

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: P638562

Luminaire Tested: GWS-SA4F-722-U-T4W-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638562  
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-SA4F-722-U-T4W-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: (64) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

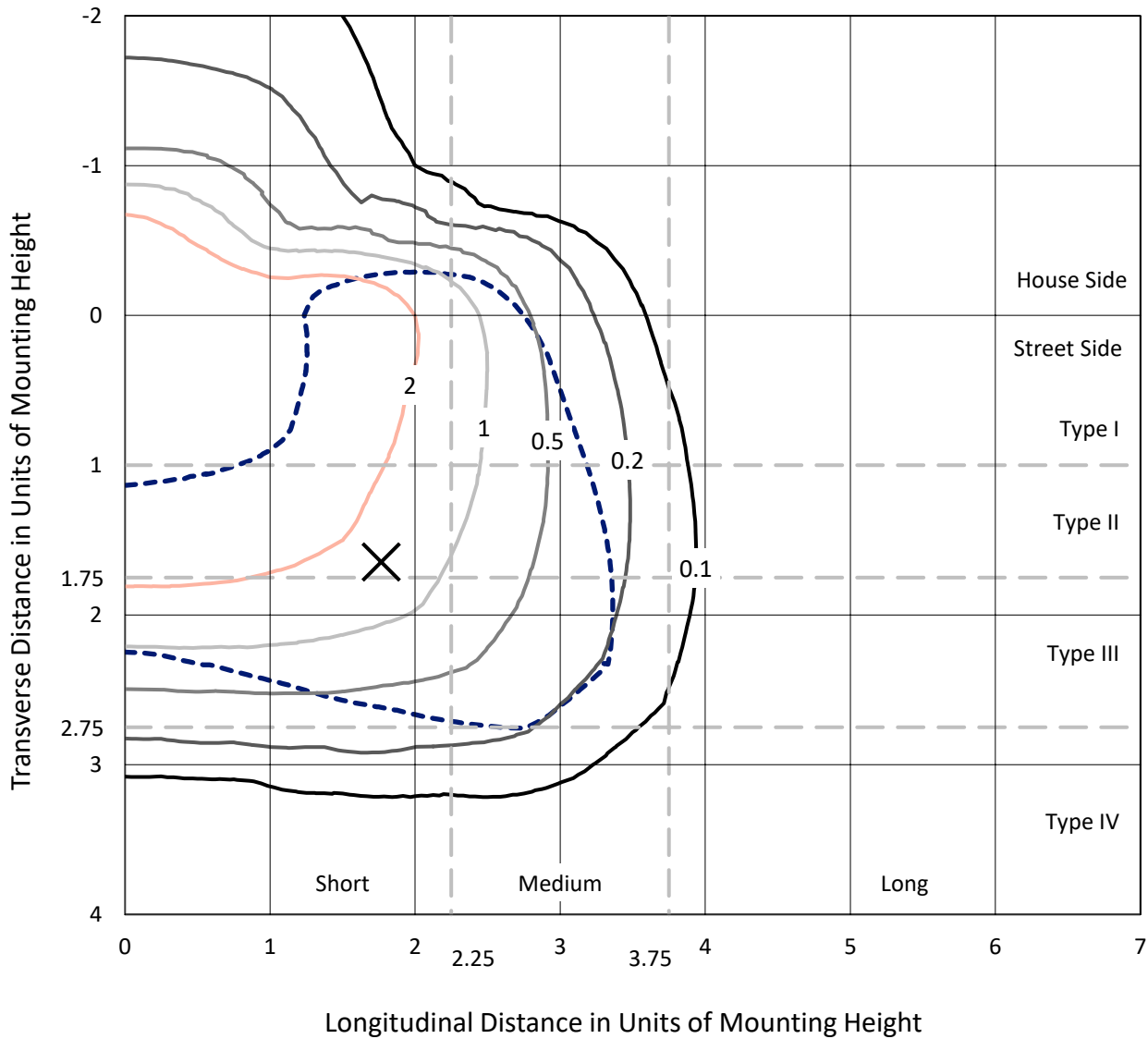
Lumens per Lamp: N/A  
Luminaire Lumens: 24847.6 lumens  
Efficiency: N/A  
Efficacy: 110.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 225.3  
Input Voltage (V): 120  
Input Current (Ain): 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



REPORT NUMBER: P638562  
 CATALOG NUMBER: GWS-SA4F-722-U-T4W-W

### Iso-Footcandle Lines of Horizontal Illumination

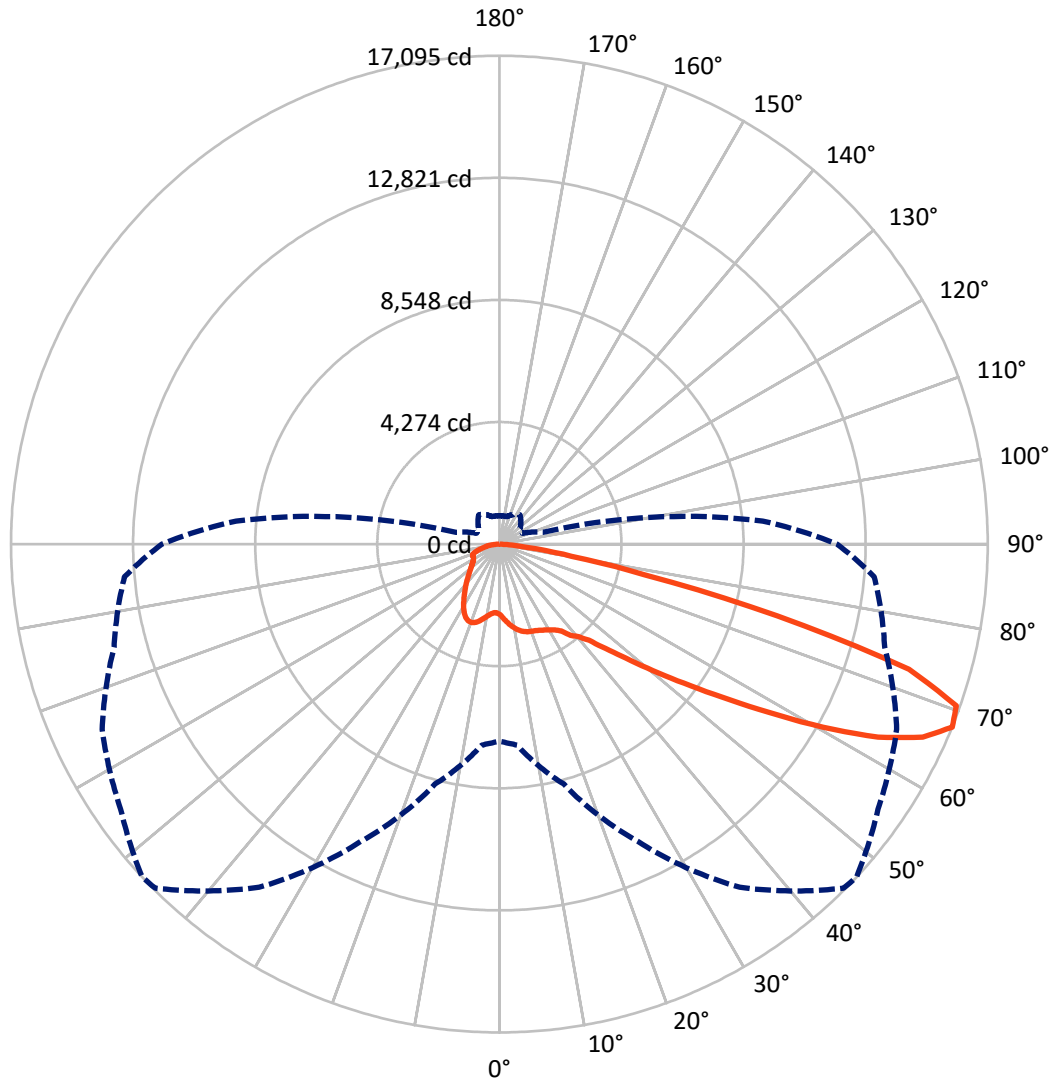
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc  
 Type III - Short - N/A

REPORT NUMBER: P638562  
CATALOG NUMBER: GWS-SA4F-722-U-T4W-W

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P638562

CATALOG NUMBER: GWS-SA4F-722-U-T4W-W

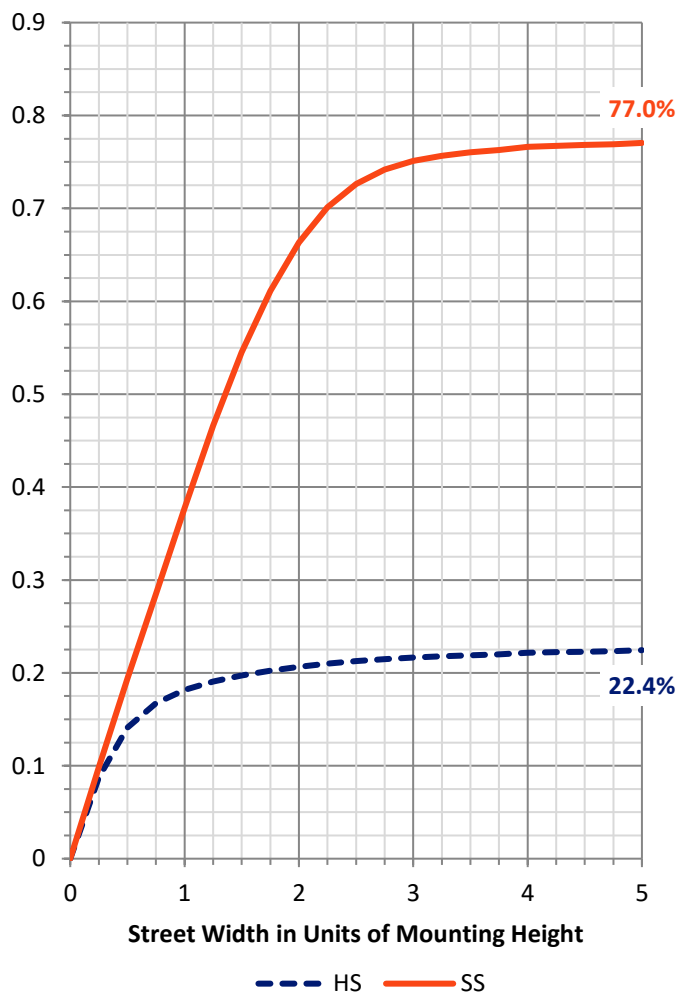
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5663.0	0.0	5663.0
	% Fixture	22.8	0.0	22.8
<b>Street Side</b>	Lumens	19184.6	0.0	19184.6
	% Fixture	77.2	0.0	77.2
<b>Total</b>	Lumens	24847.6	0.0	24847.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	251.7	1.0
10°-20°	838.7	3.4
20°-30°	1425.6	5.7
30°-40°	2088.3	8.4
40°-50°	3181.8	12.8
50°-60°	5692.9	22.9
60°-70°	7596.6	30.6
70°-80°	3435.3	13.8
80°-90°	336.6	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°	24847.6	100.0
0°-180°	24847.6	100.0

**Coefficient of Utilization**



REPORT NUMBER: P638562

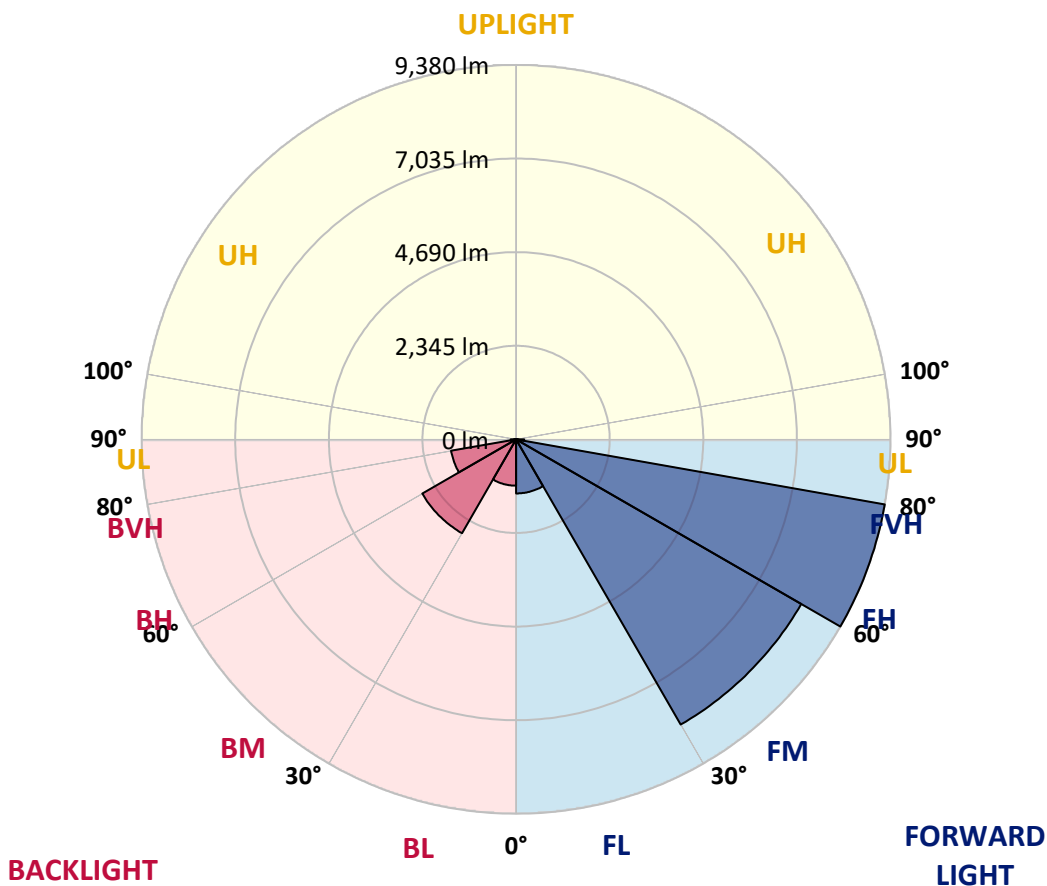
CATALOG NUMBER: GWS-SA4F-722-U-T4W-W

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1355.1	5.5			
FM (30°-60°)	8249.7	33.2			
FH (60°-80°)	9379.7	37.7			G4/12000
FVH (80°-90°)	200.2	0.8			G2/225
BL (0°-30°)	1160.9	4.7	B3/2500		
BM (30°-60°)	2713.4	10.9	B3/5000		
BH (60°-80°)	1652.3	6.6	B3/2500		G3/2500
BVH (80°-90°)	136.4	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





REPORT NUMBER: P638562  
 CATALOG NUMBER: GWS-SA4F-722-U-T4W-W

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	2463.2	2463.2	2463.2	2463.2	2463.2	2463.2	2463.2	2463.2	2463.2	2463.2	2463.2
2.5°	2626.7	2635.7	2633.9	2619.5	2610.5	2594.3	2596.1	2571.0	2533.3	2508.1	2479.4
5°	2858.4	2872.8	2854.8	2831.5	2795.6	2743.5	2738.1	2680.6	2608.7	2558.4	2506.3
7.5°	3059.7	3068.6	3047.1	3007.6	2955.5	2885.4	2872.8	2804.5	2714.7	2635.7	2560.2
10°	3216.0	3226.8	3198.0	3145.9	3077.6	3007.6	2998.6	2928.5	2833.3	2739.9	2644.6
12.5°	3348.9	3352.5	3322.0	3251.9	3178.2	3106.4	3097.4	3032.7	2944.7	2849.5	2745.3
15°	3426.2	3428.0	3390.2	3313.0	3242.9	3180.0	3174.7	3119.0	3038.1	2948.3	2836.9
17.5°	3420.8	3424.4	3397.4	3329.2	3268.1	3230.3	3225.0	3189.0	3126.1	3045.3	2933.9
20°	3354.3	3357.9	3339.9	3295.0	3262.7	3251.9	3253.7	3242.9	3205.2	3138.7	3025.5
22.5°	3302.2	3307.6	3291.4	3259.1	3255.5	3280.7	3286.0	3291.4	3273.5	3214.2	3104.6
25°	3327.4	3336.3	3311.2	3266.3	3273.5	3329.2	3339.9	3357.9	3343.5	3293.2	3198.0
27.5°	3501.6	3507.0	3442.3	3350.7	3329.2	3388.4	3404.6	3433.4	3422.6	3375.9	3302.2
30°	3905.9	3902.3	3763.9	3539.4	3449.5	3472.9	3485.5	3526.8	3530.4	3499.8	3429.8
32.5°	4475.4	4457.4	4243.6	3886.1	3625.6	3568.1	3582.5	3638.2	3679.5	3647.2	3551.9
35°	5077.3	5061.1	4825.8	4407.1	3950.8	3751.4	3735.2	3778.3	3841.2	3751.4	3614.8
37.5°	5650.4	5625.3	5384.5	4867.1	4351.4	4073.0	4049.6	4006.5	3968.8	3796.3	3692.1
40°	6286.4	6257.7	6047.5	5461.8	4793.4	4319.1	4259.8	4089.1	4055.0	3945.4	3893.3
42.5°	6965.5	6965.5	6791.3	6214.6	5327.0	4671.2	4594.0	4337.1	4373.0	4301.1	4240.1
45°	7644.7	7664.4	7526.1	6972.7	6040.3	5336.0	5212.0	4847.3	4933.6	4901.2	4870.7
47.5°	8223.2	8260.9	8234.0	7747.1	6913.4	6144.5	5955.8	5576.7	5761.8	5839.1	5925.3
50°	8846.6	8887.9	8861.0	8668.8	7935.7	7123.6	6954.8	6563.1	6881.1	7112.9	7394.9
52.5°	9771.9	9831.2	9606.6	9532.9	9177.2	8235.8	8084.8	7639.3	8216.0	8600.5	9229.3
55°	10553.4	10551.6	10472.6	10641.5	10510.3	9595.8	9428.7	9024.5	9761.1	10168.9	11088.8
57.5°	10916.3	10959.5	11230.8	11708.7	11971.0	11257.7	11097.8	10684.6	11419.4	11631.4	12624.9
60°	11103.2	11157.1	11681.7	12626.7	13332.8	13072.3	13009.4	12483.0	12896.2	12871.1	13920.3
62.5°	10840.9	10948.7	11791.3	13047.1	14304.8	14895.9	14876.1	14080.2	14152.1	13905.9	14723.4
65°	9637.1	9753.9	11076.2	12836.9	14859.9	16282.9	16288.3	15526.5	15116.9	14409.0	14588.7
67.5°	6891.9	7059.0	8693.9	11485.9	14664.1	17032.1	17095.0	16182.3	15343.2	13963.4	13172.9
70°	3756.8	3878.9	5159.9	8349.0	12899.8	16852.4	16969.2	15866.1	14344.3	12078.8	10140.2
72.5°	1706.8	1746.3	2400.3	4581.4	8812.5	14506.0	14994.7	14159.3	11780.5	8922.1	6448.1
75°	781.5	799.5	1045.6	2191.9	4604.8	9707.2	10050.4	10546.2	8198.0	5634.2	3361.5
77.5°	490.5	495.9	594.7	1002.5	2296.1	4845.5	5206.6	6279.2	4800.6	2788.4	1405.0
80°	289.3	294.6	370.1	542.6	1078.0	2217.0	2560.2	2482.9	2256.6	1203.7	639.6
82.5°	145.5	150.9	213.8	309.0	587.5	882.1	1038.5	1043.8	840.8	652.2	361.1
85°	52.1	53.9	70.1	122.2	249.7	291.1	325.2	397.1	411.4	379.1	174.3
87.5°	0.0	0.0	1.8	3.6	7.2	28.7	30.5	57.5	120.4	134.7	70.1
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: P638562  
 CATALOG NUMBER: GWS-SA4F-722-U-T4W-W

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2463.2	2463.2	2463.2	2463.2	2463.2	2463.2	2463.2	2463.2	2463.2	2463.2	2463.2
2.5°	2470.4	2443.4	2434.4	2425.5	2411.1	2405.7	2394.9	2384.1	2384.1	2373.4	2368.0
5°	2482.9	2447.0	2423.7	2412.9	2403.9	2409.3	2409.3	2412.9	2425.5	2418.3	2421.9
7.5°	2527.9	2486.5	2454.2	2445.2	2445.2	2466.8	2481.1	2499.1	2522.5	2526.1	2526.1
10°	2606.9	2558.4	2524.3	2518.9	2527.9	2558.4	2580.0	2601.5	2630.3	2632.1	2635.7
12.5°	2693.2	2644.6	2610.5	2617.7	2626.7	2666.2	2689.6	2707.5	2736.3	2736.3	2734.5
15°	2783.0	2729.1	2700.3	2714.7	2741.7	2786.6	2790.2	2792.0	2806.3	2802.7	2801.0
17.5°	2876.4	2818.9	2797.4	2818.9	2847.7	2869.2	2851.3	2826.1	2820.7	2813.5	2809.9
20°	2968.0	2908.7	2899.8	2915.9	2924.9	2907.0	2851.3	2804.5	2783.0	2772.2	2768.6
22.5°	3047.1	2996.8	2991.4	2991.4	2946.5	2883.6	2801.0	2738.1	2709.3	2694.9	2691.4
25°	3140.5	3093.8	3084.8	3036.3	2921.3	2806.3	2694.9	2637.5	2614.1	2606.9	2608.7
27.5°	3250.1	3217.8	3189.0	3050.7	2849.5	2669.8	2544.0	2518.9	2509.9	2518.9	2524.3
30°	3384.9	3352.5	3287.8	3032.7	2734.5	2491.9	2371.6	2369.8	2396.7	2420.1	2423.7
32.5°	3494.5	3480.1	3374.1	2975.2	2572.8	2296.1	2193.7	2200.9	2249.4	2281.7	2287.1
35°	3580.7	3604.0	3445.9	2880.0	2380.5	2111.0	2030.2	2033.8	2060.7	2105.7	2107.5
37.5°	3702.9	3781.9	3510.6	2734.5	2159.6	1951.1	1877.5	1850.5	1846.9	1859.5	1863.1
40°	3949.0	4067.6	3557.3	2522.5	1945.8	1807.4	1724.8	1672.7	1627.7	1593.6	1582.8
42.5°	4320.9	4457.4	3584.3	2265.6	1755.3	1665.5	1572.1	1505.6	1426.5	1354.7	1329.5
45°	5003.6	5048.5	3584.3	1992.5	1586.4	1532.5	1439.1	1360.1	1259.4	1175.0	1157.0
47.5°	6096.0	5952.2	3587.9	1728.4	1437.3	1415.7	1334.9	1245.1	1133.7	1063.6	1052.8
50°	7741.7	7236.8	3661.5	1509.2	1313.3	1316.9	1257.6	1158.8	1058.2	1006.1	997.1
52.5°	9606.6	8819.7	3859.2	1347.5	1209.1	1236.1	1203.7	1108.5	1018.7	973.8	964.8
55°	11360.1	10274.9	4028.1	1232.5	1121.1	1167.8	1166.0	1078.0	997.1	952.2	946.8
57.5°	12851.3	11272.1	4002.9	1139.1	1045.6	1104.9	1131.9	1058.2	982.8	945.0	939.6
60°	13778.4	11800.3	3645.4	1052.8	988.1	1060.0	1112.1	1052.8	989.9	981.0	982.8
62.5°	14180.8	11703.3	2959.1	988.1	950.4	1038.5	1133.7	1090.6	1056.4	1078.0	1090.6
65°	13555.6	10869.6	2177.5	939.6	914.5	1043.8	1184.0	1149.8	1056.4	1070.8	1076.2
67.5°	11820.0	9252.7	1573.9	891.1	869.6	1060.0	1255.8	1140.9	995.3	995.3	984.6
70°	8517.8	6654.7	1142.7	842.6	824.7	1036.7	1259.4	1079.8	925.3	919.9	892.9
72.5°	5125.8	3925.6	891.1	788.7	756.4	919.9	1180.4	1007.9	857.0	812.1	779.7
75°	2662.6	1967.3	747.4	729.4	648.6	779.7	1079.8	896.5	733.0	693.5	675.5
77.5°	1140.9	919.9	641.4	650.4	539.0	655.8	871.4	776.1	650.4	600.1	583.9
80°	562.3	522.8	506.7	521.0	431.2	506.7	751.0	679.1	551.6	494.1	470.7
82.5°	321.6	305.4	364.7	370.1	307.2	424.0	634.2	574.9	456.3	393.5	355.7
85°	149.1	159.9	221.0	222.8	190.4	291.1	415.0	323.4	242.5	201.2	192.2
87.5°	59.3	70.1	97.0	95.2	55.7	53.9	35.9	19.8	16.2	14.4	12.6
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)