

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: P639357

Luminaire Tested: GWS-SA5B-760-U-SL4-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639357  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-36)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5B-760-U-SL4-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (80) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

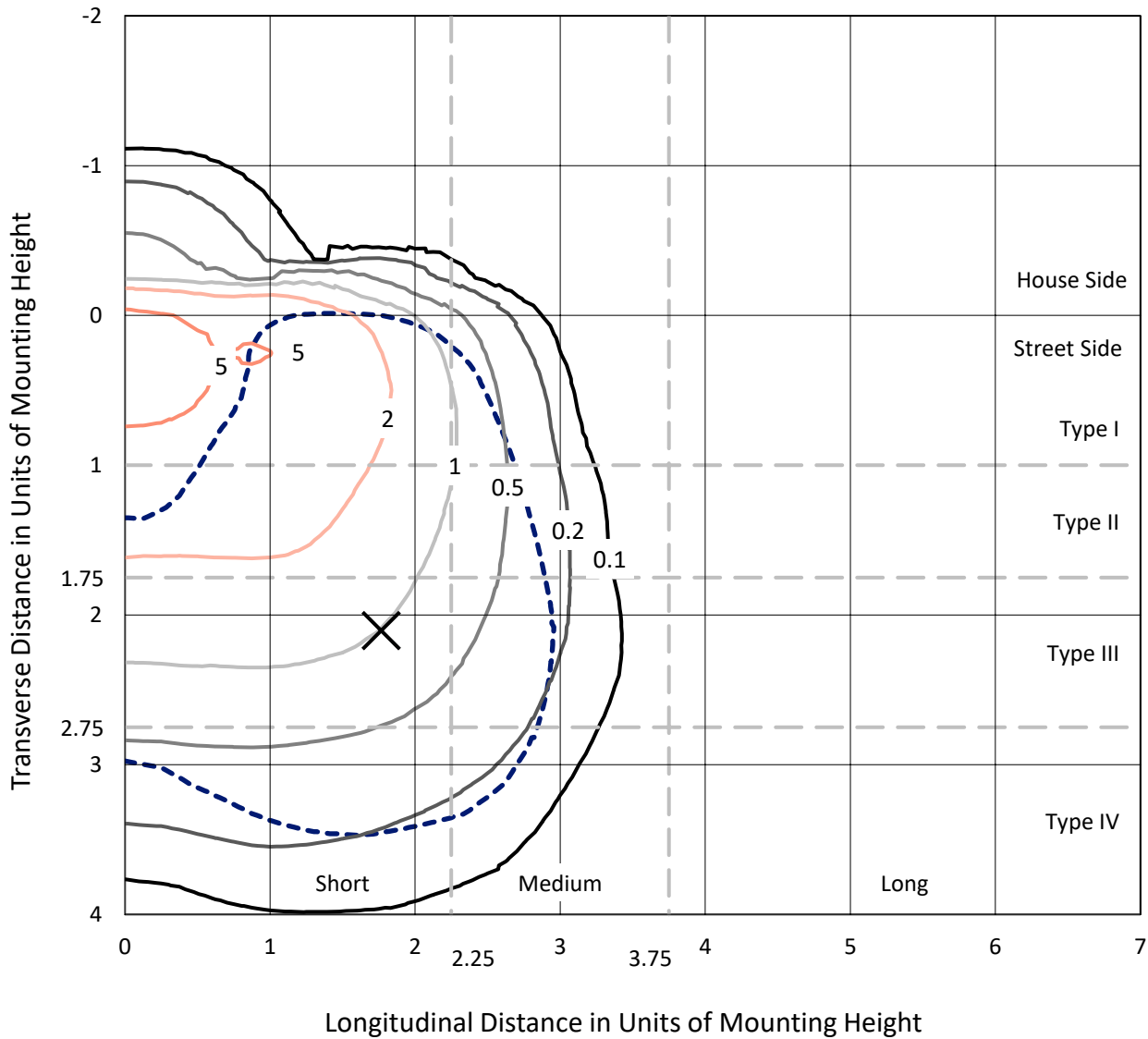
Lumens per Lamp: N/A  
Luminaire Lumens: 14114.5 lumens  
Efficiency: N/A  
Efficacy: 122.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 115.7  
Input Voltage (V): 120  
Input Current (Ain): 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

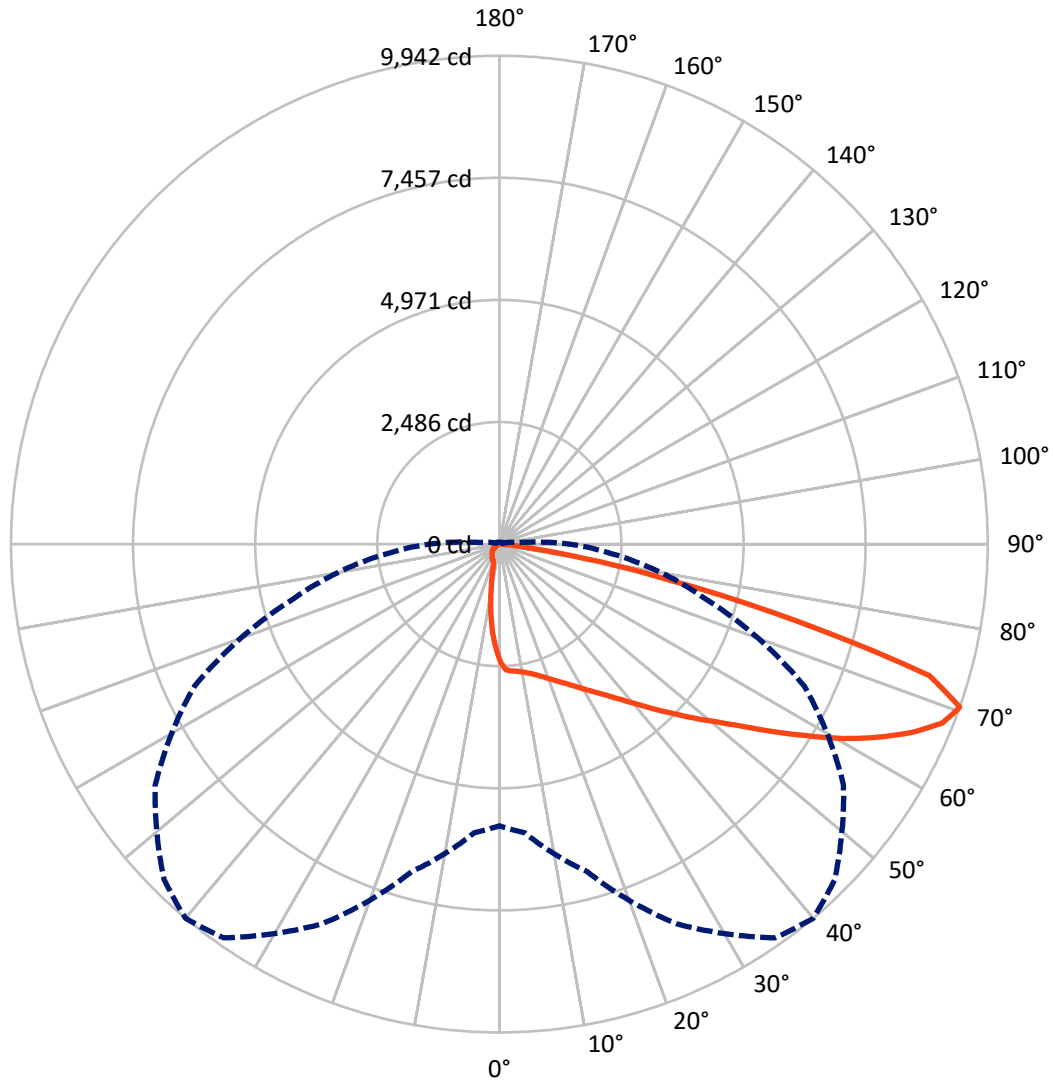
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.5 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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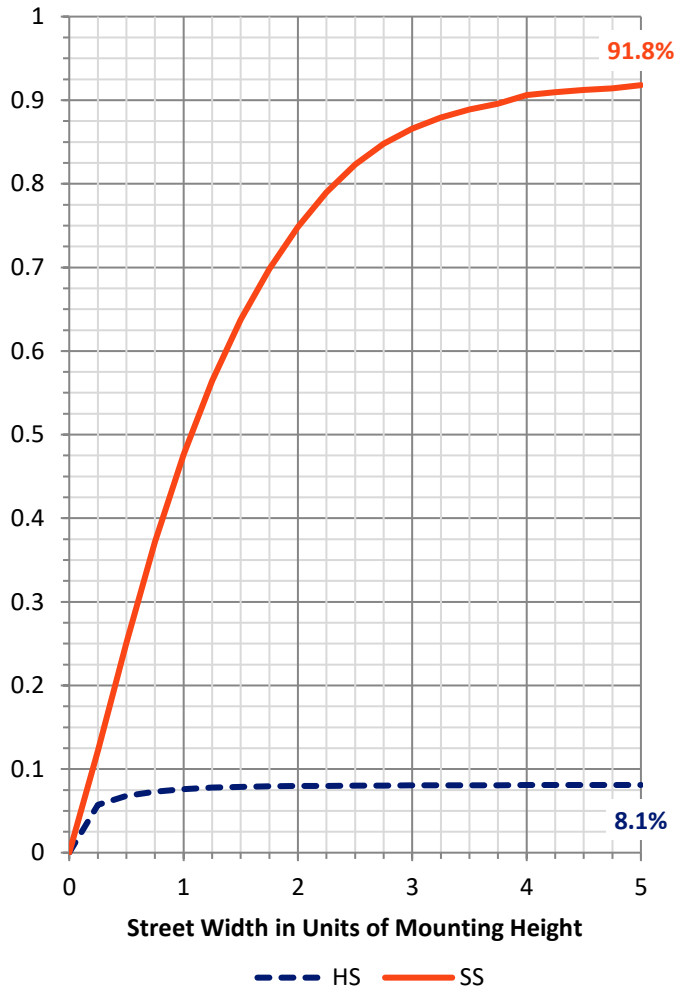
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1154.2	0.0	1154.2
	% Fixture	8.2	0.0	8.2
<b>Street Side</b>	Lumens	12960.3	0.0	12960.3
	% Fixture	91.8	0.0	91.8
<b>Total</b>	Lumens	14114.5	0.0	14114.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	202.4	1.4
10°-20°	513.4	3.6
20°-30°	859.3	6.1
30°-40°	1349.6	9.6
40°-50°	2134.8	15.1
50°-60°	3114.1	22.1
60°-70°	3860.3	27.4
70°-80°	1953.1	13.8
80°-90°	127.5	0.9
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°	14114.5	100.0
0°-180°	14114.5	100.0

**Coefficient of Utilization**



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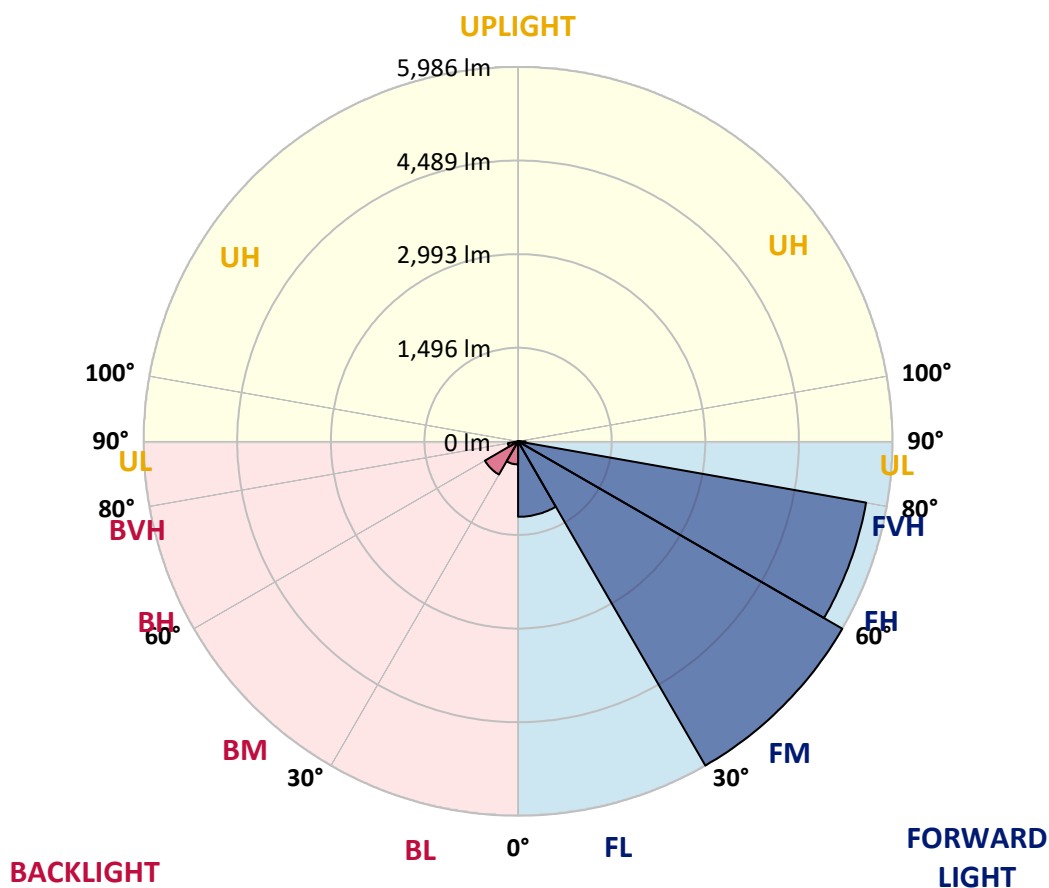
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1206.5	8.5			
FM (30°-60°)	5985.8	42.4			
FH (60°-80°)	5648.9	40.0			G3/7500
FVH (80°-90°)	119.1	0.8			G2/225
BL (0°-30°)	368.6	2.6	B1/500		
BM (30°-60°)	612.6	4.3	B1/1000		
BH (60°-80°)	164.6	1.2	B1/500		G1/500
BVH (80°-90°)	8.4	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-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	2395.1	2395.1	2395.1	2395.1	2395.1	2395.1	2395.1	2395.1	2395.1	2395.1	2395.1
2.5°	2574.9	2583.8	2582.6	2586.4	2577.4	2563.3	2560.7	2541.5	2506.8	2463.1	2414.3
5°	2627.5	2637.8	2630.1	2626.2	2609.5	2594.1	2590.3	2569.7	2529.9	2470.8	2386.1
7.5°	2672.5	2675.0	2669.9	2660.9	2636.5	2615.9	2601.8	2573.6	2526.1	2467.0	2369.4
10°	2680.2	2678.9	2681.4	2682.7	2667.3	2649.3	2637.8	2599.3	2538.9	2476.0	2370.7
12.5°	2671.2	2671.2	2687.9	2707.1	2707.1	2698.1	2686.6	2651.9	2581.3	2506.8	2396.3
15°	2682.7	2686.6	2718.7	2754.6	2766.2	2757.2	2752.1	2716.1	2642.9	2560.7	2442.6
17.5°	2723.8	2727.7	2779.0	2833.0	2847.1	2836.8	2826.6	2790.6	2712.3	2622.4	2495.2
20°	2784.2	2794.5	2859.9	2929.3	2942.1	2929.3	2908.7	2858.7	2780.3	2689.1	2545.3
22.5°	2894.6	2901.0	2971.7	3044.9	3051.3	3030.7	2999.9	2930.6	2848.4	2759.8	2601.8
25°	3041.0	3050.0	3120.6	3191.3	3174.6	3143.8	3101.4	3023.0	2929.3	2843.3	2673.7
27.5°	3215.7	3225.9	3295.3	3356.9	3313.3	3277.3	3229.8	3132.2	3037.2	2958.8	2766.2
30°	3404.5	3413.4	3475.1	3530.3	3472.5	3430.1	3373.6	3273.5	3177.1	3118.1	2897.2
32.5°	3586.8	3585.5	3644.6	3689.6	3630.5	3597.1	3545.7	3444.3	3367.2	3341.5	3092.4
35°	3756.3	3756.3	3805.1	3850.1	3807.7	3789.7	3742.2	3661.3	3617.6	3648.5	3353.1
37.5°	3927.1	3918.1	3964.4	4014.5	4010.6	4011.9	3984.9	3946.4	3949.0	4058.1	3711.4
40°	4068.4	4064.5	4118.5	4184.0	4235.3	4276.4	4259.7	4273.9	4354.8	4559.0	4169.8
42.5°	4181.4	4190.4	4259.7	4363.8	4493.5	4576.9	4588.5	4646.3	4854.3	5170.3	4687.4
45°	4311.1	4312.4	4408.7	4568.0	4774.7	4907.0	4953.2	5102.2	5397.6	5804.7	5255.0
47.5°	4470.4	4454.9	4562.8	4786.3	5085.5	5280.7	5362.9	5549.1	6006.3	6423.6	5717.3
50°	4646.3	4618.0	4740.0	5044.4	5433.5	5677.5	5844.5	6116.7	6609.9	6932.2	6061.5
52.5°	4850.5	4823.5	4962.2	5341.1	5850.9	6147.5	6362.0	6636.8	7127.4	7320.0	6267.0
55°	5109.9	5082.9	5229.3	5696.8	6344.0	6729.3	6954.0	7185.2	7609.0	7606.4	6415.9
57.5°	5397.6	5360.3	5563.2	6146.3	6959.2	7359.8	7588.4	7701.4	7975.0	7828.6	6516.1
60°	5727.6	5694.2	5975.5	6681.8	7669.3	8040.5	8184.3	8138.1	8275.5	7959.6	6481.4
62.5°	6025.5	6010.1	6359.4	7249.4	8346.1	8659.5	8699.3	8497.7	8496.4	7962.1	6247.7
65°	6335.0	6364.6	6883.4	7903.1	9026.7	9237.4	9169.3	8854.7	8585.0	7647.5	5556.8
67.5°	6450.6	6536.7	7228.8	8493.8	9563.6	9727.9	9608.5	9033.2	8216.4	6589.3	4231.5
70°	5736.6	5898.4	6902.7	8527.2	9785.7	9942.4	9656.0	8552.9	6850.0	4365.0	2318.0
72.5°	4362.5	4551.3	5752.0	6982.3	8800.7	9157.7	8668.5	6968.2	4415.1	1912.2	778.2
75°	2441.3	2645.5	4284.1	5257.6	5908.7	6234.9	6055.1	4470.4	1955.9	499.6	232.4
77.5°	825.8	893.8	1993.1	3252.9	3900.2	3607.4	3053.9	2220.4	719.2	190.1	123.3
80°	489.3	515.0	742.3	1619.4	2052.2	1701.6	1343.3	820.6	366.0	101.5	86.0
82.5°	146.4	173.4	409.7	601.0	803.9	500.8	423.8	468.7	190.1	55.2	71.9
85°	0.0	0.0	87.3	186.2	210.6	82.2	82.2	265.8	34.7	23.1	52.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.3	6.4	3.9	5.1	11.6
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°	2395.1	2395.1	2395.1	2395.1	2395.1	2395.1	2395.1	2395.1	2395.1	2395.1	2395.1
2.5°	2379.7	2334.7	2282.1	2232.0	2184.5	2122.8	2093.3	2057.3	2026.5	2009.8	2018.8
5°	2332.1	2261.5	2153.6	2044.5	1934.0	1830.0	1736.3	1673.3	1616.8	1587.3	1593.7
7.5°	2291.0	2196.0	2027.8	1849.3	1672.0	1493.5	1348.4	1235.4	1148.1	1112.1	1105.7
10°	2273.1	2153.6	1916.0	1659.2	1387.0	1146.8	941.3	816.8	728.2	684.5	692.2
12.5°	2282.1	2131.8	1821.0	1473.0	1119.8	839.9	643.4	526.5	463.6	437.9	431.5
15°	2307.7	2126.7	1736.3	1282.9	864.3	586.9	444.3	396.8	384.0	381.4	381.4
17.5°	2337.3	2127.9	1648.9	1090.3	656.2	435.3	380.1	371.1	367.3	364.7	366.0
20°	2366.8	2127.9	1548.8	895.1	493.1	376.3	362.1	355.7	351.9	350.6	350.6
22.5°	2402.8	2127.9	1437.0	714.0	395.5	357.0	345.5	341.6	337.7	336.5	335.2
25°	2446.4	2129.2	1313.8	558.6	359.6	340.3	331.3	327.5	323.6	321.1	321.1
27.5°	2509.4	2139.5	1177.6	435.3	339.0	324.9	317.2	313.3	309.5	305.6	305.6
30°	2600.5	2165.2	1024.8	359.6	319.8	308.2	300.5	297.9	294.1	290.2	288.9
32.5°	2736.7	2210.1	866.8	322.3	301.8	290.2	281.2	278.7	274.8	271.0	269.7
35°	2926.7	2292.3	712.7	299.2	278.7	267.1	262.0	260.7	255.6	251.7	251.7
37.5°	3205.4	2425.9	565.1	276.1	259.4	250.4	244.0	241.4	236.3	232.4	231.2
40°	3545.7	2599.3	439.2	258.1	241.4	232.4	226.0	222.2	215.7	210.6	208.0
42.5°	3979.8	2811.1	346.7	238.9	224.7	215.7	210.6	202.9	193.9	186.2	184.9
45°	4431.8	3029.5	286.4	220.9	209.3	201.6	195.2	184.9	172.1	163.1	160.5
47.5°	4778.6	3165.6	250.4	201.6	192.6	186.2	178.5	165.7	150.3	140.0	137.4
50°	5026.4	3186.1	223.5	183.6	178.5	172.1	160.5	145.1	128.4	118.1	115.6
52.5°	5148.4	3093.7	201.6	166.9	163.1	156.7	142.5	125.9	107.9	97.6	95.0
55°	5203.6	2919.0	181.1	152.8	147.7	140.0	124.6	106.6	88.6	79.6	77.1
57.5°	5181.8	2660.9	163.1	138.7	132.3	123.3	106.6	87.3	73.2	64.2	62.9
60°	5020.0	2298.7	145.1	124.6	116.9	106.6	89.9	71.9	59.1	52.7	51.4
62.5°	4670.7	1849.3	127.1	107.9	102.7	92.5	77.1	59.1	48.8	44.9	43.7
65°	3955.4	1307.3	109.2	91.2	88.6	78.3	64.2	48.8	42.4	39.8	38.5
67.5°	2843.3	794.9	92.5	78.3	75.8	66.8	53.9	42.4	38.5	37.2	37.2
70°	1429.3	376.3	73.2	64.2	64.2	55.2	46.2	38.5	37.2	36.0	36.0
72.5°	485.4	160.5	55.2	50.1	52.7	47.5	39.8	36.0	36.0	36.0	36.0
75°	165.7	84.8	38.5	36.0	38.5	38.5	34.7	34.7	36.0	36.0	36.0
77.5°	107.9	56.5	27.0	24.4	29.5	29.5	29.5	32.1	34.7	34.7	34.7
80°	88.6	30.8	18.0	16.7	21.8	21.8	24.4	29.5	32.1	32.1	32.1
82.5°	75.8	19.3	10.3	11.6	15.4	16.7	20.5	24.4	28.3	29.5	29.5
85°	51.4	10.3	7.7	9.0	10.3	12.8	16.7	20.5	23.1	25.7	25.7
87.5°	14.1	3.9	5.1	6.4	6.4	9.0	12.8	15.4	18.0	19.3	19.3
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)