

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: P637737

Luminaire Tested: GWS-SA4D-735-U-T4W-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637737  
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-735-U-T4W-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: (64) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

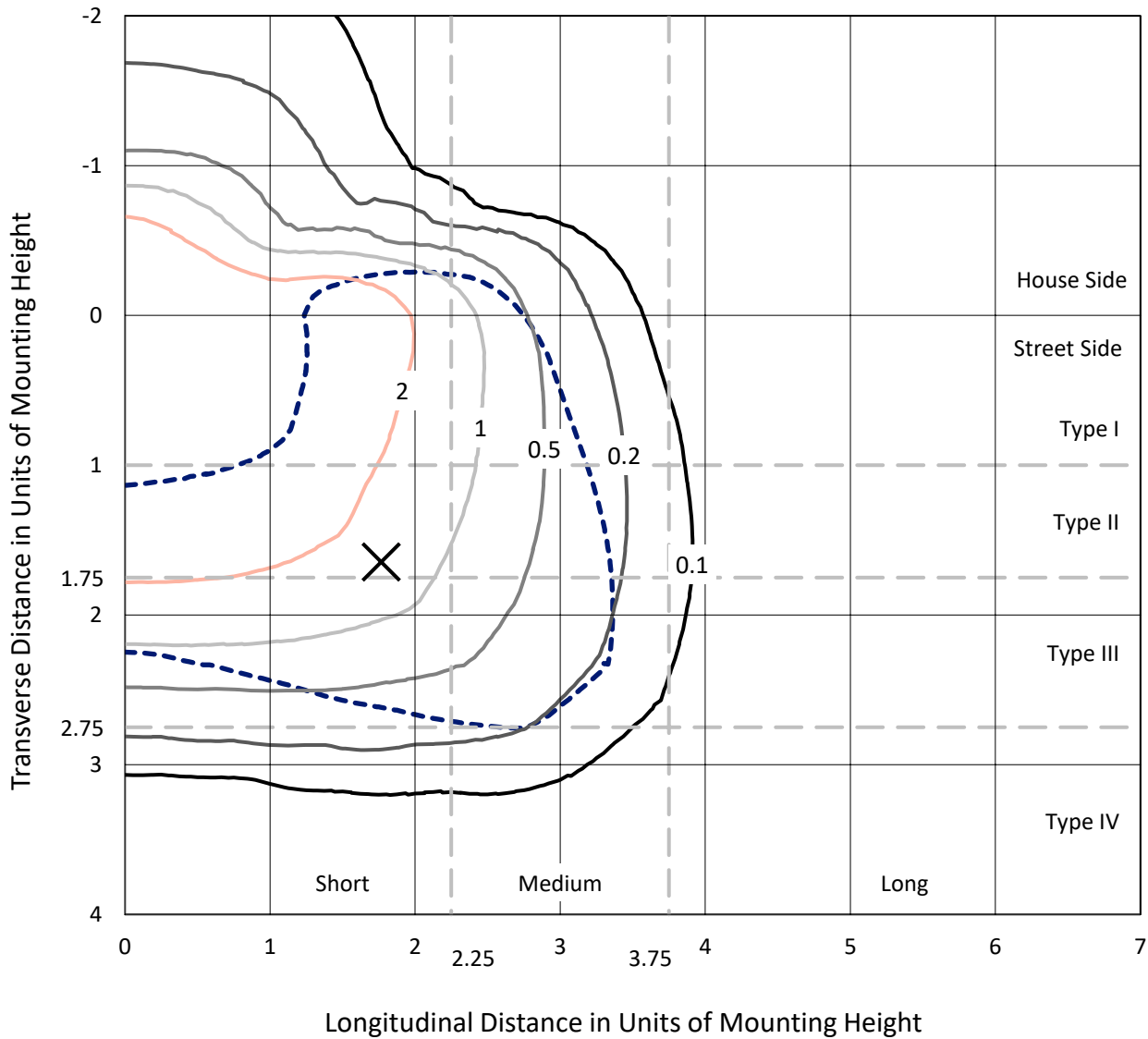
Lumens per Lamp: N/A  
Luminaire Lumens: 23946.4 lumens  
Efficiency: N/A  
Efficacy: 147.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 162.1  
Input Voltage (V): 120  
Input Current (Ain): 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

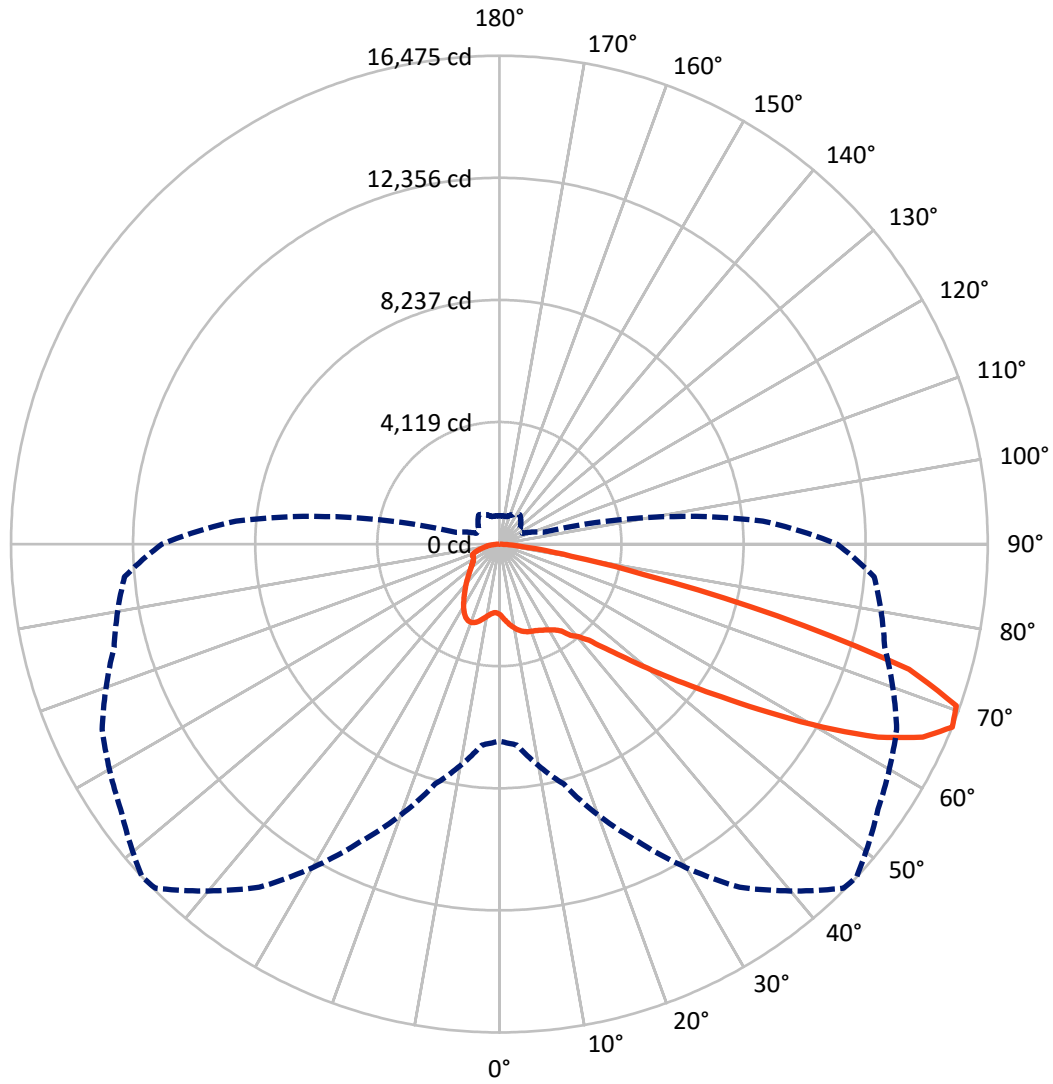
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc  
 Type III - Short - N/A

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CATALOG NUMBER: GWS-SA4D-735-U-T4W-W

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P637737

CATALOG NUMBER: GWS-SA4D-735-U-T4W-W

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5457.6	0.0	5457.6
	% Fixture	22.8	0.0	22.8
<b>Street Side</b>	Lumens	18488.8	0.0	18488.8
	% Fixture	77.2	0.0	77.2
<b>Total</b>	Lumens	23946.4	0.0	23946.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	242.6	1.0
10°-20°	808.3	3.4
20°-30°	1373.9	5.7
30°-40°	2012.6	8.4
40°-50°	3066.4	12.8
50°-60°	5486.5	22.9
60°-70°	7321.1	30.6
70°-80°	3310.8	13.8
80°-90°	324.4	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°	23946.4	100.0
0°-180°	23946.4	100.0

**Coefficient of Utilization**



REPORT NUMBER: P637737

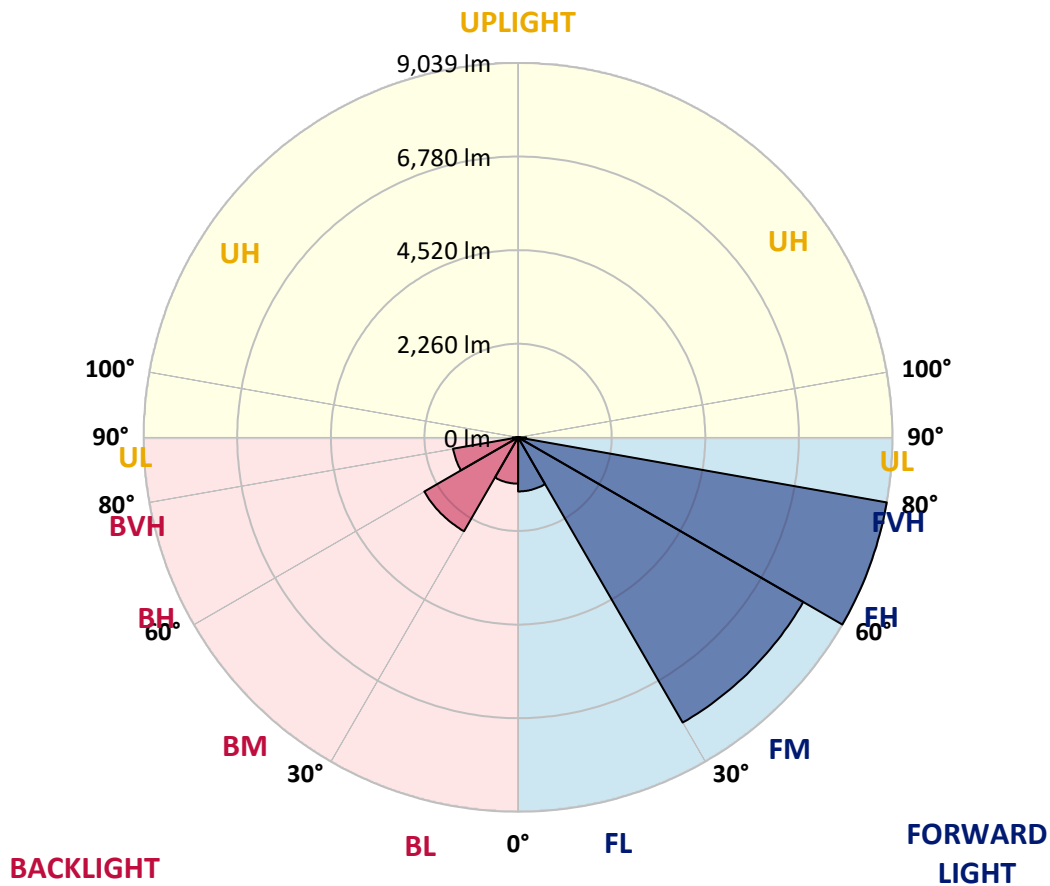
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1306.0	5.5			
FM (30°-60°)	7950.4	33.2			
FH (60°-80°)	9039.5	37.7			G4/12000
FVH (80°-90°)	192.9	0.8			G2/225
BL (0°-30°)	1118.8	4.7	B3/2500		
BM (30°-60°)	2615.0	10.9	B3/5000		
BH (60°-80°)	1592.3	6.6	B3/2500		G3/2500
BVH (80°-90°)	131.4	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: P637737  
 CATALOG NUMBER: GWS-SA4D-735-U-T4W-W

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	2373.8	2373.8	2373.8	2373.8	2373.8	2373.8	2373.8	2373.8	2373.8	2373.8	2373.8
2.5°	2531.4	2540.1	2538.3	2524.5	2515.8	2500.2	2502.0	2477.7	2441.4	2417.1	2389.4
5°	2754.8	2768.6	2751.3	2728.8	2694.2	2644.0	2638.8	2583.4	2514.1	2465.6	2415.4
7.5°	2948.7	2957.4	2936.6	2898.5	2848.3	2780.7	2768.6	2702.8	2616.3	2540.1	2467.3
10°	3099.3	3109.7	3082.0	3031.8	2966.0	2898.5	2889.8	2822.3	2730.5	2640.5	2548.7
12.5°	3227.5	3230.9	3201.5	3134.0	3063.0	2993.7	2985.1	2922.7	2837.9	2746.1	2645.7
15°	3301.9	3303.6	3267.3	3192.8	3125.3	3064.7	3059.5	3005.8	2927.9	2841.3	2734.0
17.5°	3296.7	3300.2	3274.2	3208.4	3149.5	3113.2	3108.0	3073.4	3012.8	2934.8	2827.5
20°	3232.7	3236.1	3218.8	3175.5	3144.4	3134.0	3135.7	3125.3	3088.9	3024.9	2915.8
22.5°	3182.4	3187.6	3172.1	3140.9	3137.4	3161.7	3166.9	3172.1	3154.7	3097.6	2992.0
25°	3206.7	3215.3	3191.1	3147.8	3154.7	3208.4	3218.8	3236.1	3222.3	3173.8	3082.0
27.5°	3374.6	3379.8	3317.5	3229.2	3208.4	3265.6	3281.1	3308.8	3298.5	3253.4	3182.4
30°	3764.2	3760.8	3627.4	3411.0	3324.4	3346.9	3359.1	3398.9	3402.3	3372.9	3305.4
32.5°	4313.1	4295.8	4089.7	3745.2	3494.1	3438.7	3452.6	3506.2	3546.1	3514.9	3423.1
35°	4893.1	4877.6	4650.7	4247.3	3807.5	3615.3	3599.7	3641.3	3701.9	3615.3	3483.7
37.5°	5445.5	5421.2	5189.2	4690.6	4193.6	3925.2	3902.7	3861.2	3824.8	3658.6	3558.2
40°	6058.4	6030.7	5828.1	5263.7	4619.6	4162.5	4105.3	3940.8	3907.9	3802.3	3752.1
42.5°	6712.9	6712.9	6545.0	5989.2	5133.8	4501.8	4427.4	4179.8	4214.4	4145.1	4086.3
45°	7367.4	7386.5	7253.1	6719.8	5821.2	5142.5	5023.0	4671.5	4754.6	4723.5	4694.0
47.5°	7924.9	7961.3	7935.3	7466.1	6662.7	5921.6	5739.8	5374.5	5552.8	5627.3	5710.4
50°	8525.8	8565.6	8539.6	8354.3	7647.9	6865.3	6702.5	6325.1	6631.5	6854.9	7126.7
52.5°	9417.5	9474.6	9258.2	9187.2	8844.4	7937.1	7791.6	7362.2	7918.0	8288.5	8894.6
55°	10170.7	10168.9	10092.7	10255.5	10129.1	9247.8	9086.8	8697.2	9407.1	9800.1	10686.6
57.5°	10520.4	10562.0	10823.4	11284.0	11536.8	10849.4	10695.3	10297.1	11005.2	11209.5	12167.0
60°	10700.5	10752.4	11258.0	12168.8	12849.2	12598.2	12537.6	12030.3	12428.5	12404.3	13415.4
62.5°	10447.7	10551.6	11363.6	12573.9	13786.0	14355.6	14336.6	13569.5	13638.8	13401.6	14189.4
65°	9287.6	9400.2	10674.5	12371.4	14321.0	15692.3	15697.5	14963.4	14568.6	13886.4	14059.5
67.5°	6641.9	6802.9	8378.6	11069.3	14132.3	16414.3	16474.9	15595.4	14786.8	13457.0	12695.1
70°	3620.5	3738.2	4972.8	8046.1	12432.0	16241.2	16353.7	15290.6	13824.1	11640.7	9772.4
72.5°	1644.9	1683.0	2313.2	4415.2	8492.9	13979.9	14450.9	13645.7	11353.3	8598.5	6214.2
75°	753.2	770.5	1007.7	2112.4	4437.8	9355.1	9685.8	10163.7	7900.7	5429.9	3239.6
77.5°	472.7	477.9	573.1	966.2	2212.8	4669.8	5017.8	6051.5	4626.5	2687.2	1354.0
80°	278.8	284.0	356.7	522.9	1038.9	2136.6	2467.3	2392.9	2174.7	1160.1	616.4
82.5°	140.2	145.4	206.0	297.8	566.2	850.2	1000.8	1006.0	810.3	628.5	348.0
85°	50.2	51.9	67.5	117.7	240.7	280.5	313.4	382.7	396.5	365.3	168.0
87.5°	0.0	0.0	1.7	3.5	6.9	27.7	29.4	55.4	116.0	129.9	67.5
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: P637737  
 CATALOG NUMBER: GWS-SA4D-735-U-T4W-W

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2373.8	2373.8	2373.8	2373.8	2373.8	2373.8	2373.8	2373.8	2373.8	2373.8	2373.8
2.5°	2380.8	2354.8	2346.1	2337.5	2323.6	2318.4	2308.1	2297.7	2297.7	2287.3	2282.1
5°	2392.9	2358.3	2335.8	2325.4	2316.7	2321.9	2321.9	2325.4	2337.5	2330.6	2334.0
7.5°	2436.2	2396.4	2365.2	2356.5	2356.5	2377.3	2391.2	2408.5	2431.0	2434.4	2434.4
10°	2512.4	2465.6	2432.7	2427.5	2436.2	2465.6	2486.4	2507.2	2534.9	2536.6	2540.1
12.5°	2595.5	2548.7	2515.8	2522.8	2531.4	2569.5	2592.0	2609.3	2637.0	2637.0	2635.3
15°	2682.0	2630.1	2602.4	2616.3	2642.2	2685.5	2689.0	2690.7	2704.6	2701.1	2699.4
17.5°	2772.1	2716.7	2695.9	2716.7	2744.4	2765.2	2747.8	2723.6	2718.4	2711.5	2708.0
20°	2860.4	2803.3	2794.6	2810.2	2818.8	2801.5	2747.8	2702.8	2682.0	2671.7	2668.2
22.5°	2936.6	2888.1	2882.9	2882.9	2839.6	2779.0	2699.4	2638.8	2611.1	2597.2	2593.7
25°	3026.6	2981.6	2972.9	2926.2	2815.4	2704.6	2597.2	2541.8	2519.3	2512.4	2514.1
27.5°	3132.2	3101.1	3073.4	2940.0	2746.1	2573.0	2451.8	2427.5	2418.9	2427.5	2432.7
30°	3262.1	3230.9	3168.6	2922.7	2635.3	2401.5	2285.5	2283.8	2309.8	2332.3	2335.8
32.5°	3367.7	3353.9	3251.7	2867.3	2479.5	2212.8	2114.1	2121.1	2167.8	2199.0	2204.2
35°	3450.8	3473.3	3321.0	2775.5	2294.2	2034.5	1956.6	1960.0	1986.0	2029.3	2031.0
37.5°	3568.6	3644.7	3383.3	2635.3	2081.2	1880.4	1809.4	1783.4	1780.0	1792.1	1795.5
40°	3805.8	3920.0	3428.3	2431.0	1875.2	1741.9	1662.2	1612.0	1568.7	1535.8	1525.4
42.5°	4164.2	4295.8	3454.3	2183.4	1691.6	1605.1	1515.0	1451.0	1374.8	1305.5	1281.3
45°	4822.1	4865.4	3454.3	1920.2	1528.9	1476.9	1386.9	1310.7	1213.8	1132.4	1115.1
47.5°	5874.9	5736.4	3457.7	1665.7	1385.2	1364.4	1286.5	1199.9	1092.6	1025.0	1014.6
50°	7460.9	6974.4	3528.7	1454.4	1265.7	1269.2	1212.0	1116.8	1019.8	969.6	961.0
52.5°	9258.2	8499.8	3719.2	1298.6	1165.3	1191.3	1160.1	1068.3	981.7	938.5	929.8
55°	10948.1	9902.3	3882.0	1187.8	1080.4	1125.5	1123.7	1038.9	961.0	917.7	912.5
57.5°	12385.2	10863.2	3857.7	1097.8	1007.7	1064.9	1090.8	1019.8	947.1	910.8	905.6
60°	13278.6	11372.3	3513.2	1014.6	952.3	1021.6	1071.8	1014.6	954.0	945.4	947.1
62.5°	13666.5	11278.8	2851.7	952.3	915.9	1000.8	1092.6	1051.0	1018.1	1038.9	1051.0
65°	13063.9	10475.4	2098.5	905.6	881.3	1006.0	1141.0	1108.1	1018.1	1032.0	1037.2
67.5°	11391.3	8917.1	1516.8	858.8	838.0	1021.6	1210.3	1099.5	959.2	959.2	948.8
70°	8208.9	6413.4	1101.2	812.1	794.7	999.1	1213.8	1040.6	891.7	886.5	860.5
72.5°	4939.9	3783.3	858.8	760.1	728.9	886.5	1137.6	971.4	825.9	782.6	751.5
75°	2566.0	1896.0	720.3	703.0	625.1	751.5	1040.6	864.0	706.4	668.3	651.0
77.5°	1099.5	886.5	618.1	626.8	519.4	632.0	839.8	748.0	626.8	578.3	562.7
80°	542.0	503.9	488.3	502.1	415.6	488.3	723.8	654.5	531.6	476.2	453.6
82.5°	309.9	294.3	351.5	356.7	296.1	408.6	611.2	554.1	439.8	379.2	342.8
85°	143.7	154.1	213.0	214.7	183.5	280.5	400.0	311.7	233.7	193.9	185.3
87.5°	57.1	67.5	93.5	91.8	53.7	51.9	34.6	19.0	15.6	13.9	12.1
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)