

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: P637057

Luminaire Tested: GWS-SA4C-722-U-T1-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637057
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4C-722-U-T1-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14272.4 lumens
Efficiency: N/A
Efficacy: 111.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Medium
BUG Rating: B3 - U0 - G3

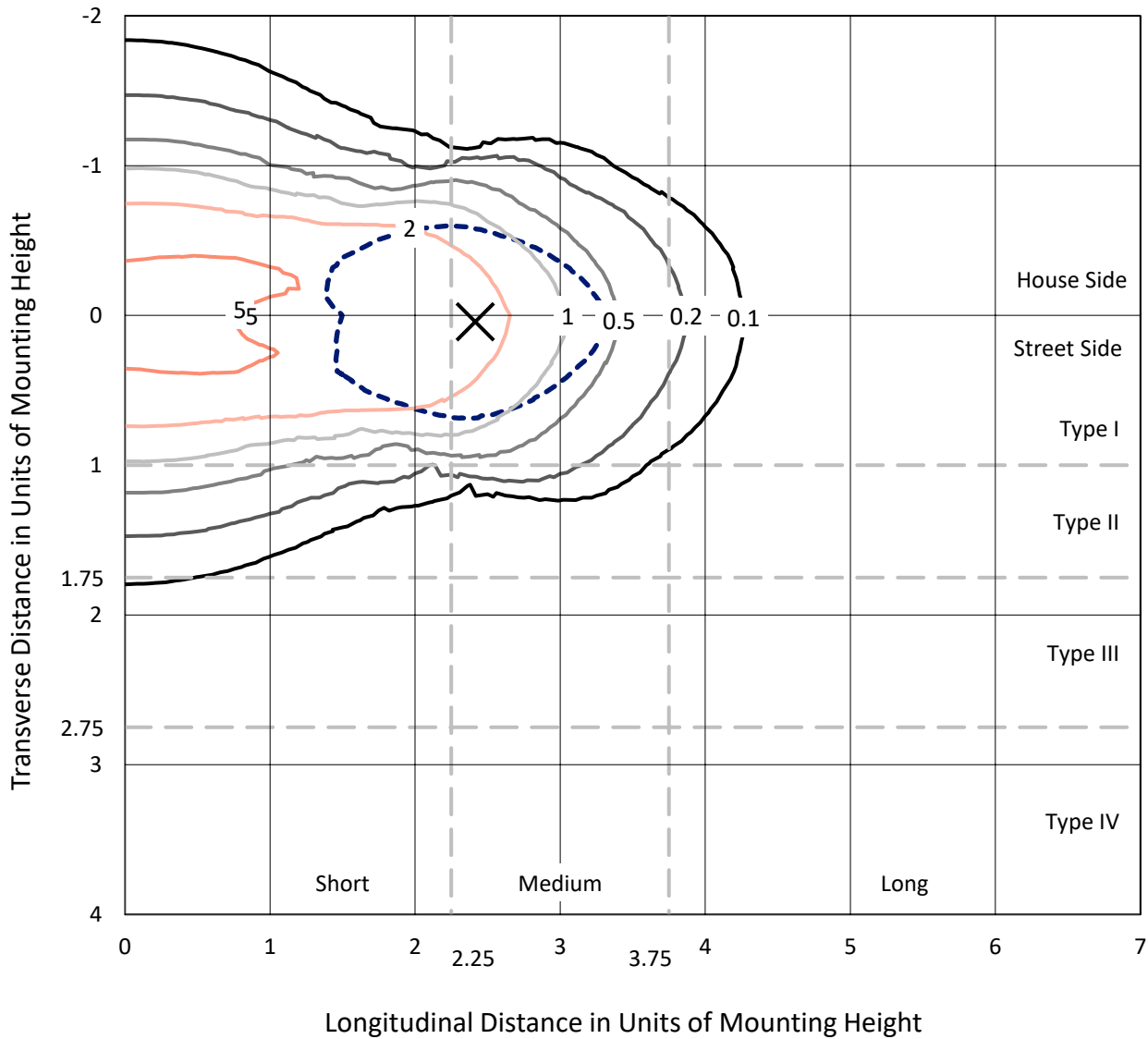
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

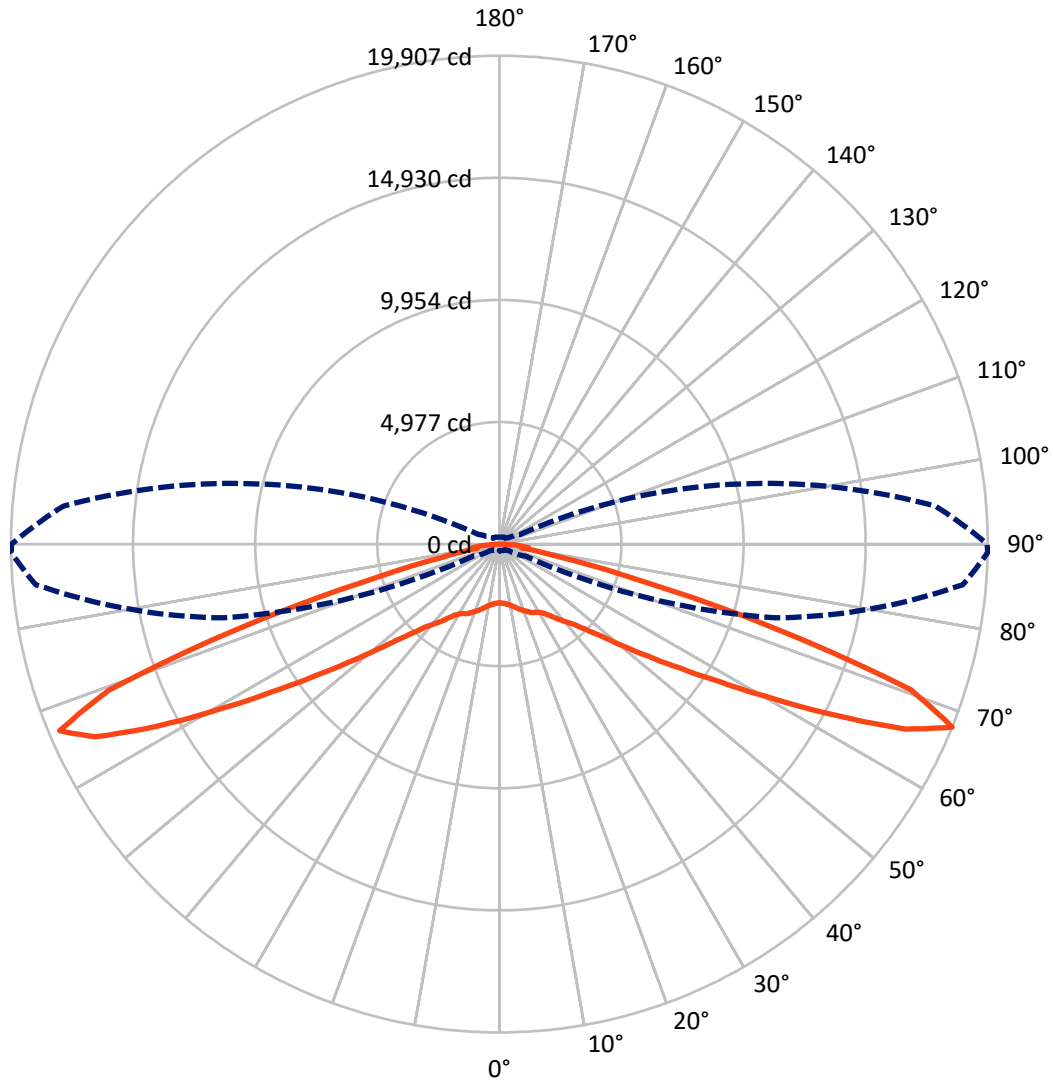
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 89-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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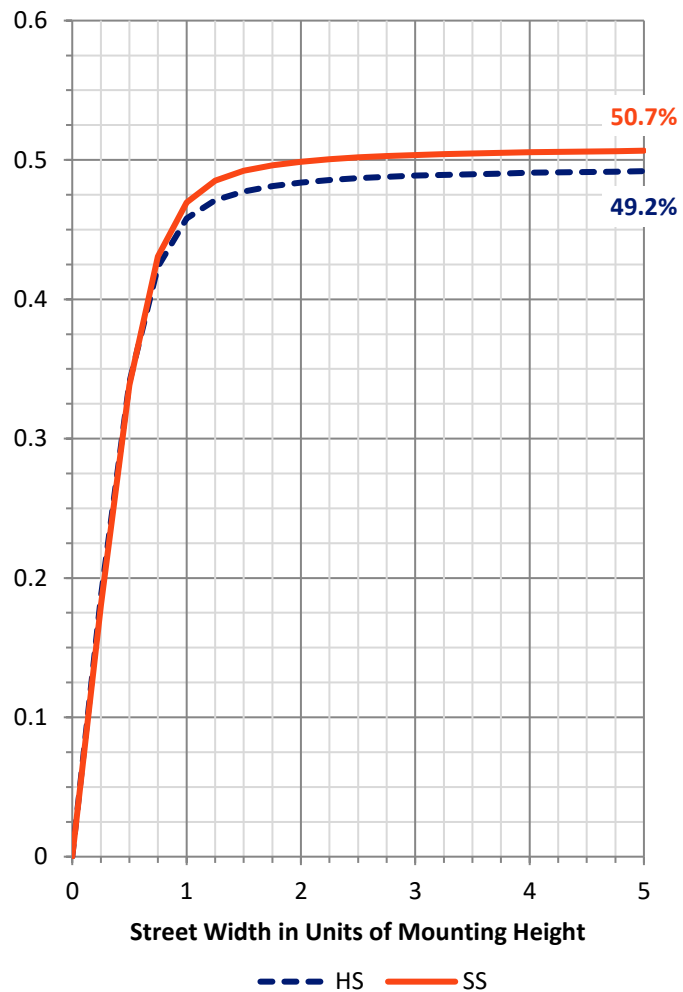
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7073.7	0.0	7073.7
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	7198.8	0.0	7198.8
	% Fixture	50.4	0.0	50.4
Total	Lumens	14272.4	0.0	14272.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.3	1.7
10°-20°	782.4	5.5
20°-30°	1322.6	9.3
30°-40°	1815.1	12.7
40°-50°	2314.7	16.2
50°-60°	2904.2	20.3
60°-70°	3502.7	24.5
70°-80°	1267.2	8.9
80°-90°	123.2	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°	14272.4	100.0
0°-180°	14272.4	100.0

Coefficient of Utilization



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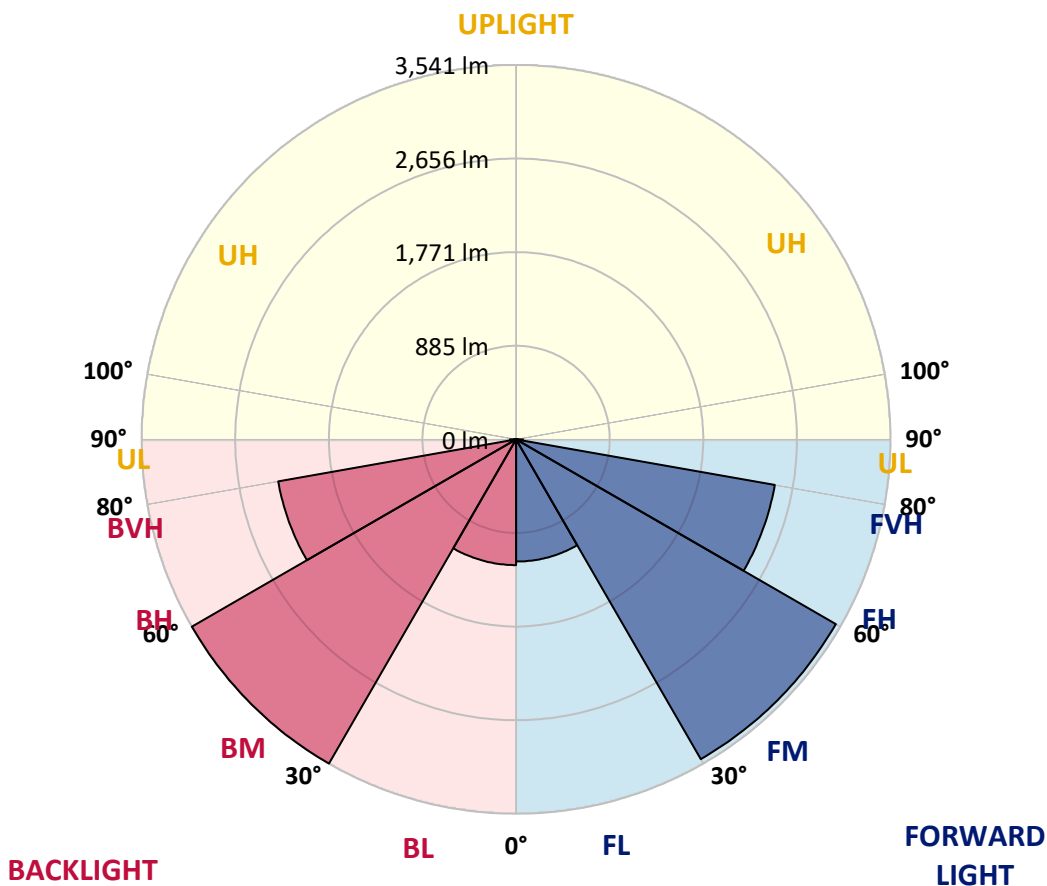
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1156.0	8.1			
FM (30°-60°)	3492.7	24.5			
FH (60°-80°)	2485.0	17.4			G2/5000
FVH (80°-90°)	65.0	0.5			G1/100
BL (0°-30°)	1189.4	8.3	B3/2500		
BM (30°-60°)	3541.3	24.8	B3/5000		
BH (60°-80°)	2284.8	16.0	B3/2500		G3/2500
BVH (80°-90°)	58.2	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type I Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	89°
0°	2395.5	2395.5	2395.5	2395.5	2395.5	2395.5	2395.5	2395.5	2395.5	2395.5	2395.5
2.5°	2402.7	2400.6	2395.5	2410.9	2407.8	2408.8	2415.0	2410.9	2403.7	2391.4	2408.8
5°	2470.3	2469.3	2458.0	2467.3	2457.0	2449.8	2448.8	2438.6	2430.4	2417.0	2435.5
7.5°	2535.9	2534.9	2525.7	2542.1	2533.9	2525.7	2516.5	2496.0	2476.5	2457.0	2477.5
10°	2586.2	2585.1	2583.1	2606.7	2608.7	2611.8	2607.7	2572.8	2539.0	2515.4	2535.9
12.5°	2614.9	2617.9	2623.1	2666.1	2687.6	2708.1	2713.3	2684.6	2628.2	2594.4	2619.0
15°	2595.4	2601.5	2627.2	2705.1	2764.5	2810.6	2830.1	2806.5	2733.8	2677.4	2705.1
17.5°	2502.1	2507.2	2557.5	2676.4	2807.6	2914.2	2946.0	2931.6	2850.6	2781.9	2808.6
20°	2373.0	2384.2	2438.6	2604.6	2800.4	2985.9	3071.0	3065.9	2977.7	2872.1	2903.9
22.5°	2256.1	2269.4	2326.8	2510.3	2752.2	3004.4	3197.1	3210.4	3093.6	2962.4	2988.0
25°	2124.9	2137.2	2211.0	2398.6	2669.2	2990.0	3304.7	3365.2	3224.8	3065.9	3089.5
27.5°	1990.6	1999.8	2072.6	2272.5	2560.5	2963.4	3389.8	3535.3	3353.9	3137.6	3154.0
30°	1872.7	1885.0	1951.7	2146.4	2441.6	2910.1	3459.5	3716.8	3502.5	3218.6	3231.9
32.5°	1759.0	1769.2	1842.0	2022.4	2315.6	2828.1	3522.0	3930.0	3722.9	3369.3	3369.3
35°	1615.5	1633.9	1715.9	1903.5	2196.7	2719.4	3567.1	4178.0	4024.3	3591.7	3592.7
37.5°	1483.2	1493.5	1579.6	1769.2	2071.6	2596.4	3571.2	4435.3	4405.6	3874.6	3876.7
40°	1332.5	1345.9	1438.1	1625.7	1928.1	2467.3	3532.3	4675.2	4805.4	4165.7	4154.5
42.5°	1179.8	1199.3	1287.4	1470.9	1773.3	2309.4	3428.7	4903.8	5312.8	4503.0	4475.3
45°	1032.2	1044.5	1132.7	1305.9	1596.0	2120.8	3262.7	5123.1	5915.5	5015.5	4975.5
47.5°	866.2	871.3	962.5	1128.6	1412.5	1910.7	3024.9	5318.9	6577.7	5694.1	5625.4
50°	718.5	725.7	797.5	940.0	1188.0	1661.6	2728.6	5433.7	7421.3	6619.7	6500.8
52.5°	581.2	588.4	645.8	759.6	982.0	1377.6	2361.7	5407.1	8277.2	7768.7	7595.5
55°	469.5	474.6	513.5	602.7	772.9	1095.8	1928.1	5168.2	9227.4	9269.4	8896.3
57.5°	396.7	398.7	425.4	479.7	603.7	844.6	1488.4	4604.5	10223.7	11184.2	10571.2
60°	354.7	355.7	368.0	401.8	476.6	644.7	1090.6	3706.5	11255.9	13579.7	12739.1
62.5°	328.0	328.0	338.3	357.7	395.7	496.1	801.6	2662.0	11997.0	16186.3	15350.9
65°	302.4	302.4	309.6	326.0	346.5	404.9	601.7	1716.9	12360.9	18365.6	18180.0
67.5°	269.6	270.6	275.7	293.2	311.6	338.3	456.1	1161.4	11605.4	18968.3	19907.2
70°	238.8	239.9	247.0	258.3	273.7	292.1	356.7	800.6	8447.3	15797.8	17799.7
72.5°	205.0	209.1	214.2	226.5	235.8	249.1	291.1	518.7	4915.0	10162.2	11766.4
75°	168.1	173.2	179.4	191.7	197.8	203.0	239.9	370.0	2364.8	5149.8	5864.2
77.5°	130.2	135.3	142.5	153.8	157.9	164.0	183.5	267.5	1132.7	2282.8	2461.1
80°	87.1	89.2	95.3	108.7	115.8	119.9	135.3	182.5	492.0	916.4	908.2
82.5°	53.3	54.3	56.4	64.6	67.7	71.8	88.2	111.7	234.7	1041.4	1194.2
85°	19.5	18.5	17.4	22.6	26.7	30.8	41.0	56.4	102.5	715.5	800.6
87.5°	0.0	0.0	0.0	1.0	2.1	2.1	4.1	8.2	24.6	267.5	183.5
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°	2395.5	2395.5	2395.5	2395.5	2395.5	2395.5	2395.5	2395.5	2395.5	2395.5	2395.5
2.5°	2403.7	2392.4	2406.8	2417.0	2439.6	2447.8	2449.8	2442.7	2442.7	2430.4	2432.4
5°	2431.4	2424.2	2447.8	2465.2	2498.0	2510.3	2518.5	2513.4	2516.5	2508.3	2510.3
7.5°	2473.4	2467.3	2508.3	2542.1	2575.9	2590.3	2597.4	2593.3	2594.4	2584.1	2587.2
10°	2531.8	2533.9	2583.1	2627.2	2672.3	2686.6	2689.7	2677.4	2667.1	2648.7	2649.7
12.5°	2611.8	2622.0	2691.7	2740.9	2787.1	2807.6	2785.0	2739.9	2697.9	2666.1	2662.0
15°	2698.9	2717.4	2817.8	2880.3	2930.6	2920.3	2853.7	2752.2	2669.2	2622.0	2612.8
17.5°	2803.5	2831.1	2957.2	3032.1	3075.1	3009.5	2870.1	2718.4	2602.6	2539.0	2526.7
20°	2901.9	2946.0	3104.8	3202.2	3207.3	3059.7	2862.9	2649.7	2504.2	2426.3	2409.9
22.5°	2992.1	3048.5	3259.6	3383.6	3317.0	3082.3	2818.8	2552.3	2385.3	2294.0	2279.7
25°	3090.5	3170.4	3440.0	3555.8	3426.7	3073.1	2726.6	2431.4	2241.8	2148.5	2138.2
27.5°	3158.1	3258.6	3621.4	3732.2	3516.9	3020.8	2607.7	2299.2	2110.5	2022.4	2008.0
30°	3236.0	3364.2	3821.3	3923.8	3572.2	2943.9	2480.6	2176.1	1988.6	1893.2	1883.0
32.5°	3377.5	3538.4	4069.4	4126.8	3589.7	2848.6	2358.6	2057.2	1861.5	1766.1	1751.8
35°	3605.0	3793.7	4417.9	4353.3	3576.3	2744.0	2242.8	1917.8	1731.3	1642.1	1627.8
37.5°	3892.1	4126.8	4806.4	4557.3	3539.4	2629.2	2105.4	1801.0	1614.4	1524.2	1516.0
40°	4159.6	4448.7	5242.0	4733.6	3464.6	2487.8	1973.2	1679.0	1488.4	1393.0	1374.6
42.5°	4494.8	4879.2	5746.3	4886.3	3341.6	2318.6	1824.6	1528.3	1330.5	1244.4	1221.8
45°	5004.2	5481.9	6332.7	5032.9	3158.1	2110.5	1638.0	1344.8	1157.3	1069.1	1051.7
47.5°	5639.7	6235.3	6968.2	5120.1	2879.3	1891.2	1426.8	1151.1	963.5	864.1	855.9
50°	6532.5	7331.1	7649.8	5104.7	2567.7	1630.8	1189.0	920.5	763.7	691.9	680.6
52.5°	7620.1	8706.6	8386.8	4920.2	2236.6	1334.6	926.6	722.6	605.8	554.5	545.3
55°	8984.4	10353.9	9162.8	4524.5	1818.4	1022.0	727.8	569.9	490.0	459.2	455.1
57.5°	10673.7	12487.0	9910.0	3858.2	1367.4	780.1	560.7	470.5	432.6	414.1	413.1
60°	12903.1	14751.3	10558.9	2998.2	978.9	596.6	463.3	420.3	390.5	378.2	377.2
62.5°	15553.9	16807.5	10962.8	2041.9	736.0	475.6	408.0	381.3	363.9	356.7	355.7
65°	18278.4	18107.2	10770.0	1337.7	558.6	403.9	365.9	351.6	336.2	329.0	329.0
67.5°	19887.7	17832.5	9290.9	928.7	442.8	354.7	330.1	316.7	291.1	285.0	285.0
70°	17615.2	14449.9	6089.7	679.6	358.8	310.6	287.0	268.6	258.3	252.2	251.1
72.5°	11650.6	9402.6	3238.1	471.5	299.3	264.5	242.9	235.8	223.5	217.3	216.3
75°	5798.6	4938.6	1659.5	340.3	249.1	212.2	203.0	199.9	189.6	181.4	179.4
77.5°	2417.0	2198.7	773.9	247.0	189.6	171.2	163.0	163.0	151.7	142.5	138.4
80°	911.3	811.8	365.9	169.1	140.4	127.1	122.0	117.9	108.7	97.4	91.2
82.5°	1218.8	796.5	179.4	105.6	92.3	82.0	74.8	71.8	66.6	61.5	57.4
85°	789.3	565.8	81.0	54.3	46.1	34.9	30.8	28.7	25.6	22.6	20.5
87.5°	160.9	189.6	24.6	10.3	6.2	3.1	3.1	1.0	0.0	0.0	0.0
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)