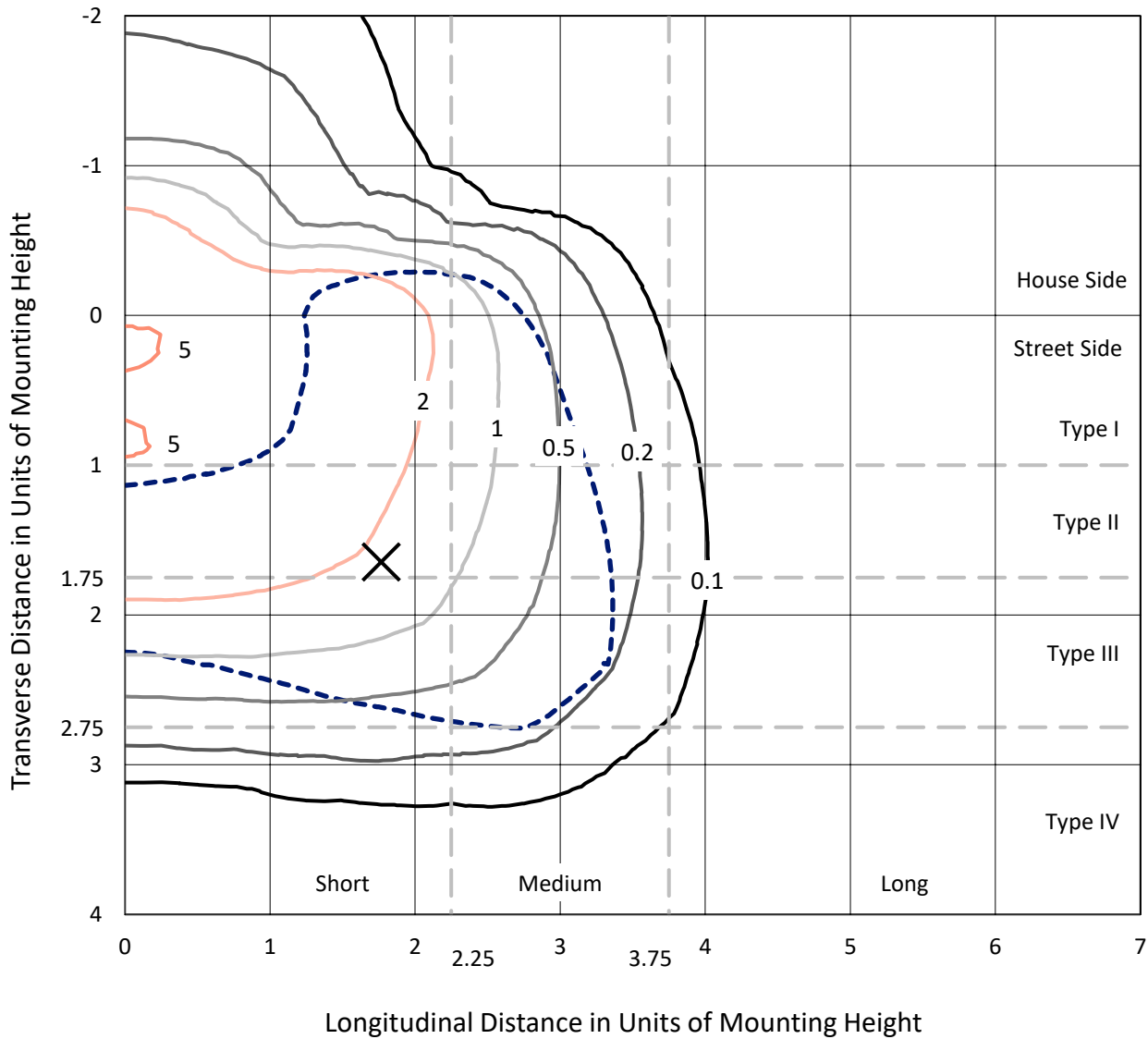
Lumens per Lamp: N/A  
Luminaire Lumens: 28212.5 lumens  
Efficiency: N/A  
Efficacy: 114.8 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 245.7  
Input Voltage (V): 120  
Input Current (Ain): 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

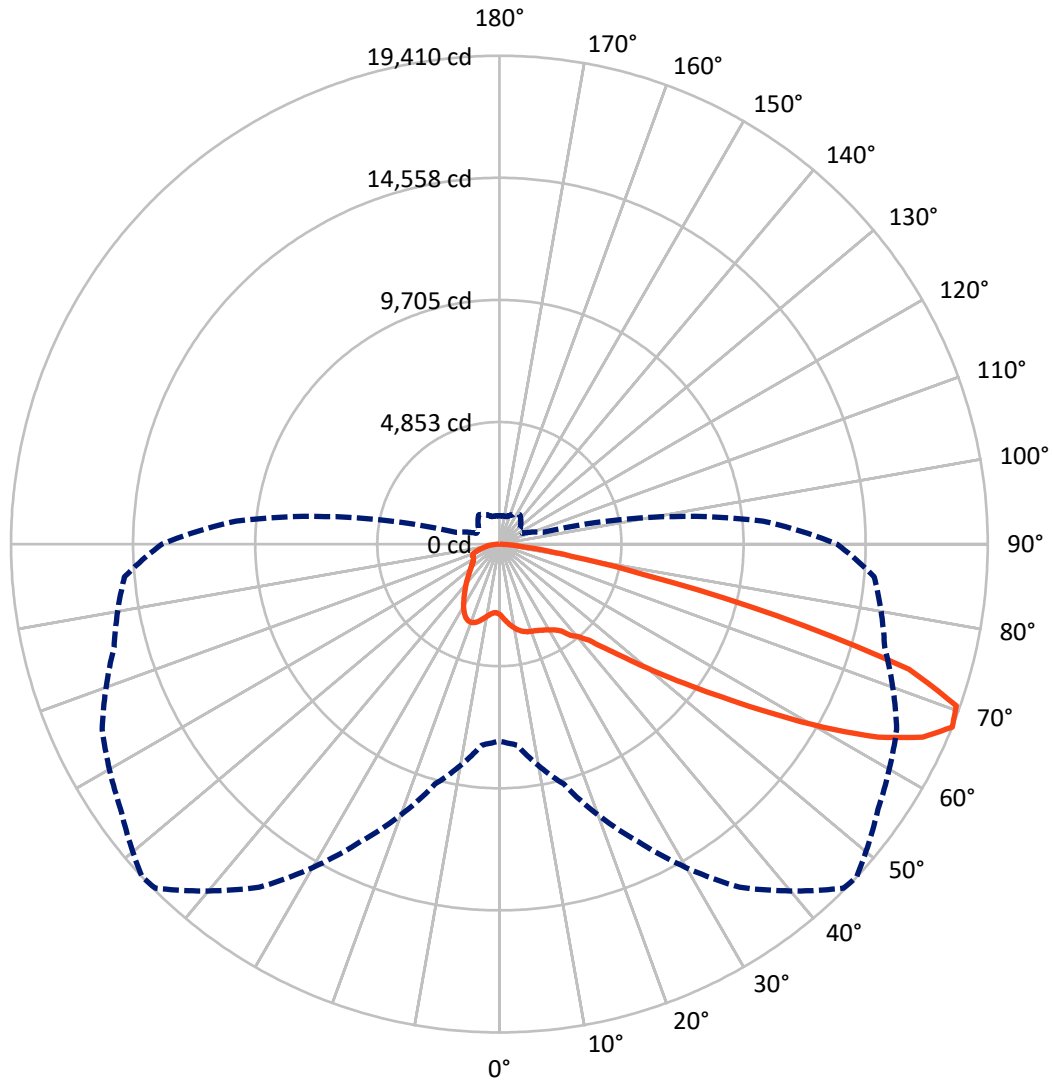
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 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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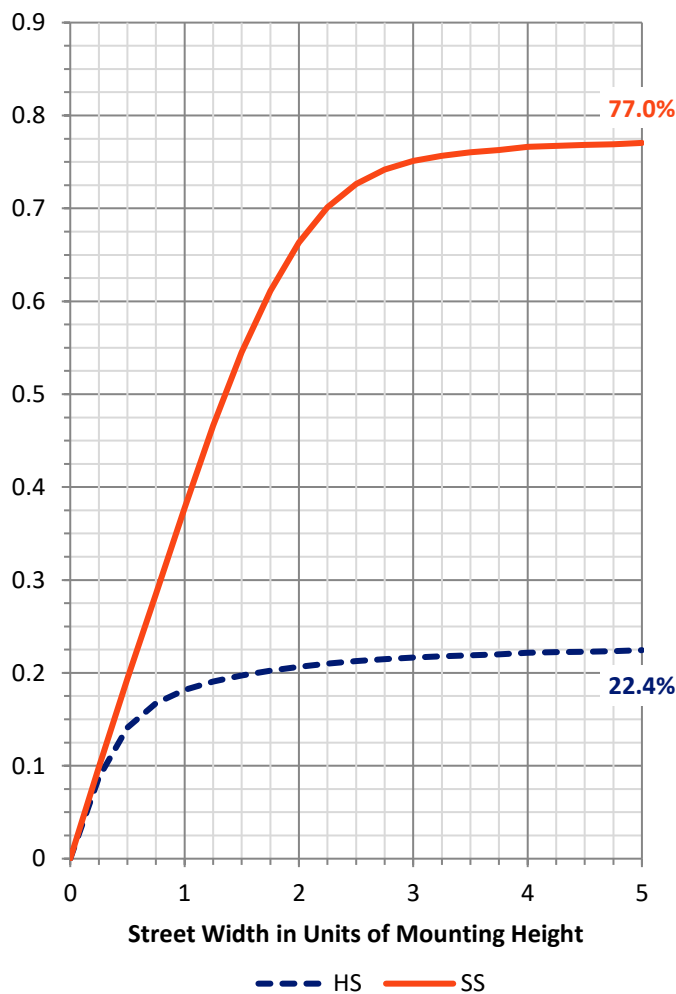
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6429.8	0.0	6429.8
	% Fixture	22.8	0.0	22.8
<b>Street Side</b>	Lumens	21782.7	0.0	21782.7
	% Fixture	77.2	0.0	77.2
<b>Total</b>	Lumens	28212.5	0.0	28212.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	285.8	1.0
10°-20°	952.3	3.4
20°-30°	1618.6	5.7
30°-40°	2371.1	8.4
40°-50°	3612.7	12.8
50°-60°	6463.9	22.9
60°-70°	8625.3	30.6
70°-80°	3900.6	13.8
80°-90°	382.2	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°	28212.5	100.0
0°-180°	28212.5	100.0

**Coefficient of Utilization**



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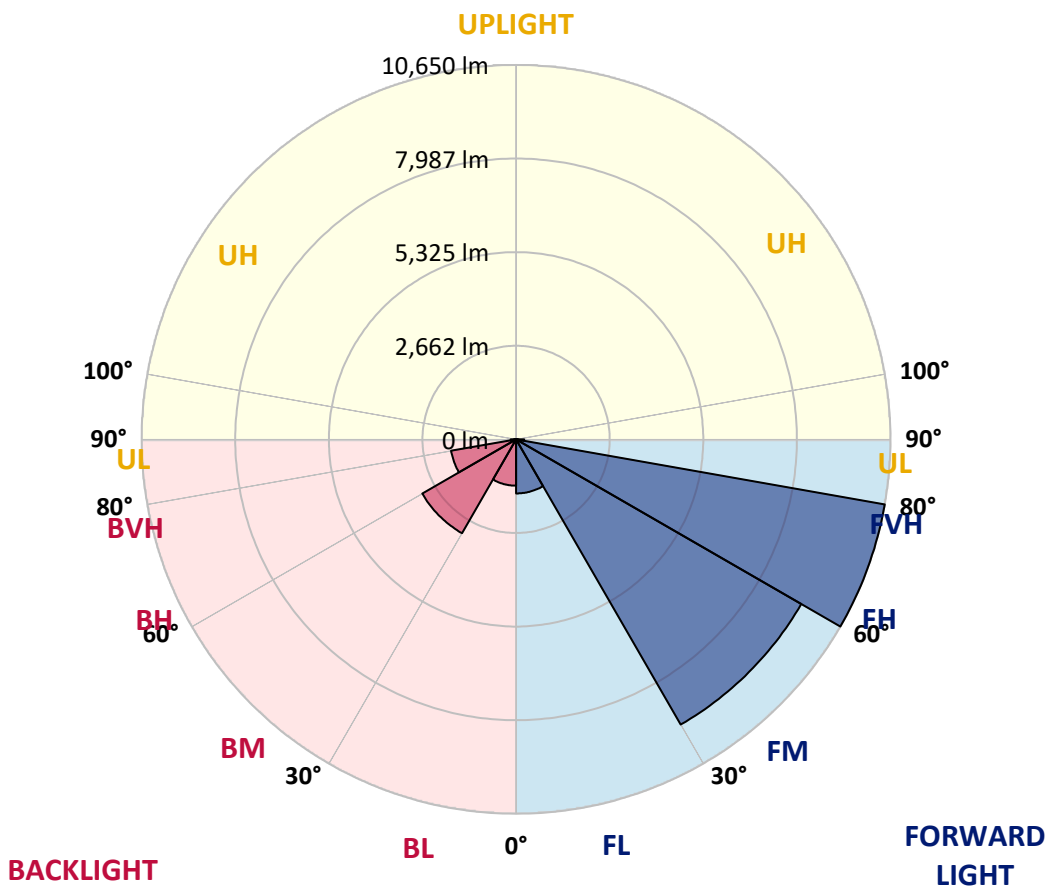
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1538.6	5.5			
FM (30°-60°)	9366.8	33.2			
FH (60°-80°)	10649.9	37.7			G4/12000
FVH (80°-90°)	227.3	0.8			G3/500
BL (0°-30°)	1318.1	4.7	B3/2500		
BM (30°-60°)	3080.9	10.9	B3/5000		
BH (60°-80°)	1876.0	6.6	B3/2500		G3/2500
BVH (80°-90°)	154.8	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°	2796.8	2796.8	2796.8	2796.8	2796.8	2796.8	2796.8	2796.8	2796.8	2796.8	2796.8
2.5°	2982.4	2992.6	2990.5	2974.2	2964.0	2945.7	2947.7	2919.1	2876.3	2847.7	2815.1
5°	3245.5	3261.9	3241.5	3214.9	3174.1	3115.0	3108.9	3043.6	2962.0	2904.9	2845.7
7.5°	3474.0	3484.2	3459.7	3414.9	3355.7	3276.1	3261.9	3184.3	3082.3	2992.6	2906.9
10°	3651.5	3663.7	3631.1	3571.9	3494.4	3414.9	3404.7	3325.1	3217.0	3110.9	3002.8
12.5°	3802.4	3806.5	3771.8	3692.3	3608.6	3527.0	3516.8	3443.4	3343.5	3235.3	3117.0
15°	3890.2	3892.2	3849.4	3761.6	3682.1	3610.7	3604.6	3541.3	3449.5	3347.5	3221.1
17.5°	3884.0	3888.1	3857.5	3780.0	3710.6	3667.8	3661.7	3620.9	3549.5	3457.7	3331.2
20°	3808.6	3812.6	3792.2	3741.2	3704.5	3692.3	3694.3	3682.1	3639.2	3563.8	3435.3
22.5°	3749.4	3755.5	3737.2	3700.4	3696.4	3724.9	3731.0	3737.2	3716.8	3649.4	3525.0
25°	3778.0	3788.2	3759.6	3708.6	3716.8	3780.0	3792.2	3812.6	3796.3	3739.2	3631.1
27.5°	3975.8	3982.0	3908.5	3804.5	3780.0	3847.3	3865.7	3898.3	3886.1	3833.0	3749.4
30°	4434.8	4430.7	4273.7	4018.7	3916.7	3943.2	3957.5	4004.4	4008.5	3973.8	3894.2
32.5°	5081.5	5061.1	4818.3	4412.4	4116.6	4051.3	4067.6	4130.9	4177.8	4141.1	4033.0
35°	5764.9	5746.5	5479.3	5004.0	4485.8	4259.4	4241.0	4290.0	4361.4	4259.4	4104.4
37.5°	6415.6	6387.0	6113.7	5526.2	4940.7	4624.5	4598.0	4549.1	4506.2	4310.4	4192.1
40°	7137.7	7105.1	6866.4	6201.4	5442.5	4904.0	4836.7	4642.9	4604.1	4479.7	4420.5
42.5°	7908.8	7908.8	7711.0	7056.1	6048.4	5303.8	5216.1	4924.4	4965.2	4883.6	4814.2
45°	8679.9	8702.4	8545.3	7917.0	6858.3	6058.6	5917.9	5503.7	5601.7	5564.9	5530.3
47.5°	9336.8	9379.6	9349.0	8796.2	7849.7	6976.6	6762.4	6332.0	6542.1	6629.8	6727.7
50°	10044.6	10091.6	10061.0	9842.7	9010.4	8088.3	7896.6	7451.9	7813.0	8076.1	8396.4
52.5°	11095.2	11162.5	10907.5	10823.9	10420.0	9351.1	9179.7	8673.8	9328.6	9765.2	10479.1
55°	11982.6	11980.5	11890.8	12082.5	11933.6	10895.3	10705.6	10246.6	11083.0	11546.0	12590.5
57.5°	12394.6	12443.6	12751.6	13294.3	13592.1	12782.2	12600.7	12131.5	12965.8	13206.5	14334.6
60°	12606.8	12668.0	13263.7	14336.7	15138.4	14842.6	14771.2	14173.5	14642.7	14614.1	15805.4
62.5°	12309.0	12431.4	13388.1	14814.0	16242.0	16913.1	16890.7	15987.0	16068.6	15789.1	16717.3
65°	10942.2	11074.8	12576.2	14575.3	16872.3	18487.9	18494.1	17629.1	17164.0	16360.3	16564.3
67.5°	7825.2	8014.9	9871.2	13041.3	16650.0	19338.6	19410.0	18373.7	17421.0	15854.4	14956.8
70°	4265.5	4404.2	5858.7	9479.6	14646.7	19134.6	19267.2	18014.7	16286.8	13714.5	11513.4
72.5°	1937.9	1982.8	2725.4	5201.8	10005.9	16470.4	17025.3	16076.7	13375.9	10130.3	7321.3
75°	887.4	907.8	1187.2	2488.7	5228.4	11021.8	11411.4	11974.4	9308.2	6397.2	3816.7
77.5°	556.9	563.0	675.2	1138.3	2607.0	5501.7	5911.7	7129.6	5450.7	3166.0	1595.2
80°	328.4	334.5	420.2	616.1	1224.0	2517.3	2906.9	2819.2	2562.2	1366.8	726.2
82.5°	165.2	171.4	242.8	350.9	667.1	1001.6	1179.1	1185.2	954.7	740.5	410.0
85°	59.2	61.2	79.6	138.7	283.6	330.5	369.2	450.8	467.1	430.4	197.9
87.5°	0.0	0.0	2.0	4.1	8.2	32.6	34.7	65.3	136.7	153.0	79.6
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°	2796.8	2796.8	2796.8	2796.8	2796.8	2796.8	2796.8	2796.8	2796.8	2796.8	2796.8
2.5°	2804.9	2774.3	2764.1	2753.9	2737.6	2731.5	2719.2	2707.0	2707.0	2694.8	2688.6
5°	2819.2	2778.4	2751.9	2739.6	2729.4	2735.6	2735.6	2739.6	2753.9	2745.8	2749.8
7.5°	2870.2	2823.3	2786.6	2776.4	2776.4	2800.8	2817.2	2837.6	2864.1	2868.1	2868.1
10°	2959.9	2904.9	2866.1	2860.0	2870.2	2904.9	2929.3	2953.8	2986.5	2988.5	2992.6
12.5°	3057.9	3002.8	2964.0	2972.2	2982.4	3027.3	3053.8	3074.2	3106.8	3106.8	3104.8
15°	3159.9	3098.7	3066.0	3082.3	3112.9	3163.9	3168.0	3170.1	3186.4	3182.3	3180.3
17.5°	3265.9	3200.7	3176.2	3200.7	3233.3	3257.8	3237.4	3208.8	3202.7	3194.5	3190.5
20°	3370.0	3302.7	3292.5	3310.8	3321.0	3300.6	3237.4	3184.3	3159.9	3147.6	3143.5
22.5°	3459.7	3402.6	3396.5	3396.5	3345.5	3274.1	3180.3	3108.9	3076.2	3059.9	3055.8
25°	3565.8	3512.8	3502.6	3447.5	3316.9	3186.4	3059.9	2994.6	2968.1	2959.9	2962.0
27.5°	3690.2	3653.5	3620.9	3463.8	3235.3	3031.3	2888.5	2860.0	2849.8	2860.0	2866.1
30°	3843.2	3806.5	3733.1	3443.4	3104.8	2829.4	2692.7	2690.7	2721.3	2747.8	2751.9
32.5°	3967.7	3951.4	3831.0	3378.1	2921.2	2607.0	2490.8	2498.9	2554.0	2590.7	2596.8
35°	4065.6	4092.1	3912.6	3270.0	2702.9	2396.9	2305.1	2309.2	2339.8	2390.8	2392.8
37.5°	4204.3	4294.1	3986.0	3104.8	2452.0	2215.4	2131.7	2101.1	2097.1	2111.3	2115.4
40°	4483.8	4618.4	4039.1	2864.1	2209.3	2052.2	1958.3	1899.2	1848.2	1809.4	1797.2
42.5°	4906.0	5061.1	4069.7	2572.4	1993.0	1891.0	1784.9	1709.5	1619.7	1538.1	1509.6
45°	5681.2	5732.2	4069.7	2262.3	1801.3	1740.1	1634.0	1544.2	1430.0	1334.1	1313.7
47.5°	6921.5	6758.3	4073.8	1962.4	1631.9	1607.5	1515.7	1413.7	1287.2	1207.6	1195.4
50°	8790.1	8216.9	4157.4	1713.5	1491.2	1495.3	1428.0	1315.8	1201.5	1142.4	1132.2
52.5°	10907.5	10014.0	4381.8	1530.0	1372.9	1403.5	1366.8	1258.6	1156.6	1105.6	1095.4
55°	12898.5	11666.4	4573.5	1399.4	1272.9	1326.0	1323.9	1224.0	1132.2	1081.2	1075.0
57.5°	14591.7	12798.6	4545.0	1293.3	1187.2	1254.6	1285.2	1201.5	1115.8	1073.0	1066.9
60°	15644.3	13398.3	4139.0	1195.4	1122.0	1203.6	1262.7	1195.4	1124.0	1113.8	1115.8
62.5°	16101.2	13288.1	3359.8	1122.0	1079.1	1179.1	1287.2	1238.2	1199.5	1224.0	1238.2
65°	15391.3	12341.6	2472.4	1066.9	1038.3	1185.2	1344.3	1305.6	1199.5	1215.8	1221.9
67.5°	13420.7	10505.7	1787.0	1011.8	987.3	1203.6	1425.9	1295.4	1130.1	1130.1	1117.9
70°	9671.3	7555.9	1297.4	956.7	936.3	1177.0	1430.0	1226.0	1050.6	1044.4	1013.8
72.5°	5819.9	4457.3	1011.8	895.5	858.8	1044.4	1340.2	1144.4	973.0	922.1	885.3
75°	3023.2	2233.7	848.6	828.2	736.4	885.3	1226.0	1017.9	832.3	787.4	767.0
77.5°	1295.4	1044.4	728.3	738.5	612.0	744.6	989.4	881.3	738.5	681.3	663.0
80°	638.5	593.6	575.3	591.6	489.6	575.3	852.7	771.1	626.3	561.0	534.5
82.5°	365.1	346.8	414.1	420.2	348.8	481.4	720.1	652.8	518.1	446.7	403.9
85°	169.3	181.6	250.9	253.0	216.2	330.5	471.2	367.2	275.4	228.5	218.3
87.5°	67.3	79.6	110.2	108.1	63.2	61.2	40.8	22.4	18.4	16.3	14.3
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)