

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: P640542

Luminaire Tested: GWS-SA5E-722-U-T4W-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640542  
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-SA5E-722-U-T4W-W  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: (80) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

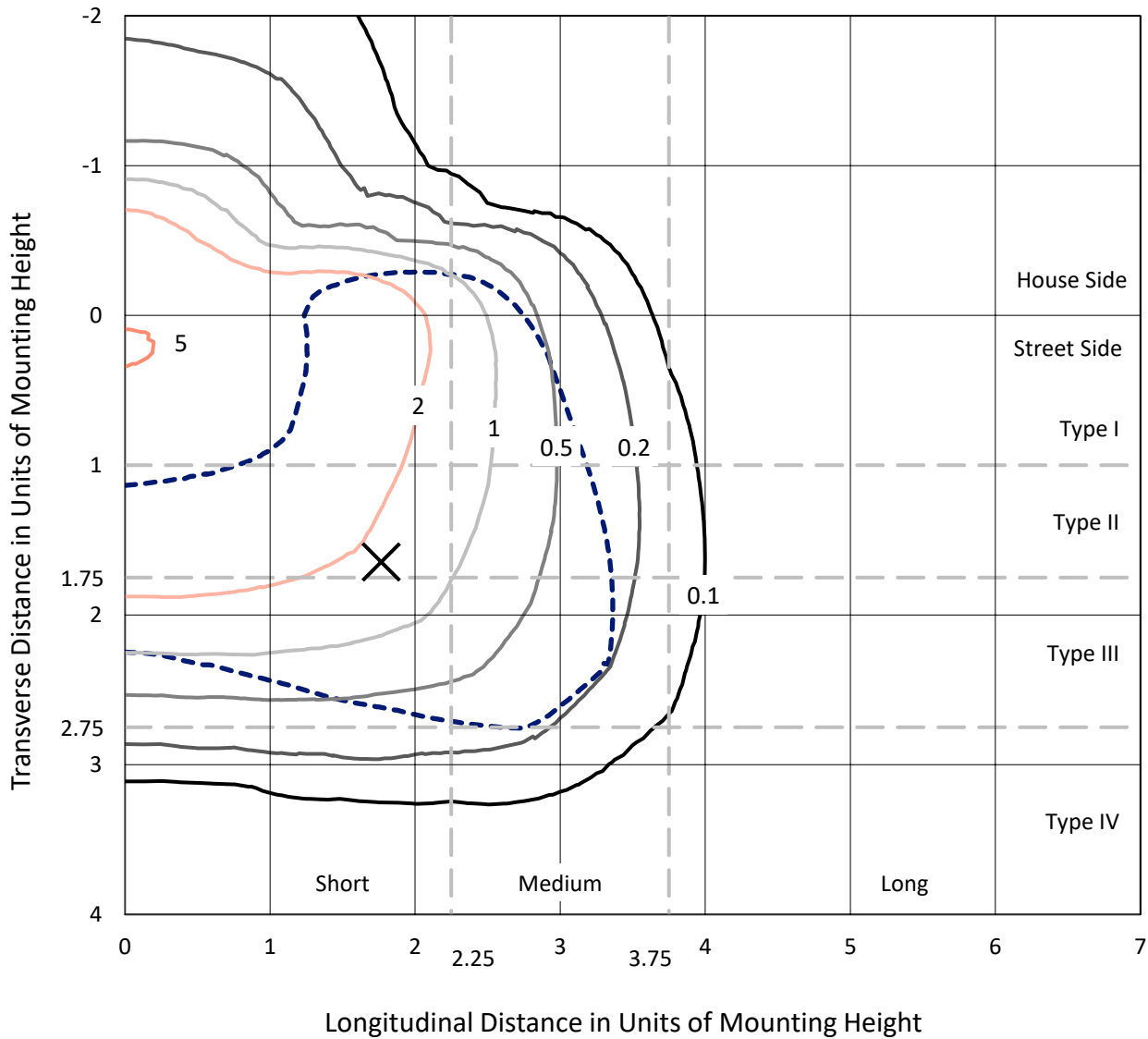
Lumens per Lamp: N/A  
Luminaire Lumens: 27415.4 lumens  
Efficiency: N/A  
Efficacy: 101.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 269.6  
Input Voltage (V): 120  
Input Current (Ain): 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

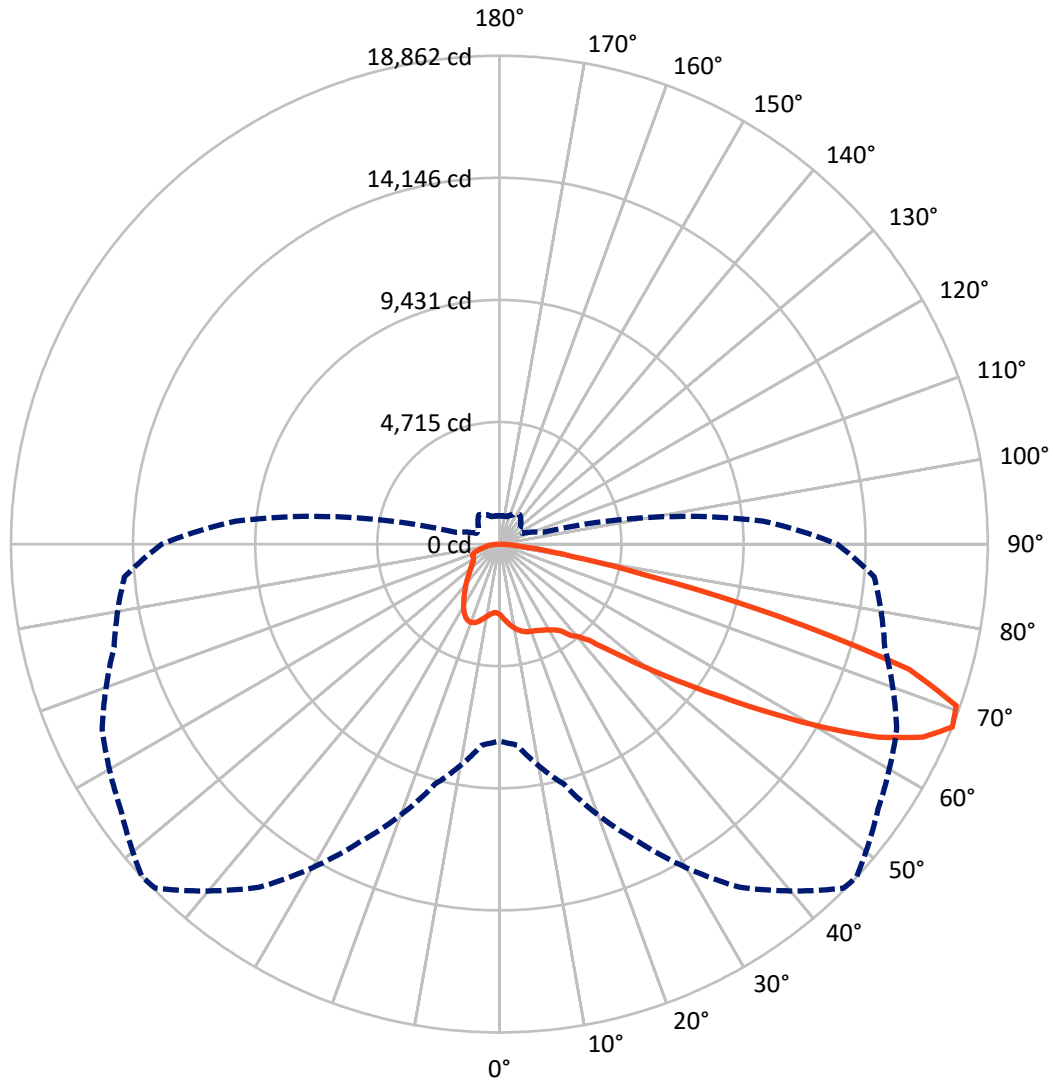
✕ Max cd  
 - - - 1/2 Max cd



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

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CATALOG NUMBER: GWS-SA5E-722-U-T4W-W

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P640542

CATALOG NUMBER: GWS-SA5E-722-U-T4W-W

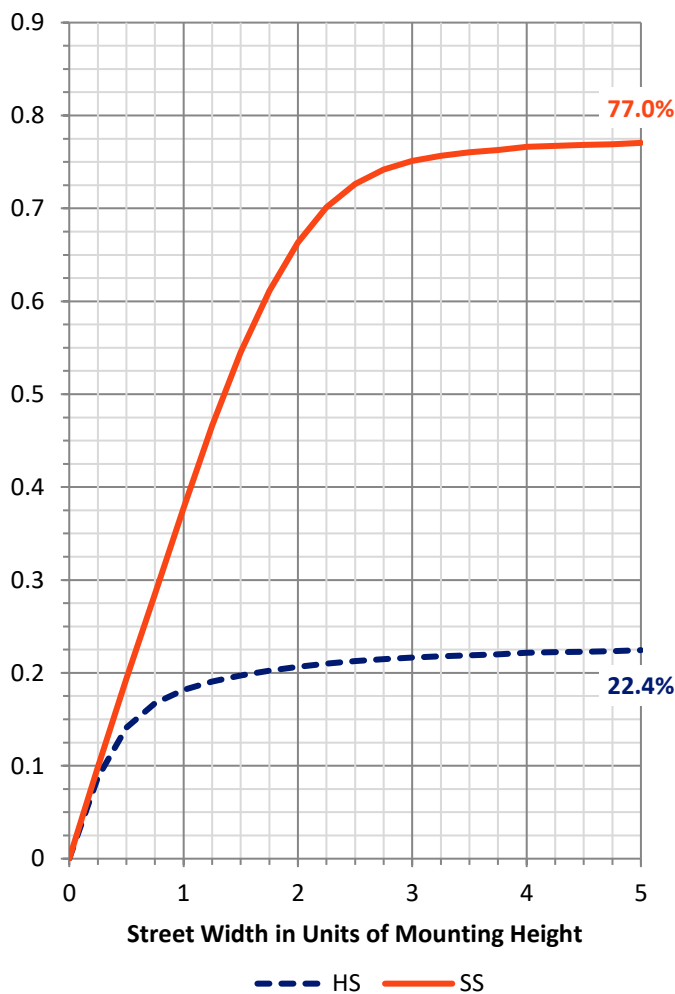
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6248.2	0.0	6248.2
	% Fixture	22.8	0.0	22.8
<b>Street Side</b>	Lumens	21167.2	0.0	21167.2
	% Fixture	77.2	0.0	77.2
<b>Total</b>	Lumens	27415.4	0.0	27415.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	277.8	1.0
10°-20°	925.4	3.4
20°-30°	1572.9	5.7
30°-40°	2304.1	8.4
40°-50°	3510.6	12.8
50°-60°	6281.2	22.9
60°-70°	8381.6	30.6
70°-80°	3790.4	13.8
80°-90°	371.4	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°	27415.4	100.0
0°-180°	27415.4	100.0

**Coefficient of Utilization**



REPORT NUMBER: P640542

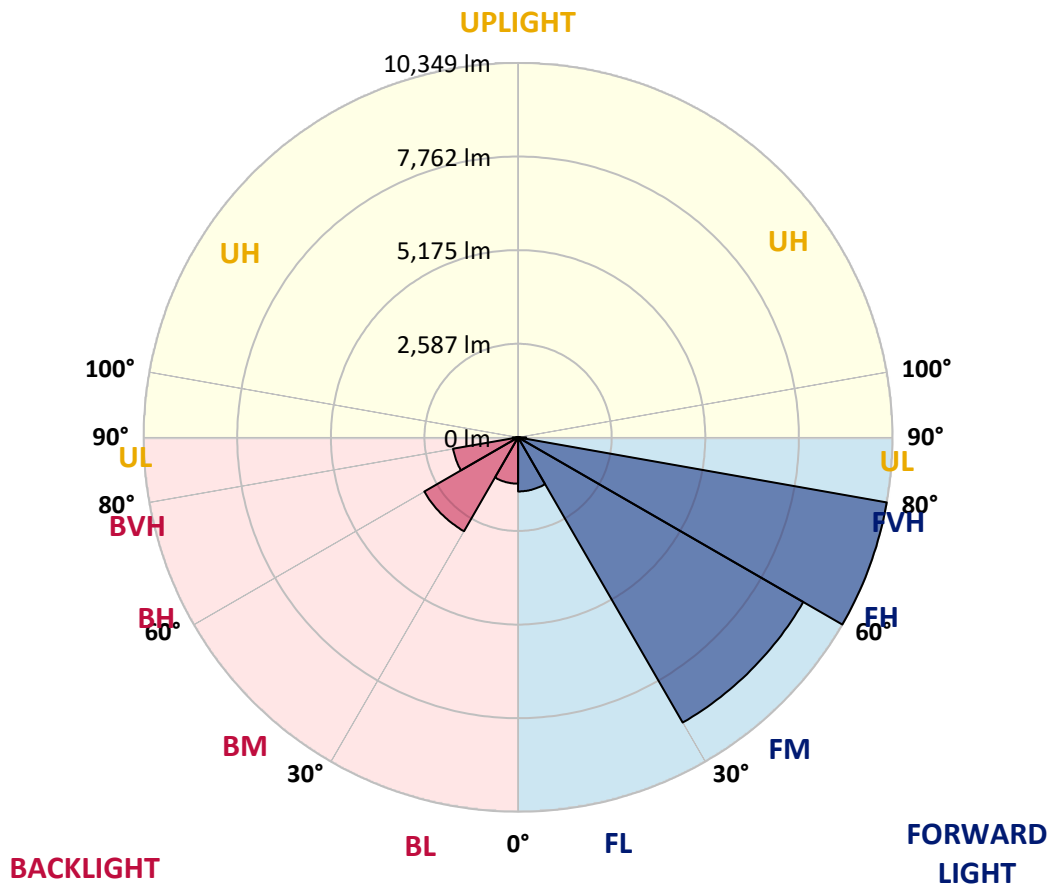
CATALOG NUMBER: GWS-SA5E-722-U-T4W-W

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1495.1	5.5			
FM (30°-60°)	9102.2	33.2			
FH (60°-80°)	10349.0	37.7			G4/12000
FVH (80°-90°)	220.9	0.8			G2/225
BL (0°-30°)	1280.9	4.7	B3/2500		
BM (30°-60°)	2993.8	10.9	B3/5000		
BH (60°-80°)	1823.0	6.6	B3/2500		G3/2500
BVH (80°-90°)	150.5	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°	2717.7	2717.7	2717.7	2717.7	2717.7	2717.7	2717.7	2717.7	2717.7	2717.7	2717.7
2.5°	2898.1	2908.0	2906.1	2890.2	2880.3	2862.4	2864.4	2836.7	2795.0	2767.3	2735.6
5°	3153.8	3169.7	3149.9	3124.1	3084.5	3027.0	3021.0	2957.6	2878.3	2822.8	2765.3
7.5°	3375.9	3385.8	3362.0	3318.4	3260.9	3183.6	3169.7	3094.4	2995.3	2908.0	2824.8
10°	3548.3	3560.2	3528.5	3471.0	3395.7	3318.4	3308.5	3231.1	3126.1	3023.0	2917.9
12.5°	3695.0	3699.0	3665.3	3588.0	3506.7	3427.4	3417.5	3346.1	3249.0	3143.9	3029.0
15°	3780.2	3782.2	3740.6	3655.4	3578.1	3508.7	3502.7	3441.3	3352.1	3253.0	3130.1
17.5°	3774.3	3778.3	3748.5	3673.2	3605.8	3564.2	3558.2	3518.6	3449.2	3360.0	3237.1
20°	3701.0	3704.9	3685.1	3635.5	3599.9	3588.0	3589.9	3578.1	3536.4	3463.1	3338.2
22.5°	3643.5	3649.4	3631.6	3595.9	3591.9	3619.7	3625.6	3631.6	3611.8	3546.3	3425.4
25°	3671.2	3681.1	3653.4	3603.8	3611.8	3673.2	3685.1	3704.9	3689.1	3633.6	3528.5
27.5°	3863.5	3869.5	3798.1	3697.0	3673.2	3738.6	3756.5	3788.2	3776.3	3724.7	3643.5
30°	4309.5	4305.6	4152.9	3905.1	3806.0	3831.8	3845.7	3891.3	3895.2	3861.5	3784.2
32.5°	4937.9	4918.1	4682.2	4287.7	4000.3	3936.8	3952.7	4014.2	4059.8	4024.1	3919.0
35°	5602.0	5584.1	5324.5	4862.6	4359.1	4139.0	4121.2	4168.8	4238.2	4139.0	3988.4
37.5°	6234.3	6206.6	5941.0	5370.1	4801.1	4493.9	4468.1	4420.5	4378.9	4188.6	4073.6
40°	6936.1	6904.4	6672.4	6026.2	5288.8	4765.4	4700.0	4511.7	4474.1	4353.1	4295.6
42.5°	7685.4	7685.4	7493.1	6856.8	5877.5	5154.0	5068.7	4785.3	4824.9	4745.6	4678.2
45°	8434.7	8456.5	8303.9	7693.3	6664.5	5887.4	5750.7	5348.2	5443.4	5407.7	5374.0
47.5°	9073.0	9114.6	9084.9	8547.7	7627.9	6779.5	6571.3	6153.1	6357.2	6442.5	6537.6
50°	9760.8	9806.4	9776.7	9564.6	8755.8	7859.8	7673.5	7241.3	7592.2	7847.9	8159.1
52.5°	10781.7	10847.1	10599.4	10518.1	10125.6	9086.9	8920.4	8428.7	9065.1	9489.3	10183.1
55°	11644.0	11642.0	11554.8	11741.2	11596.5	10587.5	10403.1	9957.1	10769.8	11219.8	12234.8
57.5°	12044.5	12092.0	12391.4	12918.7	13208.1	12421.1	12244.7	11788.7	12599.5	12833.4	13929.6
60°	12250.6	12310.1	12888.9	13931.6	14710.7	14423.2	14353.8	13773.0	14229.0	14201.2	15358.9
62.5°	11961.2	12080.1	13009.8	14395.5	15783.1	16435.3	16413.4	15535.3	15614.6	15343.0	16245.0
65°	10633.1	10761.9	12220.9	14163.5	16395.6	17965.6	17971.5	17131.0	16679.1	15898.0	16096.3
67.5°	7604.1	7788.5	9592.4	12672.8	16179.5	18792.2	18861.6	17854.6	16928.8	15406.4	14534.2
70°	4145.0	4279.8	5693.2	9211.7	14232.9	18594.0	18722.8	17505.7	15826.7	13327.0	11188.1
72.5°	1883.2	1926.8	2648.4	5054.9	9723.2	16005.1	16544.3	15622.5	12997.9	9844.1	7114.5
75°	862.3	882.1	1153.7	2418.4	5080.6	10710.4	11089.0	11636.1	9045.2	6216.5	3708.9
77.5°	541.2	547.1	656.1	1106.1	2533.4	5346.3	5744.7	6928.1	5296.7	3076.5	1550.2
80°	319.2	325.1	408.4	598.7	1189.4	2446.2	2824.8	2739.5	2489.8	1328.1	705.7
82.5°	160.6	166.5	235.9	341.0	648.2	973.3	1145.8	1151.7	927.7	719.6	398.4
85°	57.5	59.5	77.3	134.8	275.5	321.1	358.8	438.1	453.9	418.3	192.3
87.5°	0.0	0.0	2.0	4.0	7.9	31.7	33.7	63.4	132.8	148.7	77.3
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: P640542  
 CATALOG NUMBER: GWS-SA5E-722-U-T4W-W

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2717.7	2717.7	2717.7	2717.7	2717.7	2717.7	2717.7	2717.7	2717.7	2717.7	2717.7
2.5°	2725.7	2695.9	2686.0	2676.1	2660.2	2654.3	2642.4	2630.5	2630.5	2618.6	2612.7
5°	2739.5	2699.9	2674.1	2662.2	2652.3	2658.3	2658.3	2662.2	2676.1	2668.2	2672.1
7.5°	2789.1	2743.5	2707.8	2697.9	2697.9	2721.7	2737.6	2757.4	2783.1	2787.1	2787.1
10°	2876.3	2822.8	2785.1	2779.2	2789.1	2822.8	2846.6	2870.4	2902.1	2904.1	2908.0
12.5°	2971.5	2917.9	2880.3	2888.2	2898.1	2941.7	2967.5	2987.3	3019.0	3019.0	3017.1
15°	3070.6	3011.1	2979.4	2995.3	3025.0	3074.5	3078.5	3080.5	3096.4	3092.4	3090.4
17.5°	3173.7	3110.2	3086.4	3110.2	3141.9	3165.7	3145.9	3118.2	3112.2	3104.3	3100.3
20°	3274.8	3209.3	3199.4	3217.3	3227.2	3207.4	3145.9	3094.4	3070.6	3058.7	3054.7
22.5°	3362.0	3306.5	3300.5	3300.5	3251.0	3181.6	3090.4	3021.0	2989.3	2973.5	2969.5
25°	3465.1	3413.5	3403.6	3350.1	3223.2	3096.4	2973.5	2910.0	2884.2	2876.3	2878.3
27.5°	3586.0	3550.3	3518.6	3365.9	3143.9	2945.7	2806.9	2779.2	2769.3	2779.2	2785.1
30°	3734.7	3699.0	3627.6	3346.1	3017.1	2749.5	2616.6	2614.7	2644.4	2670.2	2674.1
32.5°	3855.6	3839.7	3722.8	3282.7	2838.7	2533.4	2420.4	2428.3	2481.8	2517.5	2523.5
35°	3950.7	3976.5	3802.1	3177.6	2626.5	2329.2	2240.0	2244.0	2273.7	2323.3	2325.2
37.5°	4085.5	4172.7	3873.4	3017.1	2382.7	2152.8	2071.5	2041.8	2037.8	2051.7	2055.6
40°	4357.1	4487.9	3925.0	2783.1	2146.8	1994.2	1903.0	1845.5	1796.0	1758.3	1746.4
42.5°	4767.4	4918.1	3954.7	2499.7	1936.7	1837.6	1734.5	1661.2	1573.9	1494.7	1466.9
45°	5520.7	5570.3	3954.7	2198.4	1750.4	1690.9	1587.8	1500.6	1389.6	1296.4	1276.6
47.5°	6725.9	6567.4	3958.7	1907.0	1585.8	1562.1	1472.8	1373.7	1250.8	1173.5	1161.6
50°	8541.7	7984.7	4039.9	1665.1	1449.1	1453.0	1387.6	1278.6	1167.6	1110.1	1100.2
52.5°	10599.4	9731.1	4258.0	1486.7	1334.1	1363.8	1328.1	1223.1	1124.0	1074.4	1064.5
55°	12534.1	11336.8	4444.3	1359.9	1237.0	1288.5	1286.5	1189.4	1100.2	1050.6	1044.7
57.5°	14179.4	12437.0	4416.6	1256.8	1153.7	1219.1	1248.8	1167.6	1084.3	1042.7	1036.7
60°	15202.3	13019.7	4022.1	1161.6	1090.3	1169.6	1227.0	1161.6	1092.2	1082.3	1084.3
62.5°	15646.3	12912.7	3264.8	1090.3	1048.6	1145.8	1250.8	1203.3	1165.6	1189.4	1203.3
65°	14956.5	11992.9	2402.5	1036.7	1009.0	1151.7	1306.3	1268.7	1165.6	1181.5	1187.4
67.5°	13041.6	10208.8	1736.5	983.2	959.4	1169.6	1385.6	1258.8	1098.2	1098.2	1086.3
70°	9398.1	7342.4	1260.7	929.7	909.9	1143.8	1389.6	1191.4	1020.9	1014.9	985.2
72.5°	5655.5	4331.3	983.2	870.2	834.5	1014.9	1302.4	1112.1	945.6	896.0	860.3
75°	2937.8	2170.6	824.6	804.8	715.6	860.3	1191.4	989.2	808.8	765.2	745.3
77.5°	1258.8	1014.9	707.7	717.6	594.7	723.5	961.4	856.4	717.6	662.1	644.2
80°	620.5	576.8	559.0	574.9	475.8	559.0	828.6	749.3	608.6	545.1	519.4
82.5°	354.8	337.0	402.4	408.4	339.0	467.8	699.8	634.3	503.5	434.1	392.5
85°	164.5	176.4	243.8	245.8	210.1	321.1	457.9	356.8	267.6	222.0	212.1
87.5°	65.4	77.3	107.0	105.1	61.5	59.5	39.6	21.8	17.8	15.9	13.9
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)