

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: P641968

Luminaire Tested: GWS-SA6B-830-U-T3R-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641968  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-15)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA6B-830-U-T3R-W  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS  
Light Source: (96) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

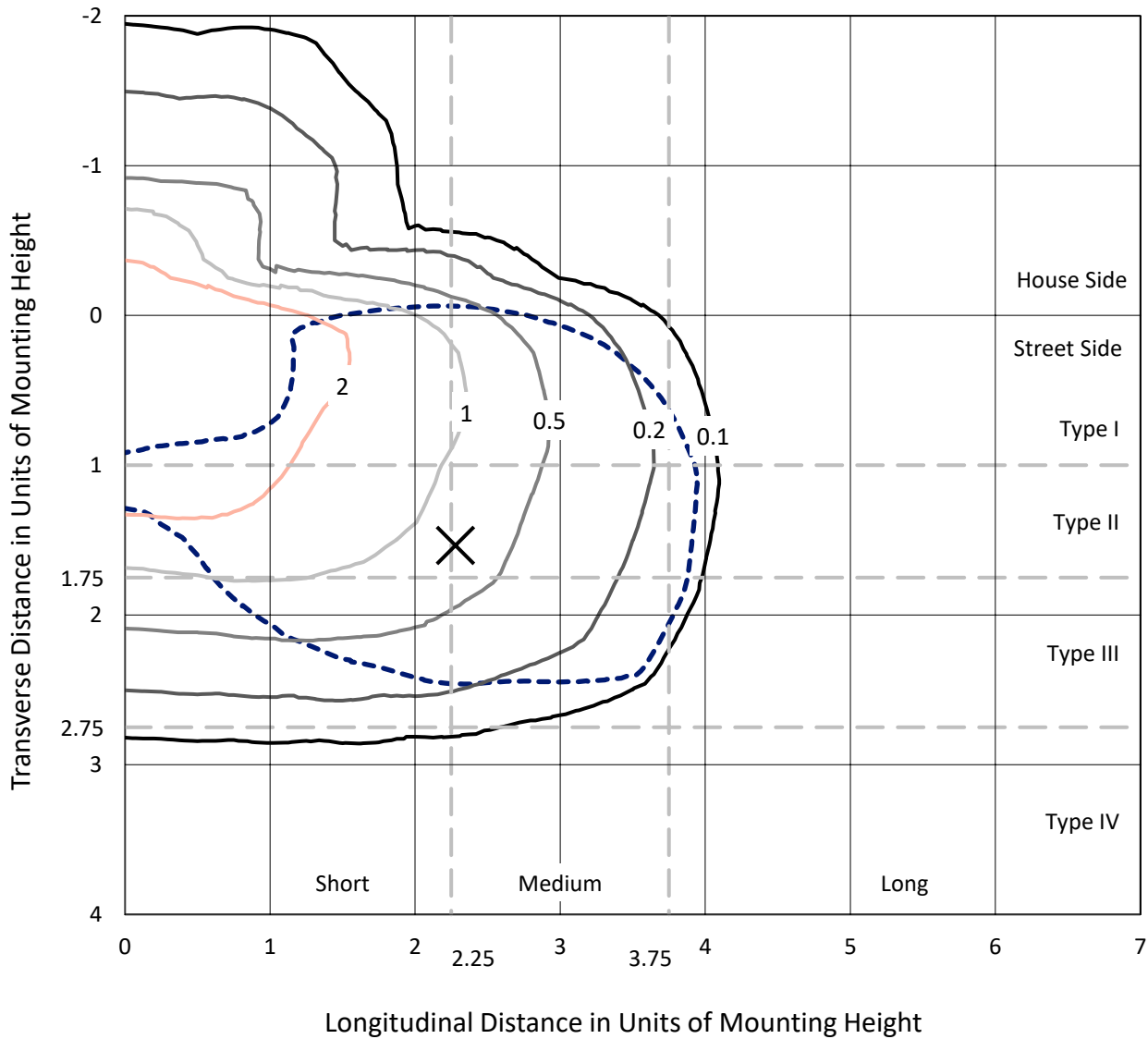
Lumens per Lamp: N/A  
Luminaire Lumens: 17098.4 lumens  
Efficiency: N/A  
Efficacy: 123.1 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 138.9  
Input Voltage (V): 120  
Input Current (Ain): 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

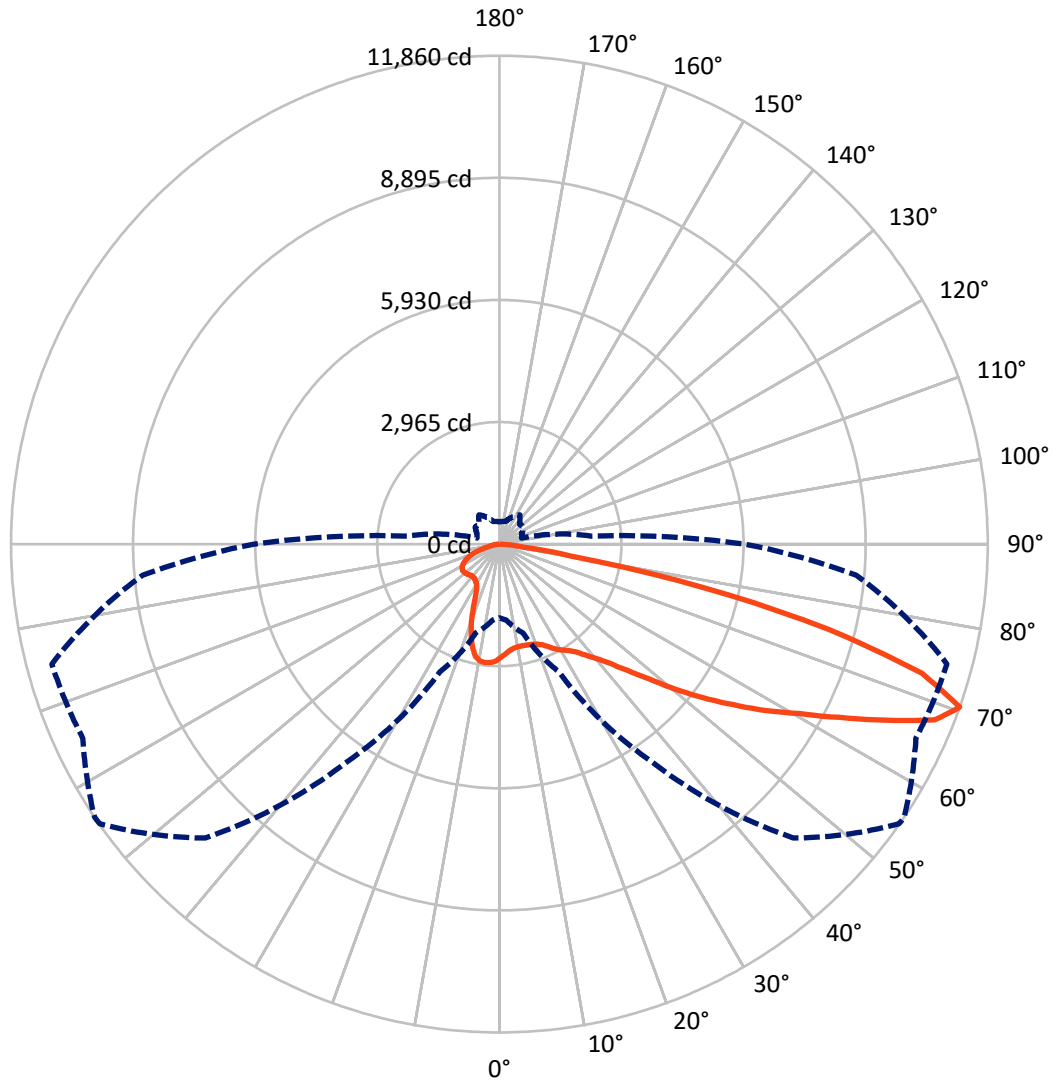
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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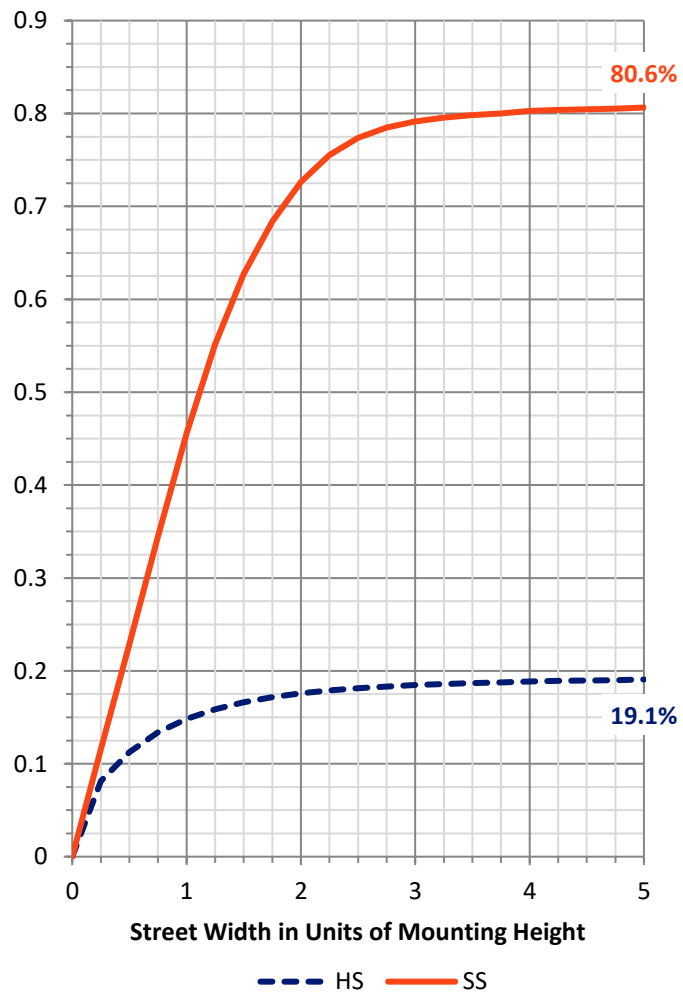
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3287.2	0.0	3287.2
	% Fixture	19.2	0.0	19.2
<b>Street Side</b>	Lumens	13811.2	0.0	13811.2
	% Fixture	80.8	0.0	80.8
<b>Total</b>	Lumens	17098.4	0.0	17098.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	255.4	1.5
10°-20°	692.0	4.0
20°-30°	1144.1	6.7
30°-40°	1710.6	10.0
40°-50°	2545.6	14.9
50°-60°	3619.1	21.2
60°-70°	4482.3	26.2
70°-80°	2475.0	14.5
80°-90°	174.3	1.0
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°	17098.4	100.0
0°-180°	17098.4	100.0

**Coefficient of Utilization**



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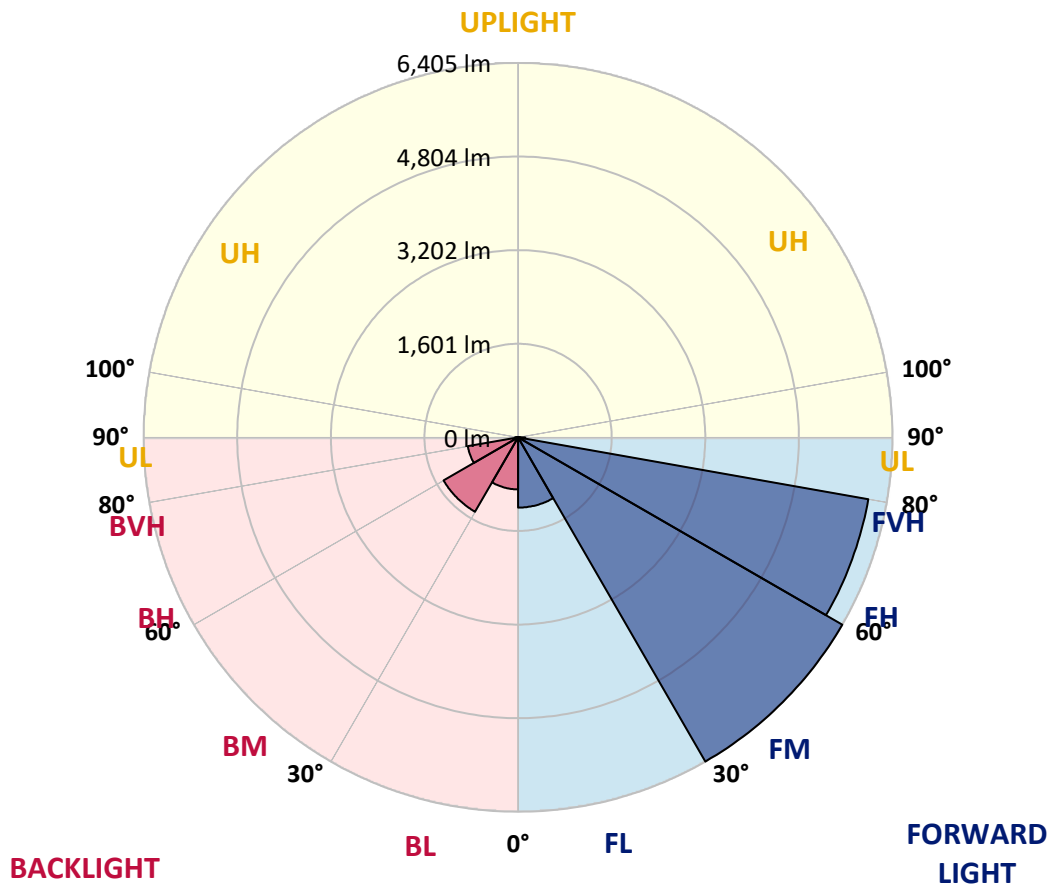
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1201.7	7.0			
FM (30°-60°)	6404.8	37.5			
FH (60°-80°)	6083.6	35.6			G3/7500
FVH (80°-90°)	121.1	0.7			G2/225
BL (0°-30°)	889.9	5.2	B2/1000		
BM (30°-60°)	1470.4	8.6	B2/2500		
BH (60°-80°)	873.7	5.1	B2/1000		G2/1000
BVH (80°-90°)	53.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2759.9	2759.9	2759.9	2759.9	2759.9	2759.9	2759.9	2759.9	2759.9	2759.9	2759.9
2.5°	2582.7	2568.2	2585.1	2593.6	2615.3	2646.6	2674.3	2675.5	2690.0	2725.0	2758.7
5°	2465.7	2458.5	2463.3	2488.7	2511.6	2551.4	2593.6	2597.2	2638.2	2706.9	2774.4
7.5°	2375.3	2365.7	2383.8	2416.3	2445.2	2489.9	2545.3	2550.1	2608.0	2711.7	2815.4
10°	2245.1	2237.9	2271.6	2315.0	2377.7	2451.3	2524.8	2530.9	2606.8	2743.1	2887.8
12.5°	2188.4	2188.4	2202.9	2243.9	2312.6	2410.3	2521.2	2530.9	2626.1	2791.3	2980.6
15°	2276.4	2282.5	2270.4	2268.0	2295.7	2388.6	2526.0	2540.5	2662.3	2840.7	3072.2
17.5°	2453.7	2459.7	2428.4	2378.9	2351.2	2409.1	2544.1	2559.8	2700.9	2895.0	3171.1
20°	2702.1	2709.3	2640.6	2564.6	2469.4	2468.2	2579.1	2593.6	2750.3	2954.1	3276.0
22.5°	2992.7	2997.5	2910.7	2790.1	2644.2	2577.9	2639.4	2653.8	2814.2	3036.1	3389.3
25°	3329.1	3343.5	3238.6	3063.8	2866.1	2728.6	2739.4	2756.3	2928.7	3145.8	3523.2
27.5°	3688.4	3706.5	3585.9	3393.0	3120.5	2895.0	2868.5	2882.9	3050.5	3213.3	3594.3
30°	4056.1	4069.4	3948.8	3728.2	3394.2	3083.1	2977.0	2985.4	3103.6	3245.9	3666.7
32.5°	4464.9	4454.0	4338.3	4083.9	3710.1	3308.6	3078.3	3075.8	3162.7	3311.0	3770.4
35°	4848.3	4864.0	4741.0	4460.0	4057.3	3587.1	3230.2	3220.5	3288.1	3417.1	3916.3
37.5°	5312.5	5307.7	5160.6	4856.7	4405.8	3853.6	3443.6	3426.7	3450.8	3582.3	4120.0
40°	5644.1	5677.8	5582.6	5299.2	4813.3	4181.5	3693.2	3655.8	3661.8	3786.0	4392.5
42.5°	5915.4	5946.7	5956.4	5775.5	5279.9	4586.6	4004.3	3966.9	3970.5	4146.5	4727.7
45°	6124.0	6166.2	6302.4	6249.4	5805.7	5054.5	4425.1	4386.5	4388.9	4584.2	5132.8
47.5°	6209.6	6255.4	6531.5	6658.1	6363.9	5613.9	4948.4	4891.7	4900.1	5116.0	5595.9
50°	6181.8	6243.3	6617.1	6972.8	6831.7	6183.0	5574.1	5534.4	5501.8	5815.3	6098.6
52.5°	5943.1	6010.6	6608.7	7173.0	7214.0	6720.8	6220.4	6197.5	6190.3	6558.0	6660.5
55°	5240.2	5353.5	6318.1	7226.0	7513.0	7227.2	6921.0	6882.4	6919.8	7353.8	7228.4
57.5°	4850.7	4935.1	5749.0	7166.9	7757.7	7709.5	7620.3	7623.9	7666.1	8218.3	7916.9
60°	4628.8	4727.7	5433.1	7005.4	7992.9	8295.5	8352.2	8352.2	8428.1	9150.4	8616.2
62.5°	4334.6	4434.7	5137.7	6694.3	8209.9	8985.2	9272.2	9268.5	9298.7	10149.9	9299.9
65°	3737.8	3830.6	4544.4	6203.5	8316.0	9744.8	10317.5	10306.7	10246.4	11039.8	9752.0
67.5°	2714.1	2802.1	3481.0	5270.3	7933.8	10357.3	11394.3	11399.1	11038.6	11600.4	9776.2
70°	1789.3	1849.6	2237.9	3423.1	6451.9	10093.3	11845.2	11859.7	11160.4	11250.8	8700.6
72.5°	1116.5	1158.7	1397.5	2041.3	3812.6	7989.3	10687.7	10727.5	10040.2	9887.1	7148.8
75°	741.5	770.5	929.6	1190.1	1764.0	4323.8	8124.3	8252.1	8047.1	7750.5	4980.9
77.5°	446.1	470.2	592.0	756.0	781.3	1689.2	4742.2	5072.6	5101.5	4046.5	2085.9
80°	203.8	231.5	326.8	431.7	416.0	588.4	1672.4	1749.5	2064.2	1285.3	658.3
82.5°	120.6	132.6	217.0	214.6	177.2	285.8	601.7	617.3	524.5	470.2	280.9
85°	48.2	56.7	91.6	80.8	65.1	92.8	226.7	237.5	227.9	205.0	103.7
87.5°	0.0	0.0	0.0	0.0	1.2	2.4	20.5	21.7	31.3	56.7	31.3
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°	2759.9	2759.9	2759.9	2759.9	2759.9	2759.9	2759.9	2759.9	2759.9	2759.9	2759.9
2.5°	2780.4	2773.2	2809.4	2837.1	2849.2	2861.2	2850.4	2846.8	2846.8	2822.6	2810.6
5°	2810.6	2814.2	2863.6	2886.5	2886.5	2876.9	2848.0	2827.5	2820.2	2788.9	2780.4
7.5°	2867.3	2882.9	2928.7	2927.5	2893.8	2840.7	2768.4	2712.9	2662.3	2640.6	2627.3
10°	2960.1	2980.6	3011.9	2961.3	2867.3	2727.4	2574.3	2453.7	2381.3	2323.5	2323.5
12.5°	3066.2	3085.5	3079.5	2962.5	2768.4	2506.7	2286.1	2147.4	2046.1	1993.1	1993.1
15°	3172.3	3188.0	3122.9	2907.0	2562.2	2213.7	1972.6	1806.2	1718.2	1668.7	1668.7
17.5°	3279.6	3278.4	3141.0	2779.2	2293.3	1889.4	1653.1	1524.1	1493.9	1485.5	1484.3
20°	3383.3	3355.6	3118.1	2565.8	1981.0	1562.6	1413.1	1421.6	1466.2	1485.5	1487.9
22.5°	3500.3	3431.5	3050.5	2293.3	1626.5	1336.0	1345.6	1415.5	1480.7	1509.6	1513.2
25°	3619.6	3496.7	2937.2	1973.8	1329.9	1252.8	1327.5	1405.9	1479.4	1516.8	1520.4
27.5°	3667.9	3496.7	2744.3	1603.6	1172.0	1217.8	1299.8	1375.8	1452.9	1496.3	1504.8
30°	3707.7	3466.5	2474.2	1269.6	1106.9	1184.0	1255.2	1325.1	1401.1	1454.1	1463.8
32.5°	3763.1	3440.0	2147.4	1067.1	1076.7	1151.5	1200.9	1260.0	1328.7	1363.7	1360.1
35°	3828.2	3399.0	1753.1	970.6	1051.4	1123.8	1158.7	1193.7	1162.3	1161.1	1164.7
37.5°	3921.1	3362.8	1409.5	927.2	1034.5	1104.5	1133.4	1058.6	1015.2	997.1	989.9
40°	4054.9	3348.3	1111.7	901.9	1032.1	1103.3	1082.8	967.0	907.9	845.2	844.0
42.5°	4223.7	3337.5	918.8	889.8	1040.6	1131.0	1012.8	906.7	784.9	757.2	754.8
45°	4440.7	3320.6	822.3	887.4	1061.1	1152.7	1005.6	823.5	740.3	728.3	728.3
47.5°	4702.4	3294.1	778.9	887.4	1084.0	1143.0	983.9	805.4	719.8	733.1	741.5
50°	5002.6	3260.3	756.0	885.0	1106.9	1143.0	938.1	801.8	715.0	783.7	811.5
52.5°	5323.4	3221.7	740.3	875.4	1122.5	1144.2	940.5	813.9	719.8	795.8	818.7
55°	5677.8	3215.7	718.6	854.9	1127.4	1112.9	946.5	840.4	727.1	721.0	722.2
57.5°	6125.2	3288.1	702.9	824.7	1108.1	1049.0	958.6	859.7	718.6	719.8	728.3
60°	6593.0	3424.3	716.2	795.8	1068.3	988.7	967.0	850.0	677.6	658.3	660.7
62.5°	6990.9	3528.0	727.1	782.5	1010.4	935.7	958.6	828.3	654.7	649.9	660.7
65°	7157.3	3442.4	700.5	754.8	926.0	870.5	940.5	800.6	635.4	617.3	618.5
67.5°	6972.8	3040.9	648.7	693.3	830.8	787.3	911.5	764.4	608.9	587.2	582.4
70°	5956.4	2234.2	559.5	595.6	715.0	689.7	866.9	717.4	566.7	551.0	540.2
72.5°	4800.1	1581.9	464.2	473.9	560.7	581.2	789.8	658.3	518.5	473.9	458.2
75°	3341.1	993.5	387.0	377.4	405.1	443.7	616.1	546.2	447.3	400.3	385.8
77.5°	1437.2	510.0	302.6	297.8	270.1	307.5	472.7	455.8	375.0	320.7	312.3
80°	481.1	295.4	218.2	209.8	179.7	215.8	332.8	364.1	294.2	237.5	223.1
82.5°	241.1	171.2	138.7	125.4	120.6	136.2	196.5	226.7	203.8	164.0	138.7
85°	118.2	97.7	76.0	74.8	62.7	59.1	82.0	96.5	91.6	67.5	63.9
87.5°	43.4	38.6	24.1	19.3	12.1	8.4	4.8	4.8	3.6	3.6	3.6
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)