

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: P637902

Luminaire Tested: GWS-SA4D-760-U-T4W-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637902  
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-SA4D-760-U-T4W-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: (64) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

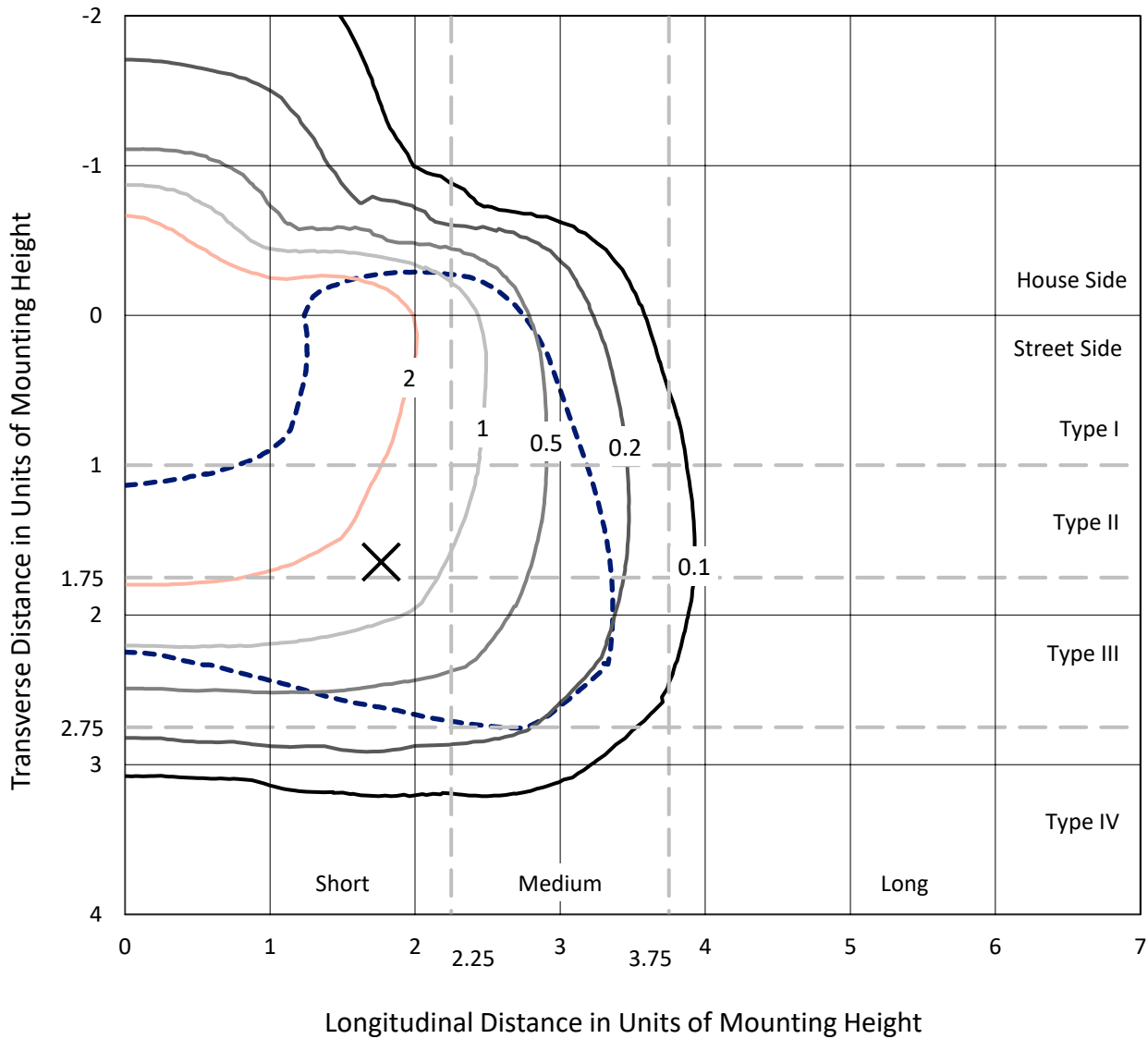
Lumens per Lamp: N/A  
Luminaire Lumens: 24495.2 lumens  
Efficiency: N/A  
Efficacy: 151.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 162.1  
Input Voltage (V): 120  
Input Current (Ain): 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

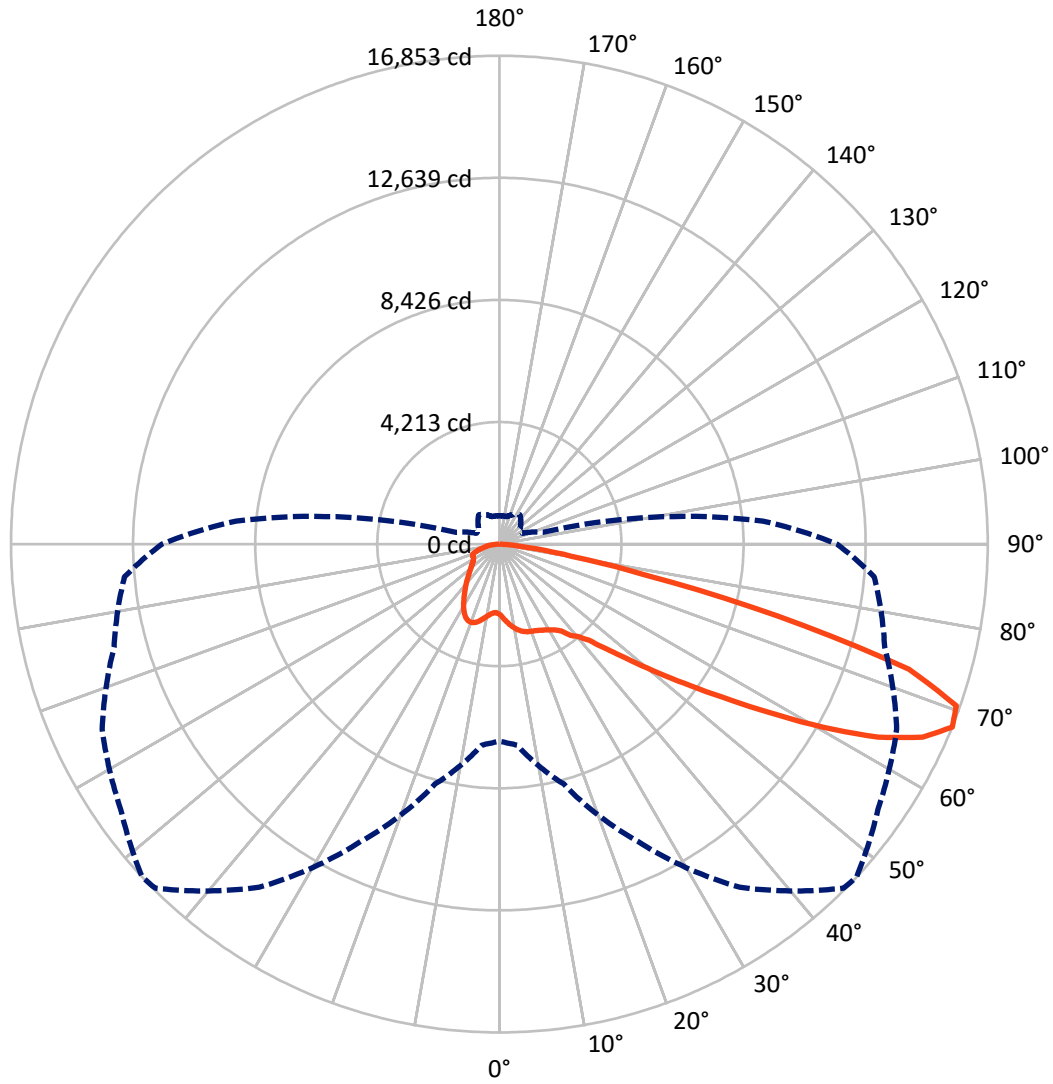
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 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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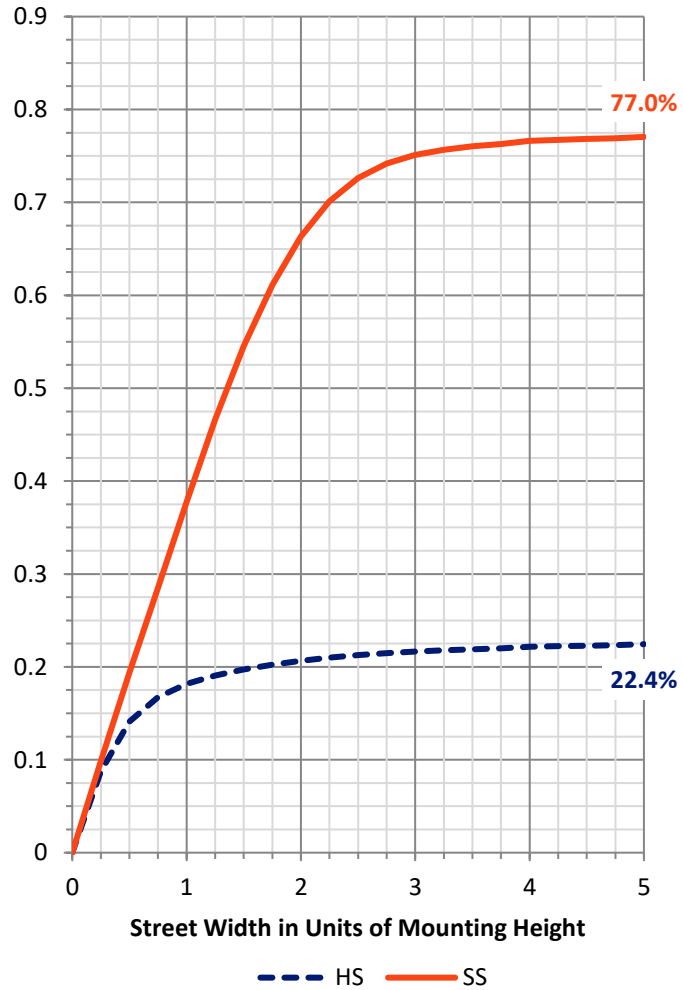
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5582.6	0.0	5582.6
	% Fixture	22.8	0.0	22.8
<b>Street Side</b>	Lumens	18912.6	0.0	18912.6
	% Fixture	77.2	0.0	77.2
<b>Total</b>	Lumens	24495.2	0.0	24495.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	248.2	1.0
10°-20°	826.8	3.4
20°-30°	1405.4	5.7
30°-40°	2058.7	8.4
40°-50°	3136.7	12.8
50°-60°	5612.2	22.9
60°-70°	7488.9	30.6
70°-80°	3386.6	13.8
80°-90°	331.8	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°	24495.2	100.0
0°-180°	24495.2	100.0

**Coefficient of Utilization**



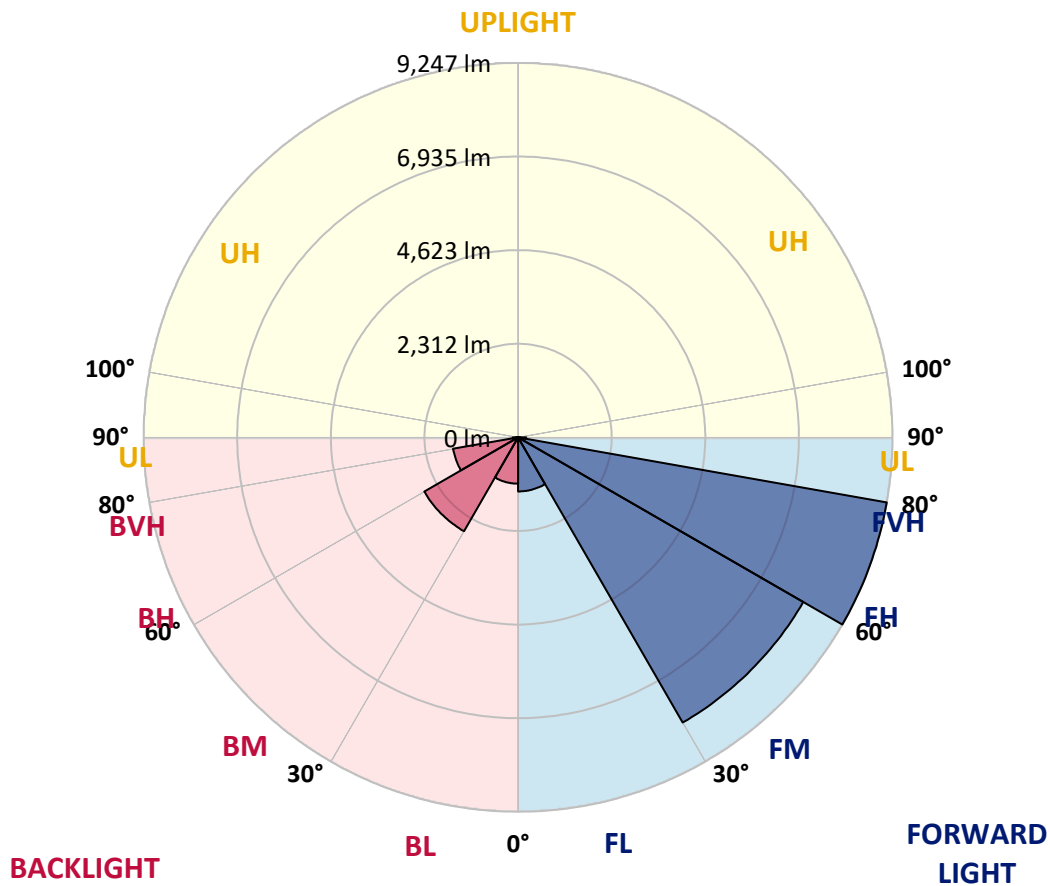
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1335.9	5.5			
FM (30°-60°)	8132.7	33.2			
FH (60°-80°)	9246.7	37.7			G4/12000
FVH (80°-90°)	197.4	0.8			G2/225
BL (0°-30°)	1144.5	4.7	B3/2500		
BM (30°-60°)	2674.9	10.9	B3/5000		
BH (60°-80°)	1628.8	6.6	B3/2500		G3/2500
BVH (80°-90°)	134.4	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	2428.2	2428.2	2428.2	2428.2	2428.2	2428.2	2428.2	2428.2	2428.2	2428.2	2428.2
2.5°	2589.4	2598.3	2596.5	2582.3	2573.5	2557.5	2559.3	2534.5	2497.3	2472.5	2444.2
5°	2817.9	2832.1	2814.4	2791.3	2755.9	2704.5	2699.2	2642.6	2571.7	2522.1	2470.8
7.5°	3016.3	3025.1	3003.9	2964.9	2913.5	2844.5	2832.1	2764.8	2676.2	2598.3	2523.9
10°	3170.4	3181.0	3152.7	3101.3	3034.0	2964.9	2956.1	2887.0	2793.1	2701.0	2607.1
12.5°	3301.4	3305.0	3274.9	3205.8	3133.2	3062.3	3053.5	2989.7	2902.9	2809.0	2706.3
15°	3377.6	3379.4	3342.2	3266.0	3196.9	3134.9	3129.6	3074.7	2995.0	2906.5	2796.6
17.5°	3372.3	3375.8	3349.2	3281.9	3221.7	3184.5	3179.2	3143.8	3081.8	3002.1	2892.3
20°	3306.7	3310.3	3292.6	3248.3	3216.4	3205.8	3207.6	3196.9	3159.7	3094.2	2982.6
22.5°	3255.4	3260.7	3244.8	3212.9	3209.3	3234.1	3239.4	3244.8	3227.0	3168.6	3060.6
25°	3280.2	3289.0	3264.2	3220.0	3227.0	3281.9	3292.6	3310.3	3296.1	3246.5	3152.7
27.5°	3452.0	3457.3	3393.5	3303.2	3281.9	3340.4	3356.3	3384.7	3374.0	3328.0	3255.4
30°	3850.5	3846.9	3710.6	3489.2	3400.6	3423.6	3436.0	3476.8	3480.3	3450.2	3381.1
32.5°	4411.9	4394.2	4183.5	3831.0	3574.2	3517.5	3531.7	3586.6	3627.3	3595.4	3501.6
35°	5005.3	4989.3	4757.3	4344.6	3894.8	3698.2	3682.2	3724.7	3786.7	3698.2	3563.6
37.5°	5570.3	5545.5	5308.1	4798.1	4289.7	4015.2	3992.2	3949.7	3912.5	3742.4	3639.7
40°	6197.3	6168.9	5961.7	5384.3	4725.4	4257.8	4199.4	4031.1	3997.5	3889.4	3838.1
42.5°	6866.8	6866.8	6695.0	6126.4	5251.5	4605.0	4528.8	4275.6	4311.0	4240.1	4179.9
45°	7536.3	7555.7	7419.4	6873.8	5954.6	5260.3	5138.1	4778.6	4863.6	4831.7	4801.6
47.5°	8106.6	8143.8	8117.2	7637.2	6815.4	6057.3	5871.4	5497.7	5680.1	5756.2	5841.3
50°	8721.2	8761.9	8735.3	8545.8	7823.2	7022.6	6856.1	6470.0	6783.5	7012.0	7290.1
52.5°	9633.3	9691.7	9470.4	9397.7	9047.0	8119.0	7970.2	7530.9	8099.5	8478.5	9098.4
55°	10403.7	10402.0	10324.0	10490.5	10361.2	9459.7	9295.0	8896.5	9622.7	10024.7	10931.6
57.5°	10761.5	10804.0	11071.5	11542.6	11801.2	11098.0	10940.4	10533.0	11257.4	11466.4	12445.9
60°	10945.7	10998.9	11516.0	12447.7	13143.7	12886.9	12824.9	12306.0	12713.3	12688.5	13722.9
62.5°	10687.1	10793.4	11624.1	12862.1	14101.9	14684.6	14665.1	13880.5	13951.4	13708.7	14514.6
65°	9500.5	9615.6	10919.2	12654.9	14649.2	16052.0	16057.3	15306.3	14902.5	14204.6	14381.8
67.5°	6794.1	6958.9	8570.6	11323.0	14456.1	16790.5	16852.5	15952.8	15125.6	13765.4	12986.1
70°	3703.5	3823.9	5086.7	8230.5	12716.9	16613.4	16728.5	15641.0	14140.9	11907.5	9996.4
72.5°	1682.6	1721.6	2366.3	4516.4	8687.5	14300.3	14782.0	13958.4	11613.4	8795.5	6356.7
75°	770.5	788.2	1030.8	2160.8	4539.5	9569.5	9907.8	10396.7	8081.8	5554.3	3313.8
77.5°	483.5	488.8	586.3	988.3	2263.5	4776.8	5132.8	6190.2	4732.5	2748.8	1385.0
80°	285.2	290.5	364.9	534.9	1062.7	2185.6	2523.9	2447.7	2224.6	1186.7	630.5
82.5°	143.5	148.8	210.8	304.6	579.2	869.6	1023.7	1029.0	828.9	642.9	356.0
85°	51.4	53.1	69.1	120.4	246.2	286.9	320.6	391.4	405.6	373.7	171.8
87.5°	0.0	0.0	1.8	3.5	7.1	28.3	30.1	56.7	118.7	132.8	69.1
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°	2428.2	2428.2	2428.2	2428.2	2428.2	2428.2	2428.2	2428.2	2428.2	2428.2	2428.2
2.5°	2435.3	2408.8	2399.9	2391.1	2376.9	2371.6	2360.9	2350.3	2350.3	2339.7	2334.4
5°	2447.7	2412.3	2389.3	2378.7	2369.8	2375.1	2375.1	2378.7	2391.1	2384.0	2387.5
7.5°	2492.0	2451.3	2419.4	2410.5	2410.5	2431.8	2446.0	2463.7	2486.7	2490.2	2490.2
10°	2569.9	2522.1	2488.5	2483.2	2492.0	2522.1	2543.4	2564.6	2593.0	2594.7	2598.3
12.5°	2655.0	2607.1	2573.5	2580.6	2589.4	2628.4	2651.4	2669.1	2697.5	2697.5	2695.7
15°	2743.5	2690.4	2662.0	2676.2	2702.8	2747.1	2750.6	2752.4	2766.5	2763.0	2761.2
17.5°	2835.6	2778.9	2757.7	2778.9	2807.3	2828.5	2810.8	2786.0	2780.7	2773.6	2770.1
20°	2925.9	2867.5	2858.6	2874.6	2883.4	2865.7	2810.8	2764.8	2743.5	2732.9	2729.3
22.5°	3003.9	2954.3	2949.0	2949.0	2904.7	2842.7	2761.2	2699.2	2670.9	2656.7	2653.2
25°	3096.0	3049.9	3041.1	2993.2	2879.9	2766.5	2656.7	2600.1	2577.0	2569.9	2571.7
27.5°	3204.0	3172.1	3143.8	3007.4	2809.0	2631.9	2508.0	2483.2	2474.3	2483.2	2488.5
30°	3336.9	3305.0	3241.2	2989.7	2695.7	2456.6	2337.9	2336.1	2362.7	2385.7	2389.3
32.5°	3444.9	3430.7	3326.2	2933.0	2536.3	2263.5	2162.6	2169.7	2217.5	2249.4	2254.7
35°	3529.9	3552.9	3397.1	2839.2	2346.8	2081.1	2001.4	2004.9	2031.5	2075.8	2077.6
37.5°	3650.3	3728.3	3460.8	2695.7	2128.9	1923.5	1850.9	1824.3	1820.7	1833.1	1836.7
40°	3893.0	4009.9	3506.9	2486.7	1918.2	1781.8	1700.3	1648.9	1604.7	1571.0	1560.4
42.5°	4259.6	4394.2	3533.4	2233.4	1730.4	1641.9	1549.8	1484.2	1406.3	1335.4	1310.7
45°	4932.7	4976.9	3533.4	1964.2	1563.9	1510.8	1418.7	1340.8	1241.6	1158.3	1140.6
47.5°	6009.5	5867.8	3537.0	1703.8	1416.9	1395.7	1316.0	1227.4	1117.6	1048.5	1037.9
50°	7631.9	7134.2	3609.6	1487.8	1294.7	1298.3	1239.8	1142.4	1043.2	991.8	983.0
52.5°	9470.4	8694.6	3804.4	1328.4	1192.0	1218.6	1186.7	1092.8	1004.2	960.0	951.1
55°	11199.0	10129.2	3970.9	1215.0	1105.2	1151.2	1149.5	1062.7	983.0	938.7	933.4
57.5°	12669.1	11112.2	3946.1	1122.9	1030.8	1089.3	1115.8	1043.2	968.8	931.6	926.3
60°	13583.0	11632.9	3593.7	1037.9	974.1	1045.0	1096.3	1037.9	975.9	967.0	968.8
62.5°	13979.7	11537.3	2917.1	974.1	936.9	1023.7	1117.6	1075.1	1041.4	1062.7	1075.1
65°	13363.3	10715.5	2146.6	926.3	901.5	1029.0	1167.2	1133.5	1041.4	1055.6	1060.9
67.5°	11652.4	9121.4	1551.5	878.5	857.2	1045.0	1238.0	1124.7	981.2	981.2	970.6
70°	8397.0	6560.3	1126.5	830.7	813.0	1022.0	1241.6	1064.5	912.1	906.8	880.3
72.5°	5053.1	3870.0	878.5	777.5	745.7	906.8	1163.6	993.6	844.8	800.6	768.7
75°	2624.8	1939.4	736.8	719.1	639.4	768.7	1064.5	883.8	722.6	683.7	666.0
77.5°	1124.7	906.8	632.3	641.2	531.3	646.5	859.0	765.1	641.2	591.6	575.6
80°	554.4	515.4	499.5	513.6	425.1	499.5	740.3	669.5	543.7	487.1	464.0
82.5°	317.0	301.1	359.5	364.9	302.9	418.0	625.2	566.8	449.9	387.9	350.7
85°	147.0	157.6	217.9	219.6	187.7	286.9	409.1	318.8	239.1	198.4	189.5
87.5°	58.4	69.1	95.6	93.9	54.9	53.1	35.4	19.5	15.9	14.2	12.4
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)