

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: P633247

Luminaire Tested: GWS-SA2E-735-U-SL2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633247
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-27)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2E-735-U-SL2-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14141.9 lumens
Efficiency: N/A
Efficacy: 130.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

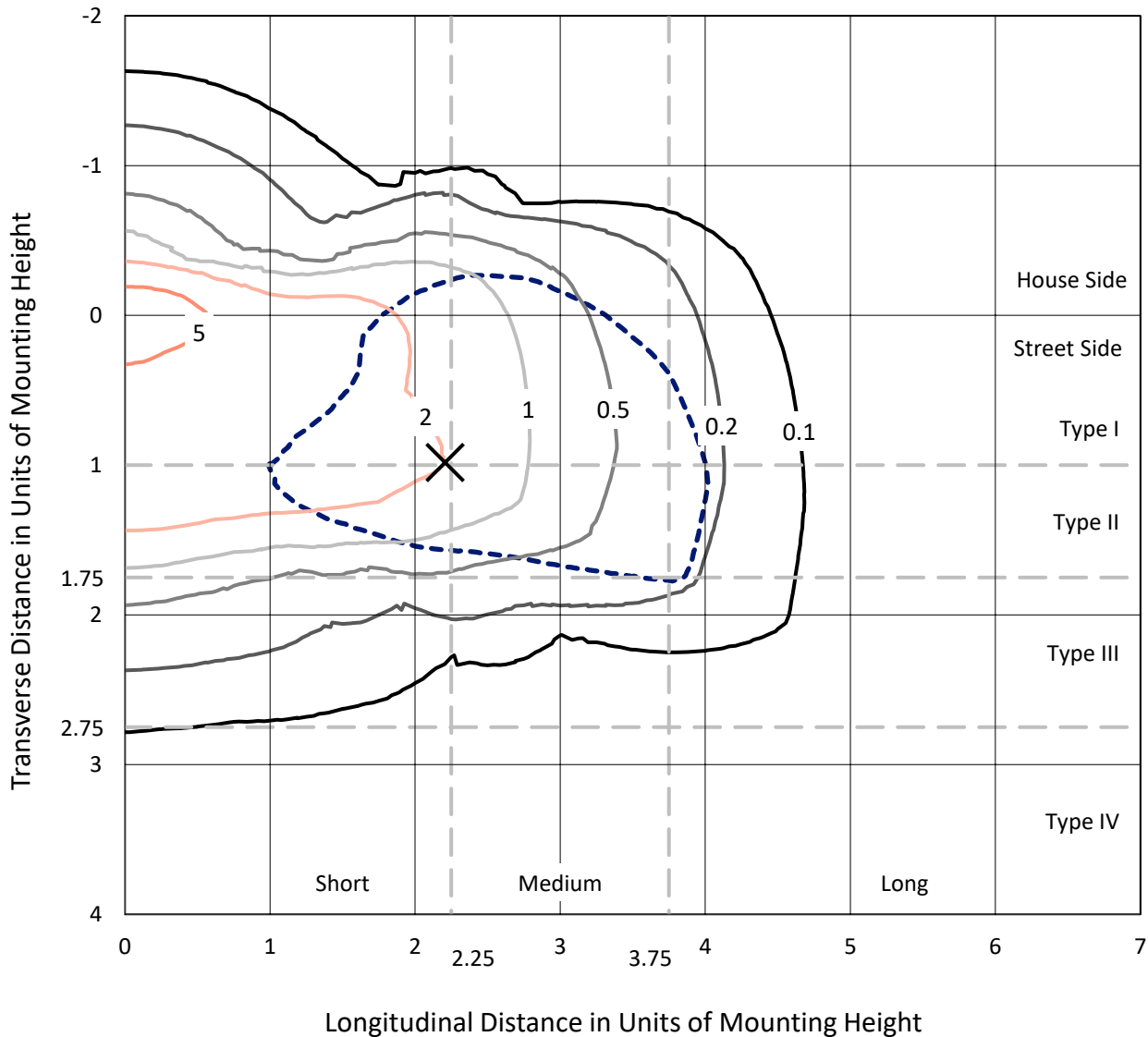
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

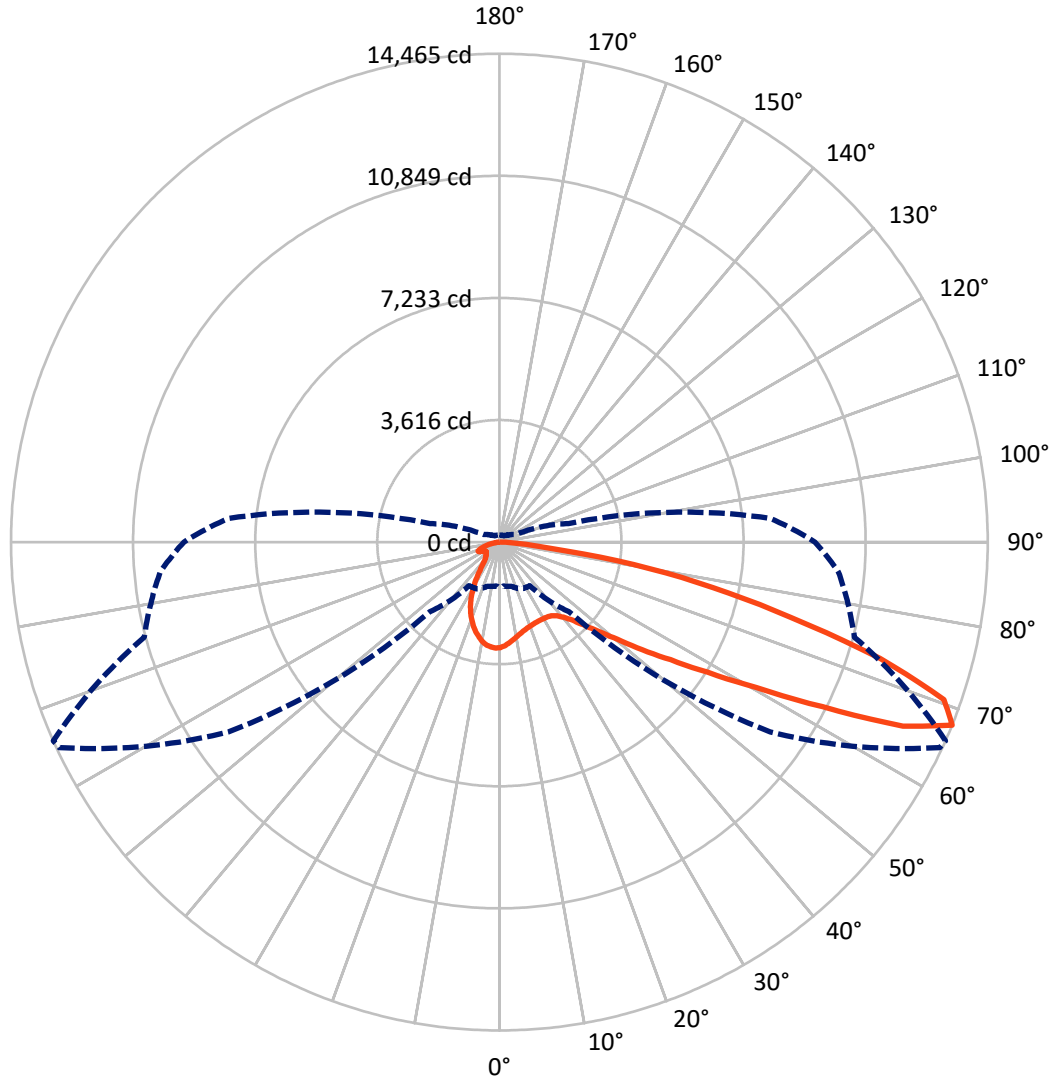
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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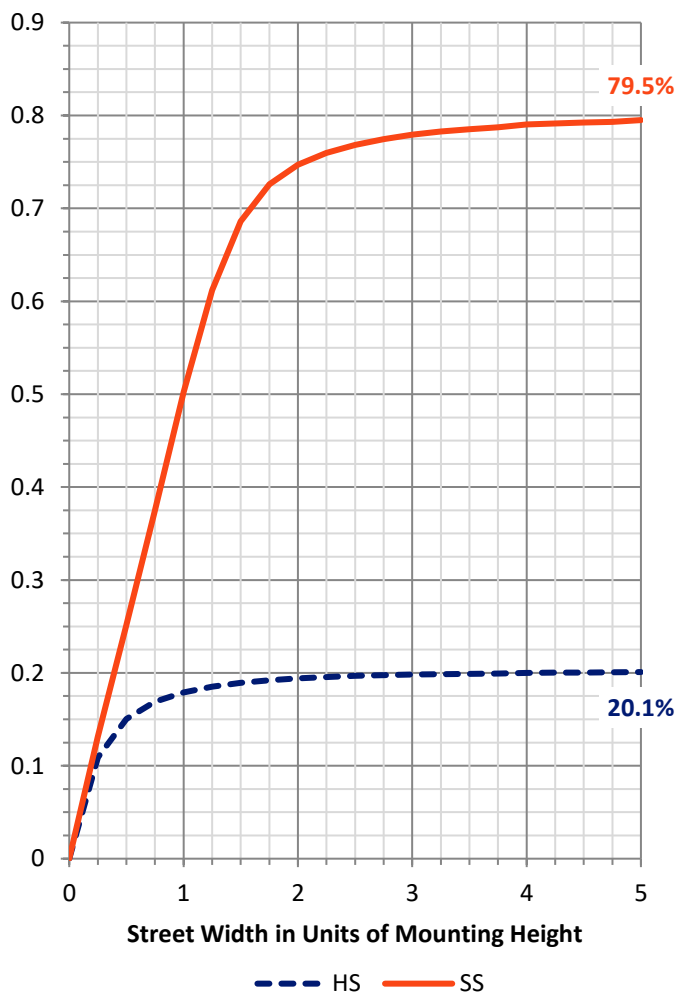
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2869.7	0.0	2869.7
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	11272.2	0.0	11272.2
	% Fixture	79.7	0.0	79.7
Total	Lumens	14141.9	0.0	14141.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.3	1.9
10°-20°	674.0	4.8
20°-30°	926.5	6.6
30°-40°	1266.6	9.0
40°-50°	1919.2	13.6
50°-60°	2983.5	21.1
60°-70°	3632.4	25.7
70°-80°	2212.7	15.6
80°-90°	252.7	1.8
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°	14141.9	100.0
0°-180°	14141.9	100.0

Coefficient of Utilization



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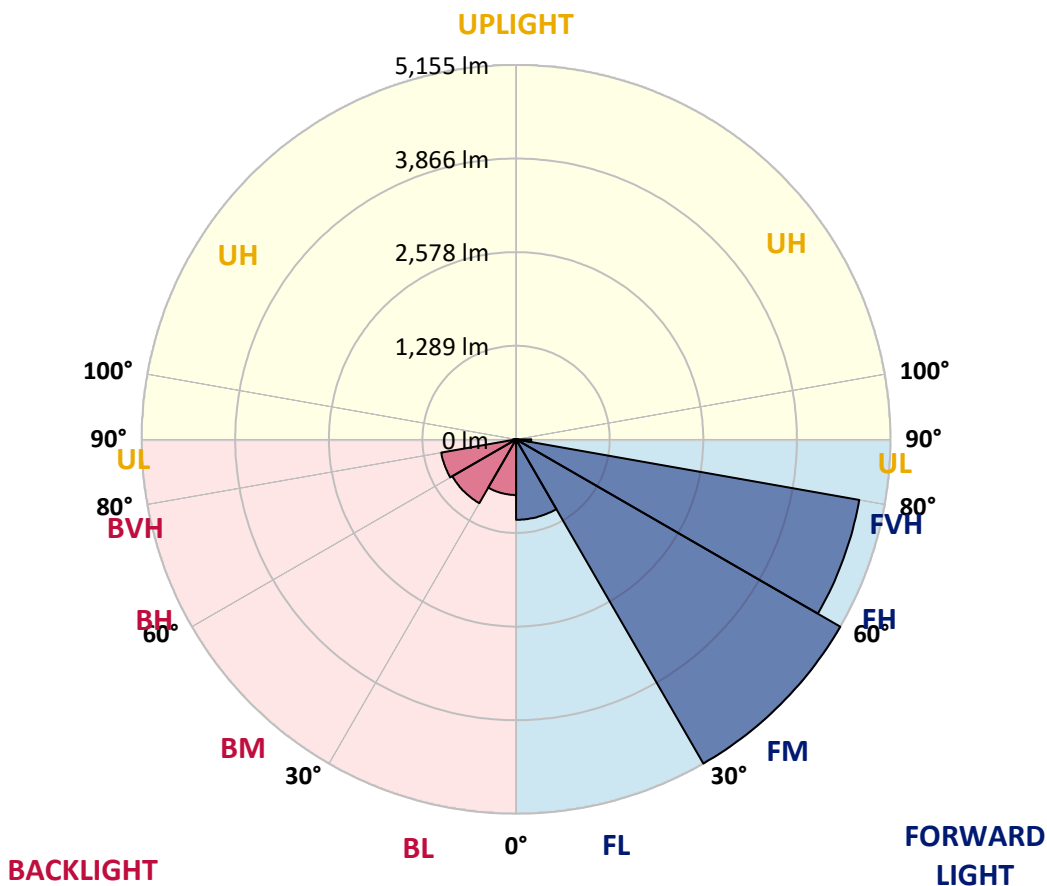
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1108.1	7.8			
FM (30°-60°)	5155.3	36.5			
FH (60°-80°)	4798.7	33.9			G2/5000
FVH (80°-90°)	210.1	1.5			G2/225
BL (0°-30°)	766.6	5.4	B2/1000		
BM (30°-60°)	1014.1	7.2	B2/2500		
BH (60°-80°)	1046.3	7.4	B3/2500		G3/2500
BVH (80°-90°)	42.6	0.3			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3125.0	3125.0	3125.0	3125.0	3125.0	3125.0	3125.0	3125.0	3125.0	3125.0	3125.0
2.5°	2926.9	2937.2	2931.0	2970.2	2972.3	3021.8	3049.6	3073.4	3075.4	3106.4	3127.0
5°	2726.7	2732.9	2732.9	2770.1	2794.8	2860.8	2924.8	2992.9	2998.1	3072.3	3129.1
7.5°	2564.8	2570.9	2566.8	2616.3	2648.3	2721.6	2803.1	2907.3	2917.6	3037.3	3136.3
10°	2437.9	2435.8	2446.1	2491.5	2532.8	2620.5	2711.3	2829.9	2845.4	2997.0	3144.6
12.5°	2351.2	2353.3	2359.5	2406.9	2451.3	2537.9	2631.8	2760.8	2777.3	2950.6	3140.4
15°	2309.9	2305.8	2311.0	2354.3	2396.6	2472.9	2569.9	2703.0	2719.5	2909.3	3141.5
17.5°	2300.6	2297.6	2296.5	2327.5	2359.5	2430.6	2523.5	2658.6	2676.2	2882.5	3147.7
20°	2329.5	2325.4	2314.1	2327.5	2340.9	2400.7	2490.5	2626.7	2646.3	2865.0	3160.0
22.5°	2409.0	2401.8	2384.2	2367.7	2350.2	2386.3	2469.8	2602.9	2622.5	2853.6	3172.4
25°	2529.7	2523.5	2504.9	2467.8	2403.8	2397.6	2465.7	2592.6	2612.2	2845.4	3177.6
27.5°	2695.8	2686.5	2667.9	2614.3	2510.1	2439.9	2481.2	2591.6	2610.2	2836.1	3172.4
30°	2892.8	2886.6	2876.3	2811.3	2672.1	2529.7	2516.3	2599.8	2614.3	2830.9	3162.1
32.5°	3093.0	3086.8	3095.0	3064.1	2892.8	2678.2	2592.6	2622.5	2632.8	2829.9	3152.8
35°	3269.4	3276.6	3336.5	3341.6	3173.4	2879.4	2713.3	2675.1	2677.2	2850.5	3156.9
37.5°	3454.1	3481.9	3560.3	3627.4	3487.1	3145.6	2892.8	2774.2	2772.1	2903.1	3182.7
40°	3698.6	3711.0	3811.0	3936.9	3849.2	3510.8	3147.7	2936.2	2921.7	3010.4	3251.9
42.5°	3936.9	3966.8	4126.7	4271.2	4242.3	3922.4	3468.5	3178.6	3152.8	3200.3	3394.2
45°	4240.2	4269.1	4448.6	4634.3	4686.9	4387.7	3879.1	3523.2	3497.4	3486.0	3655.2
47.5°	4543.5	4573.4	4734.4	5002.6	5187.3	4969.6	4413.5	3978.2	3935.9	3891.5	4049.3
50°	4747.8	4782.9	4936.6	5258.5	5691.8	5695.9	5047.0	4574.5	4520.8	4450.7	4604.4
52.5°	4740.6	4763.3	4909.8	5281.2	6054.9	6530.5	5895.0	5333.8	5290.5	5137.8	5271.9
55°	4368.1	4402.2	4549.7	5014.0	6094.1	7321.8	7141.3	6229.3	6151.9	5878.5	6026.0
57.5°	3620.2	3649.1	3797.6	4370.2	5746.5	7727.3	8723.9	7370.3	7264.1	6685.3	6855.5
60°	2732.9	2697.8	2768.0	3269.4	4914.9	7737.6	10120.8	8917.8	8740.4	7547.8	7690.1
62.5°	2051.0	2015.9	2031.4	2172.7	3332.3	7112.4	10917.2	11034.8	10741.9	8521.7	8493.8
65°	1620.8	1601.2	1645.5	1742.5	1942.7	5416.3	10923.4	13324.1	13139.5	9650.3	9318.1
67.5°	1320.6	1308.2	1353.6	1533.1	1575.4	2910.4	9794.8	14393.0	14465.2	10886.3	10082.6
70°	1063.7	1045.1	1116.3	1352.5	1465.0	1761.1	7016.5	13848.2	13964.8	11622.9	9867.0
72.5°	734.6	735.6	771.7	1095.6	1414.4	1520.7	3968.9	11531.1	11783.8	10955.4	8674.4
75°	495.2	499.3	509.6	723.2	1303.0	1475.3	2114.9	8730.1	8908.6	9055.1	7170.2
77.5°	299.2	301.3	325.0	437.4	898.6	1377.3	1433.0	6328.3	6468.6	5969.3	4444.5
80°	173.3	180.5	202.2	293.0	606.6	1034.8	1109.1	3880.1	4039.0	2653.5	1412.4
82.5°	76.3	81.5	110.4	170.2	353.9	880.0	865.6	1533.1	1510.4	739.7	490.0
85°	13.4	16.5	23.7	53.6	130.0	464.3	671.6	676.8	636.5	280.6	203.2
87.5°	0.0	0.0	0.0	0.0	0.0	3.1	101.1	181.6	180.5	79.4	70.2
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°	3125.0	3125.0	3125.0	3125.0	3125.0	3125.0	3125.0	3125.0	3125.0	3125.0	3125.0
2.5°	3140.4	3112.6	3137.3	3140.4	3135.3	3131.1	3100.2	3073.4	3070.3	3041.4	3041.4
5°	3151.8	3126.0	3138.4	3114.6	3077.5	3039.3	2973.3	2927.9	2907.3	2870.1	2870.1
7.5°	3167.3	3140.4	3126.0	3067.2	2980.5	2897.0	2790.7	2702.0	2665.9	2613.2	2611.2
10°	3181.7	3147.7	3098.1	2983.6	2845.4	2712.3	2557.5	2431.7	2346.0	2283.1	2283.1
12.5°	3180.7	3136.3	3038.3	2869.1	2678.2	2485.3	2279.0	2089.2	1975.7	1877.7	1871.5
15°	3178.6	3117.7	2962.0	2736.0	2483.3	2216.0	1935.4	1687.8	1519.7	1423.7	1415.5
17.5°	3176.5	3094.0	2876.3	2584.4	2246.0	1881.8	1511.4	1243.2	1102.9	1044.1	1046.1
20°	3176.5	3067.2	2784.5	2410.0	1972.6	1481.5	1109.1	914.1	879.0	882.1	885.2
22.5°	3167.3	3034.2	2682.4	2220.2	1668.2	1089.5	818.1	752.1	770.7	799.6	803.7
25°	3145.6	2979.5	2563.7	2009.7	1306.1	793.4	667.5	655.1	689.2	725.3	735.6
27.5°	3111.5	2916.6	2430.6	1763.1	961.5	637.6	587.0	586.0	612.8	639.6	648.9
30°	3075.4	2846.4	2290.3	1488.7	696.4	555.0	535.4	535.4	548.9	565.4	563.3
32.5°	3033.1	2775.2	2139.7	1202.9	567.4	508.6	502.4	499.3	501.4	507.6	507.6
35°	2997.0	2712.3	1985.0	900.7	508.6	482.8	476.6	469.4	466.3	462.2	464.3
37.5°	2983.6	2662.8	1825.0	678.8	479.7	464.3	453.9	443.6	436.4	434.3	433.3
40°	3005.3	2642.1	1665.1	559.2	459.1	444.7	433.3	419.9	413.7	413.7	413.7
42.5°	3089.9	2657.6	1502.1	505.5	444.7	428.1	411.6	399.3	397.2	399.3	400.3
45°	3244.6	2717.4	1332.9	478.7	432.3	411.6	392.0	382.8	382.8	384.8	384.8
47.5°	3521.1	2874.3	1165.8	462.2	419.9	398.2	377.6	368.3	367.3	369.3	369.3
50°	3999.8	3156.9	1015.2	450.8	410.6	387.9	367.3	354.9	351.8	350.8	350.8
52.5°	4603.4	3647.0	919.2	442.6	399.3	376.6	355.9	339.4	333.2	330.1	330.1
55°	5332.8	4300.0	919.2	436.4	384.8	363.2	339.4	322.9	313.6	309.5	309.5
57.5°	6159.1	5060.4	1078.1	431.2	373.5	347.7	321.9	305.4	295.1	288.9	288.9
60°	6999.9	5864.1	1471.2	424.0	363.2	328.1	302.3	286.8	273.4	266.2	265.1
62.5°	7871.7	6749.2	1989.1	428.1	355.9	309.5	281.6	264.1	252.8	245.5	244.5
65°	8670.2	7592.1	2442.0	460.1	357.0	293.0	257.9	242.4	233.2	223.9	222.8
67.5°	9348.1	8057.4	2124.2	525.1	378.6	273.4	234.2	218.7	210.5	204.3	203.2
70°	8873.5	7347.6	1205.0	565.4	408.5	252.8	207.4	197.1	188.8	184.7	183.6
72.5°	7588.0	6221.0	805.7	499.3	372.4	225.9	182.6	174.4	168.2	163.0	162.0
75°	6146.7	4933.5	615.9	409.6	289.9	183.6	156.8	150.6	144.4	139.3	138.2
77.5°	3636.7	2850.5	453.9	323.9	204.3	143.4	130.0	124.8	118.6	114.5	113.5
80°	1160.6	990.4	287.8	222.8	135.2	110.4	100.1	95.9	89.8	84.6	83.6
82.5°	442.6	382.8	152.7	113.5	89.8	75.3	67.1	62.9	58.8	53.6	52.6
85°	196.0	183.6	84.6	60.9	48.5	37.1	33.0	31.0	25.8	21.7	20.6
87.5°	69.1	69.1	36.1	17.5	10.3	5.2	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)