

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: P633356

Luminaire Tested: GWS-SA2E-750-U-SL2-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P633356  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-30)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2E-750-U-SL2-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (32) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

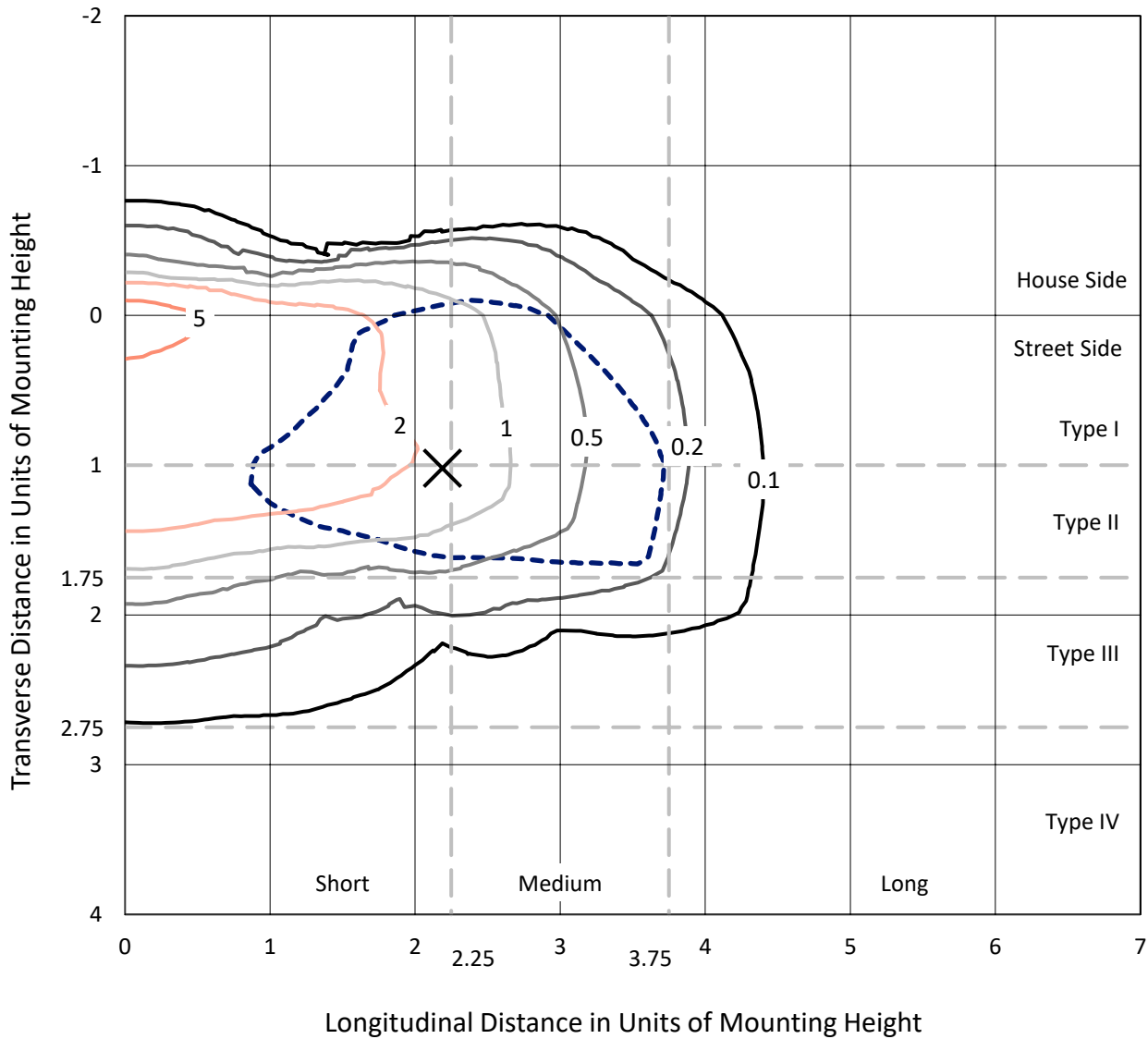
Lumens per Lamp: N/A  
Luminaire Lumens: 11831.6 lumens  
Efficiency: N/A  
Efficacy: 109.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 108.2  
Input Voltage (V): 120  
Input Current (Ain): 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

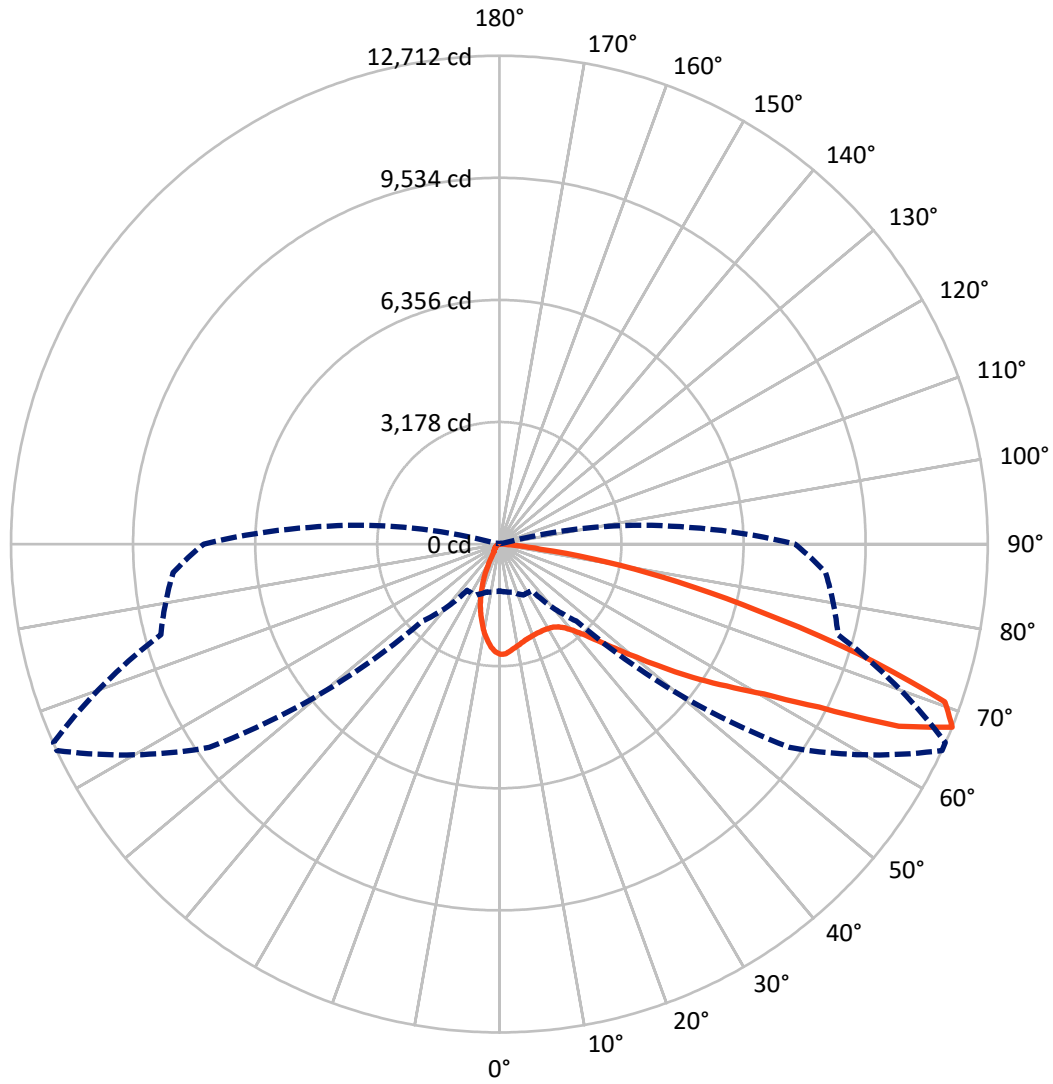
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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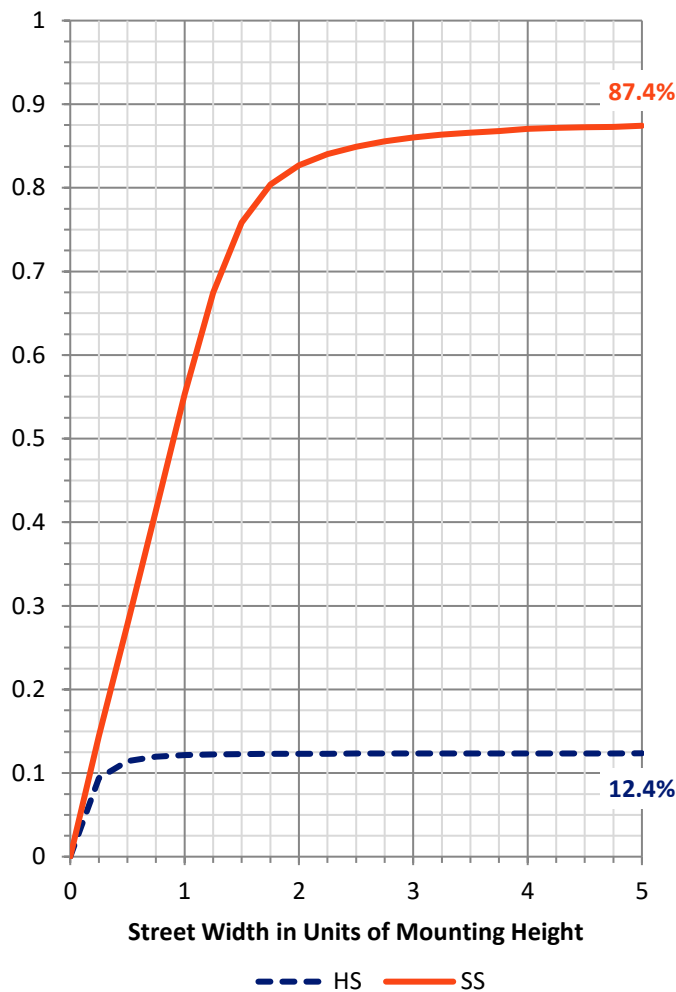
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1477.4	0.0	1477.4
	% Fixture	12.5	0.0	12.5
<b>Street Side</b>	Lumens	10354.2	0.0	10354.2
	% Fixture	87.5	0.0	87.5
<b>Total</b>	Lumens	11831.6	0.0	11831.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	238.3	2.0
10°-20°	535.8	4.5
20°-30°	765.6	6.5
30°-40°	1113.8	9.4
40°-50°	1744.4	14.7
50°-60°	2721.3	23.0
60°-70°	2989.2	25.3
70°-80°	1590.8	13.4
80°-90°	132.4	1.1
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°	11831.6	100.0
0°-180°	11831.6	100.0

**Coefficient of Utilization**



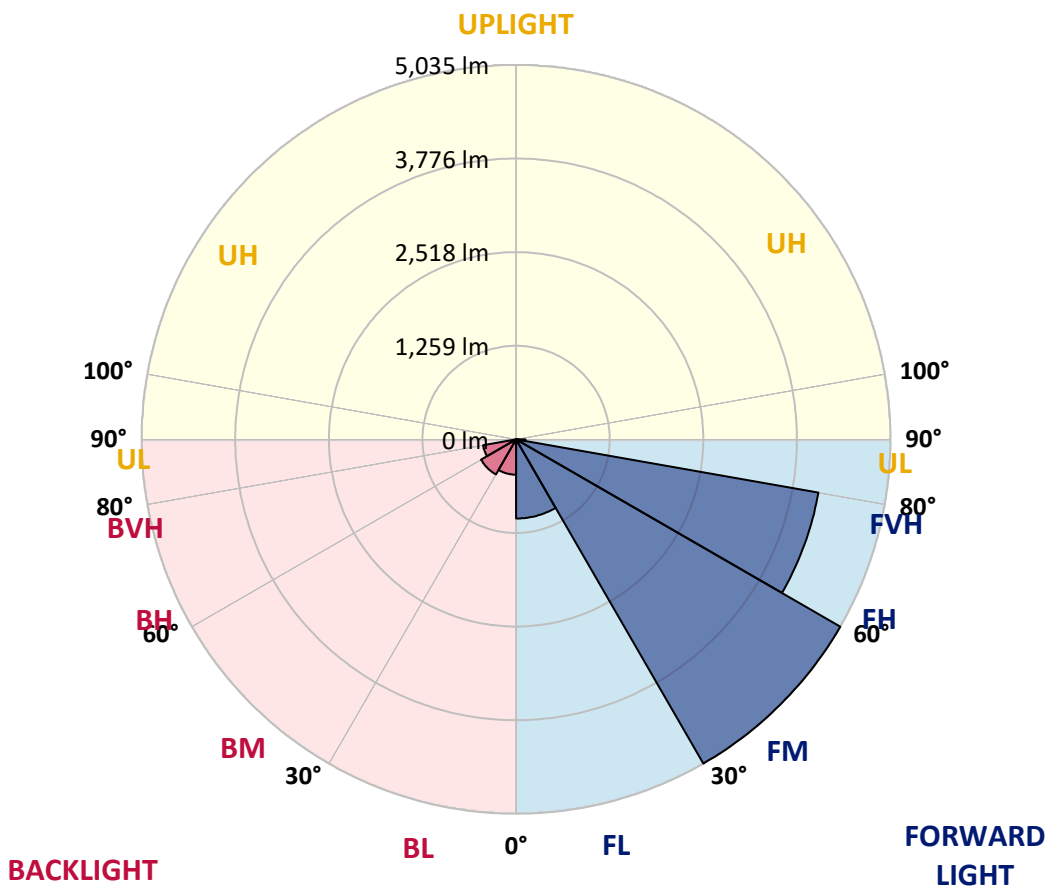
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1064.8	9.0			
FM (30°-60°)	5035.3	42.6			
FH (60°-80°)	4128.8	34.9			G2/5000
FVH (80°-90°)	125.4	1.1			G2/225
BL (0°-30°)	474.9	4.0	B1/500		
BM (30°-60°)	544.2	4.6	B1/1000		
BH (60°-80°)	451.3	3.8	B1/500		G1/500
BVH (80°-90°)	7.1	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2869.5	2869.5	2869.5	2869.5	2869.5	2869.5	2869.5	2869.5	2869.5	2869.5	2869.5
2.5°	2770.0	2778.6	2766.8	2795.7	2801.1	2833.2	2851.3	2864.2	2863.1	2879.2	2879.2
5°	2607.4	2616.0	2609.5	2640.6	2665.2	2715.5	2757.2	2805.3	2807.5	2856.7	2874.9
7.5°	2469.4	2470.5	2470.5	2509.0	2541.1	2603.1	2665.2	2739.0	2747.6	2823.5	2871.7
10°	2356.0	2359.2	2360.3	2404.1	2439.4	2514.3	2593.5	2682.3	2691.9	2794.6	2869.5
12.5°	2277.9	2278.9	2283.2	2329.2	2367.7	2445.8	2526.1	2627.7	2640.6	2761.5	2859.9
15°	2240.4	2238.3	2240.4	2278.9	2317.5	2392.3	2474.7	2583.9	2597.8	2733.7	2861.0
17.5°	2238.3	2235.1	2232.9	2261.8	2286.4	2352.8	2436.2	2555.0	2570.0	2720.8	2872.7
20°	2269.3	2267.2	2256.5	2269.3	2274.7	2329.2	2411.6	2532.5	2547.5	2718.7	2898.4
22.5°	2350.6	2345.3	2329.2	2317.5	2288.6	2320.7	2394.5	2516.5	2533.6	2724.0	2931.6
25°	2471.5	2469.4	2449.1	2420.2	2346.3	2333.5	2395.6	2516.5	2532.5	2730.4	2966.9
27.5°	2653.4	2640.6	2614.9	2564.6	2458.7	2383.8	2417.0	2522.9	2538.9	2739.0	2995.8
30°	2838.5	2837.4	2828.9	2777.5	2620.2	2480.1	2461.9	2540.0	2555.0	2746.5	3022.5
32.5°	3030.0	3033.2	3054.6	3015.0	2842.8	2623.5	2543.2	2575.3	2586.0	2761.5	3046.1
35°	3211.9	3218.3	3275.0	3288.9	3113.5	2840.6	2675.9	2645.9	2647.0	2794.6	3077.1
37.5°	3386.3	3407.7	3498.7	3566.1	3450.5	3103.8	2867.4	2765.8	2757.2	2861.0	3124.2
40°	3584.2	3624.9	3739.4	3853.9	3817.5	3451.6	3128.5	2949.8	2931.6	2982.9	3208.7
42.5°	3803.6	3847.4	3999.4	4159.9	4177.0	3872.1	3454.8	3218.3	3187.3	3188.4	3367.1
45°	4039.0	4097.8	4274.3	4505.4	4609.2	4340.7	3857.1	3581.0	3550.0	3504.0	3621.7
47.5°	4348.2	4399.5	4569.6	4836.1	5035.1	4843.5	4384.5	4047.5	3990.8	3923.4	4017.6
50°	4614.6	4659.5	4806.1	5139.9	5554.0	5491.9	4982.6	4630.6	4576.1	4461.6	4539.7
52.5°	4673.4	4708.7	4843.5	5219.1	5950.9	6310.4	5715.5	5335.7	5297.2	5085.3	5115.3
55°	4409.2	4462.7	4583.6	5000.8	6054.7	7110.7	6666.7	6130.7	6050.4	5712.3	5765.8
57.5°	3741.5	3836.7	3950.2	4492.6	5773.3	7536.5	7995.5	6972.7	6899.9	6315.8	6316.8
60°	2742.2	2819.2	2895.2	3391.7	5105.7	7507.7	9201.3	7918.5	7785.8	6809.0	6790.8
62.5°	1994.3	2033.9	2032.9	2209.4	3506.1	7013.4	9834.7	9343.6	9034.4	7336.5	7232.7
65°	1568.5	1567.4	1613.4	1671.2	1958.0	5413.8	9912.8	11424.6	11090.8	8043.7	7827.6
67.5°	1220.8	1244.3	1290.3	1460.4	1471.1	2833.2	9226.0	12711.8	12705.3	9123.2	8524.1
70°	941.5	973.6	1038.9	1287.1	1358.8	1585.6	6903.1	12304.1	12407.9	9605.8	8030.8
72.5°	604.5	602.4	698.7	1040.0	1305.3	1321.4	3817.5	9773.8	9891.4	8700.6	6493.4
75°	338.1	340.2	394.8	636.6	1216.5	1243.3	1890.6	6969.5	7062.6	6783.3	4989.1
77.5°	132.7	137.0	185.1	334.9	802.4	1110.6	1123.4	4752.6	4766.5	4203.7	3060.0
80°	53.5	56.7	94.2	207.6	489.0	747.9	802.4	2800.0	2743.3	1627.4	890.2
82.5°	16.0	17.1	37.4	117.7	255.7	531.8	541.4	1074.2	1014.3	349.9	226.8
85°	1.1	1.1	8.6	36.4	90.9	133.7	360.6	349.9	310.3	87.7	100.6
87.5°	0.0	0.0	1.1	1.1	2.1	4.3	38.5	64.2	65.3	16.0	44.9
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°	2869.5	2869.5	2869.5	2869.5	2869.5	2869.5	2869.5	2869.5	2869.5	2869.5	2869.5
2.5°	2879.2	2840.6	2837.4	2807.5	2777.5	2740.1	2696.2	2664.1	2641.6	2602.1	2594.6
5°	2874.9	2823.5	2775.4	2689.8	2594.6	2491.9	2402.0	2318.5	2266.1	2230.8	2215.8
7.5°	2866.3	2801.1	2689.8	2528.2	2368.8	2189.1	2048.9	1920.5	1832.8	1781.4	1759.0
10°	2859.9	2772.2	2591.4	2346.3	2099.2	1851.0	1638.1	1447.6	1341.7	1258.2	1244.3
12.5°	2847.1	2730.4	2465.1	2133.4	1814.6	1485.1	1213.3	980.1	818.5	745.7	720.1
15°	2834.2	2686.6	2338.9	1908.7	1504.3	1097.7	768.2	543.5	432.2	398.0	395.9
17.5°	2832.1	2647.0	2201.9	1695.8	1179.1	719.0	437.6	352.0	328.5	319.9	319.9
20°	2838.5	2613.8	2067.1	1450.8	859.1	437.6	326.3	304.9	291.0	283.5	283.5
22.5°	2844.9	2579.6	1937.6	1203.7	570.3	319.9	287.8	269.6	253.6	245.0	240.7
25°	2849.2	2542.1	1794.3	955.4	372.3	278.2	252.5	229.0	209.7	199.0	199.0
27.5°	2848.1	2497.2	1649.8	712.6	288.9	247.2	216.1	191.5	172.3	160.5	161.6
30°	2839.6	2448.0	1500.0	497.5	252.5	216.1	185.1	159.4	140.2	130.5	129.5
32.5°	2833.2	2395.6	1326.7	349.9	226.8	189.4	157.3	132.7	116.6	109.1	108.1
35°	2825.7	2344.2	1161.9	266.4	204.4	163.7	132.7	112.3	99.5	93.1	93.1
37.5°	2827.8	2290.7	983.3	229.0	181.9	142.3	113.4	96.3	85.6	79.2	78.1
40°	2861.0	2258.6	807.8	207.6	161.6	123.0	98.4	83.5	72.8	66.3	65.3
42.5°	2943.4	2259.7	639.8	191.5	143.4	104.9	85.6	71.7	62.1	54.6	53.5
45°	3108.1	2304.6	491.1	174.4	124.1	90.9	73.8	61.0	51.4	44.9	43.9
47.5°	3377.7	2438.4	372.3	159.4	108.1	79.2	63.1	51.4	42.8	37.4	36.4
50°	3806.8	2680.2	293.2	141.2	90.9	68.5	53.5	42.8	35.3	30.0	28.9
52.5°	4322.5	3042.9	251.4	125.2	78.1	59.9	46.0	35.3	28.9	24.6	23.5
55°	4915.2	3476.2	232.2	109.1	66.3	51.4	37.4	28.9	23.5	20.3	18.2
57.5°	5458.8	3866.7	231.1	93.1	56.7	43.9	31.0	24.6	20.3	16.0	15.0
60°	5988.4	4193.0	217.2	77.0	49.2	36.4	26.7	20.3	17.1	13.9	12.8
62.5°	6468.8	4458.4	181.9	62.1	41.7	30.0	22.5	18.2	15.0	11.8	11.8
65°	7072.2	4796.5	139.1	50.3	34.2	24.6	19.3	16.0	13.9	10.7	10.7
67.5°	7696.0	4975.1	99.5	41.7	27.8	21.4	17.1	15.0	11.8	9.6	9.6
70°	6970.6	4203.7	71.7	34.2	23.5	18.2	15.0	13.9	11.8	9.6	8.6
72.5°	5443.8	3031.1	53.5	26.7	20.3	17.1	13.9	12.8	10.7	8.6	8.6
75°	4036.8	1767.5	40.7	21.4	16.0	13.9	13.9	12.8	10.7	8.6	7.5
77.5°	2194.4	616.3	31.0	17.1	12.8	10.7	11.8	11.8	9.6	7.5	6.4
80°	581.0	169.0	21.4	12.8	10.7	8.6	8.6	10.7	8.6	6.4	6.4
82.5°	169.0	49.2	15.0	10.7	8.6	7.5	7.5	7.5	6.4	5.3	4.3
85°	82.4	18.2	10.7	8.6	7.5	6.4	5.3	5.3	4.3	3.2	3.2
87.5°	36.4	7.5	8.6	7.5	7.5	5.3	4.3	3.2	3.2	2.1	1.1
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)