

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: P637481

Luminaire Tested: GWS-SA4C-830-U-SL2-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637481
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-SA4C-830-U-SL2-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12224 lumens
Efficiency: N/A
Efficacy: 95.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

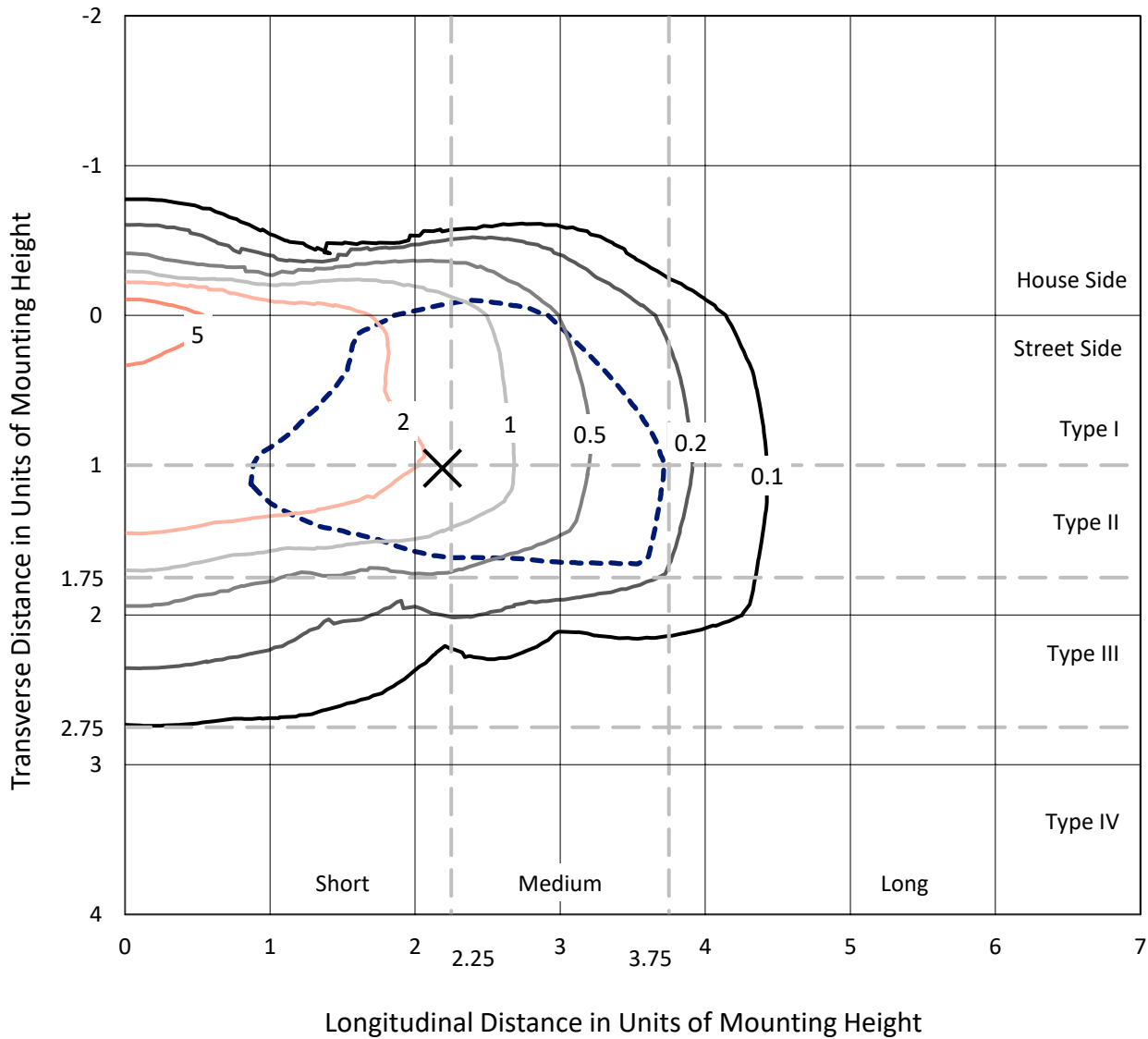
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P637481
 CATALOG NUMBER: GWS-SA4C-830-U-SL2-W-HSS

Iso-Footcandle Lines of Horizontal Illumination

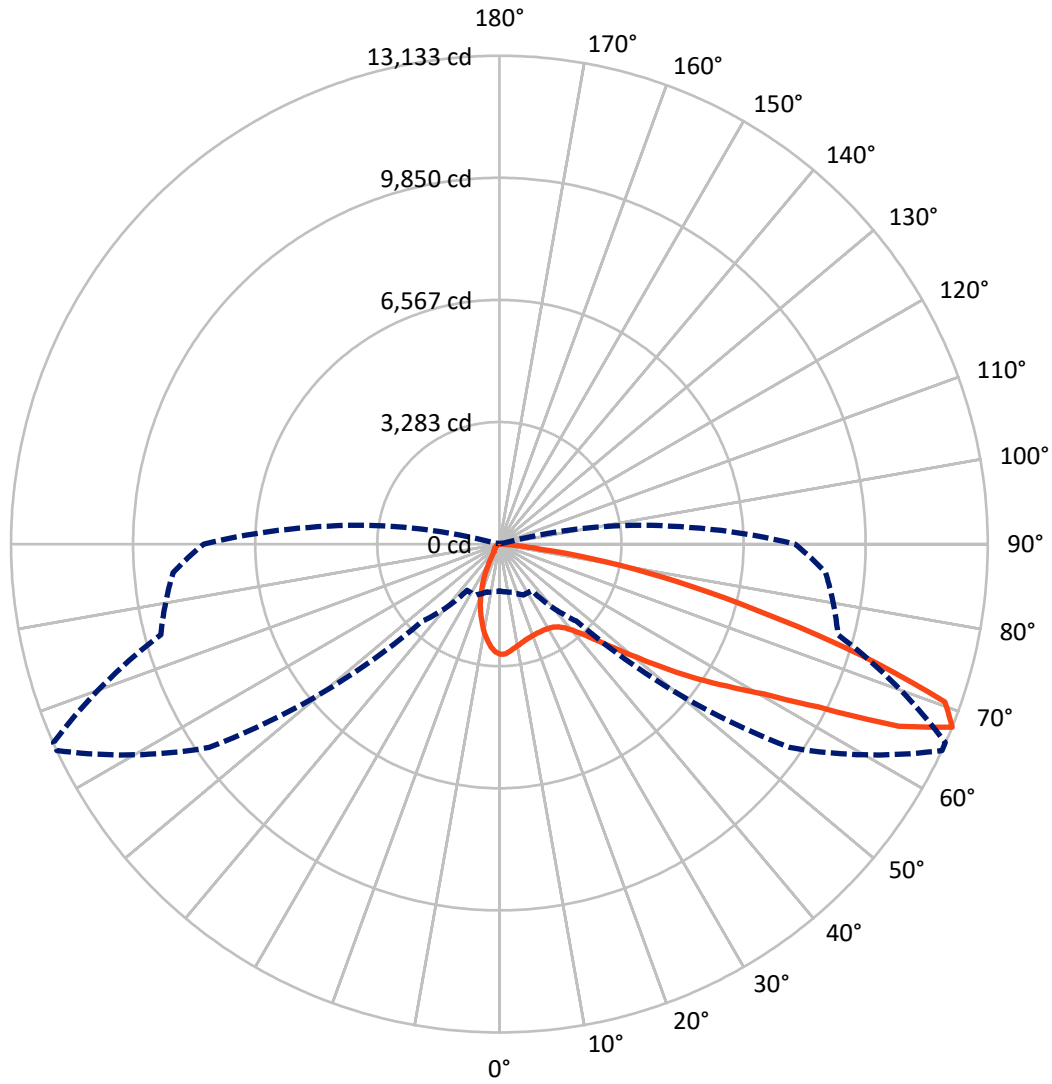
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.4 fc
 Type II - Short - N/A

REPORT NUMBER: P637481
CATALOG NUMBER: GWS-SA4C-830-U-SL2-W-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P637481

CATALOG NUMBER: GWS-SA4C-830-U-SL2-W-HSS

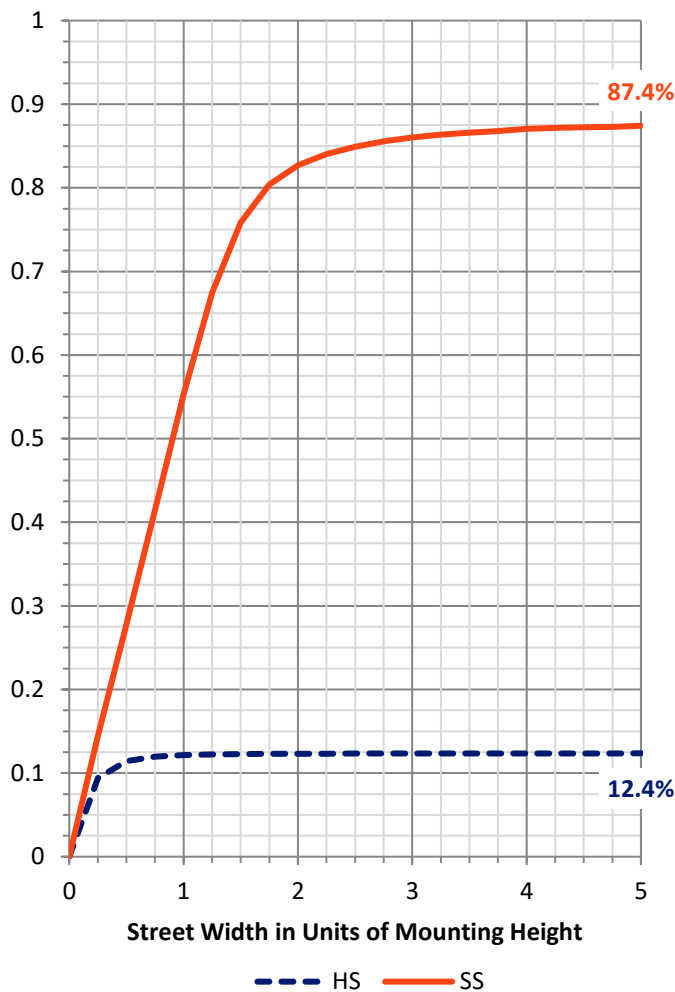
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1526.4	0.0	1526.4
	% Fixture	12.5	0.0	12.5
Street Side	Lumens	10697.6	0.0	10697.6
	% Fixture	87.5	0.0	87.5
Total	Lumens	12224.0	0.0	12224.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	246.2	2.0
10°-20°	553.5	4.5
20°-30°	791.0	6.5
30°-40°	1150.7	9.4
40°-50°	1802.2	14.7
50°-60°	2811.6	23.0
60°-70°	3088.3	25.3
70°-80°	1643.6	13.4
80°-90°	136.8	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°	12224.0	100.0
0°-180°	12224.0	100.0

Coefficient of Utilization



REPORT NUMBER: P637481

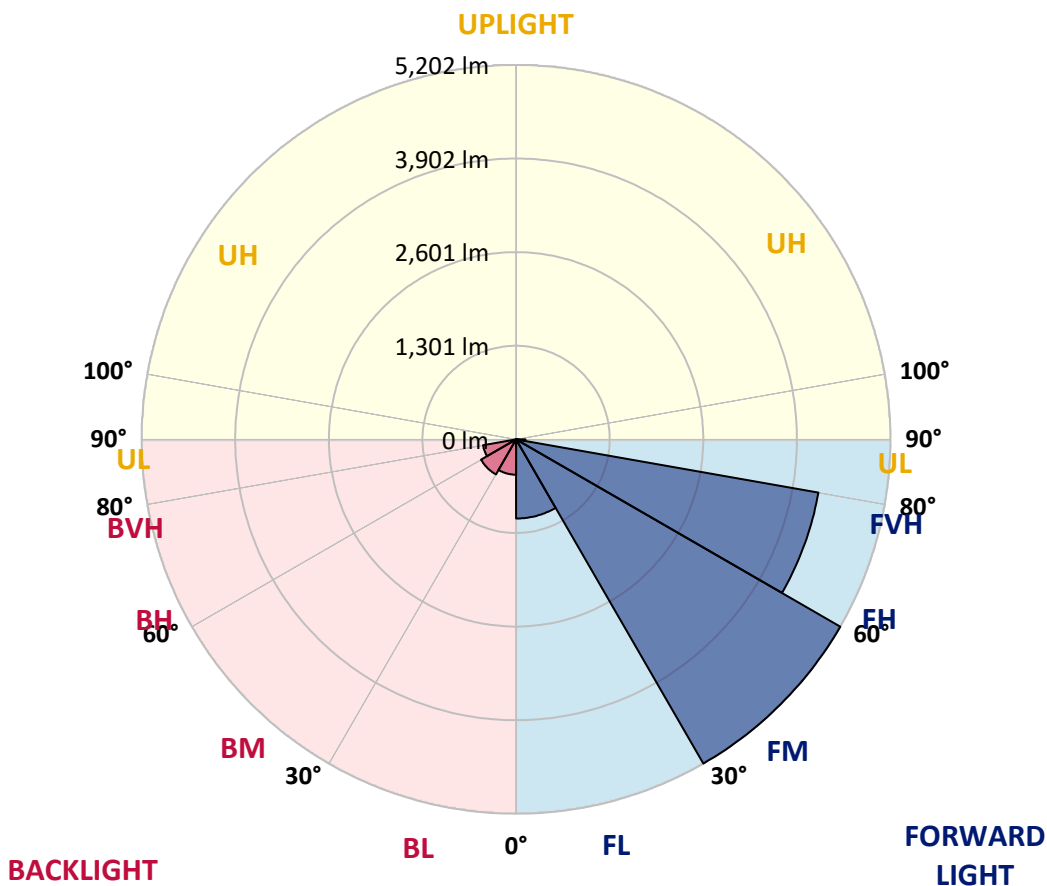
CATALOG NUMBER: GWS-SA4C-830-U-SL2-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1100.1	9.0			
FM (30°-60°)	5202.3	42.6			
FH (60°-80°)	4265.7	34.9			G2/5000
FVH (80°-90°)	129.5	1.1			G2/225
BL (0°-30°)	490.6	4.0	B1/500		
BM (30°-60°)	562.2	4.6	B1/1000		
BH (60°-80°)	466.2	3.8	B1/500		G1/500
BVH (80°-90°)	7.3	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





REPORT NUMBER: P637481

CATALOG NUMBER: GWS-SA4C-830-U-SL2-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2964.7	2964.7	2964.7	2964.7	2964.7	2964.7	2964.7	2964.7	2964.7	2964.7	2964.7
2.5°	2861.9	2870.7	2858.6	2888.4	2894.0	2927.1	2945.9	2959.2	2958.1	2974.7	2974.7
5°	2693.9	2702.7	2696.1	2728.1	2753.6	2805.5	2848.6	2898.4	2900.6	2951.4	2970.2
7.5°	2551.3	2552.4	2552.4	2592.2	2625.3	2689.5	2753.6	2829.8	2838.7	2917.2	2966.9
10°	2434.1	2437.4	2438.5	2483.9	2520.3	2597.7	2679.5	2771.3	2781.2	2887.3	2964.7
12.5°	2353.4	2354.5	2358.9	2406.5	2446.3	2527.0	2609.9	2714.9	2728.1	2853.1	2954.8
15°	2314.7	2312.5	2314.7	2354.5	2394.3	2471.7	2556.8	2669.6	2683.9	2824.3	2955.9
17.5°	2312.5	2309.2	2307.0	2336.8	2362.3	2430.8	2517.0	2639.7	2655.2	2811.1	2968.0
20°	2344.6	2342.4	2331.3	2344.6	2350.1	2406.5	2491.6	2616.5	2632.0	2808.8	2994.6
22.5°	2428.6	2423.1	2406.5	2394.3	2364.5	2397.6	2473.9	2599.9	2617.6	2814.4	3028.8
25°	2553.5	2551.3	2530.3	2500.4	2424.2	2410.9	2475.0	2599.9	2616.5	2821.0	3065.3
27.5°	2741.4	2728.1	2701.6	2649.7	2540.2	2462.8	2497.1	2606.6	2623.1	2829.8	3095.1
30°	2932.6	2931.5	2922.7	2869.6	2707.1	2562.3	2543.5	2624.2	2639.7	2837.6	3122.8
32.5°	3130.5	3133.8	3155.9	3115.0	2937.1	2710.5	2627.6	2660.7	2671.8	2853.1	3147.1
35°	3318.4	3325.1	3383.7	3398.0	3216.7	2934.9	2764.6	2733.7	2734.8	2887.3	3179.2
37.5°	3498.6	3520.7	3614.7	3684.3	3564.9	3206.8	2962.5	2857.5	2848.6	2955.9	3227.8
40°	3703.1	3745.1	3863.4	3981.7	3944.1	3566.0	3232.2	3047.6	3028.8	3081.9	3315.1
42.5°	3929.7	3975.0	4132.0	4297.8	4315.5	4000.5	3569.4	3325.1	3293.0	3294.1	3478.7
45°	4172.9	4233.7	4416.1	4654.9	4762.1	4484.6	3985.0	3699.8	3667.7	3620.2	3741.8
47.5°	4492.4	4545.4	4721.2	4996.4	5202.1	5004.2	4530.0	4181.8	4123.2	4053.5	4150.8
50°	4767.6	4814.1	4965.5	5310.4	5738.2	5674.1	5147.9	4784.2	4727.8	4609.6	4690.2
52.5°	4828.4	4864.9	5004.2	5392.2	6148.3	6519.7	5905.1	5512.7	5472.9	5254.0	5285.0
55°	4555.4	4610.7	4735.6	5166.7	6255.5	7346.5	6887.8	6334.0	6251.1	5901.8	5957.0
57.5°	3865.6	3964.0	4081.2	4641.6	5964.8	7786.5	8260.7	7203.9	7128.8	6525.2	6526.3
60°	2833.2	2912.8	2991.2	3504.1	5275.0	7756.7	9506.5	8181.1	8044.1	7034.8	7016.0
62.5°	2060.5	2101.4	2100.3	2282.7	3622.4	7246.0	10160.9	9653.5	9334.1	7579.8	7472.6
65°	1620.5	1619.4	1667.0	1726.6	2022.9	5593.4	10241.6	11803.5	11458.7	8310.5	8087.2
67.5°	1261.3	1285.6	1333.1	1508.9	1519.9	2927.1	9531.9	13133.4	13126.7	9425.8	8806.8
70°	972.8	1005.9	1073.4	1329.8	1403.9	1638.2	7132.1	12712.2	12819.4	9924.4	8297.2
72.5°	624.6	622.3	721.8	1074.5	1348.6	1365.2	3944.1	10097.9	10219.5	8989.2	6708.7
75°	349.3	351.5	407.9	657.7	1256.8	1284.5	1953.3	7200.6	7296.8	7008.3	5154.5
77.5°	137.1	141.5	191.2	346.0	829.1	1147.4	1160.7	4910.2	4924.6	4343.1	3161.5
80°	55.3	58.6	97.3	214.4	505.2	772.7	829.1	2892.9	2834.3	1681.3	919.7
82.5°	16.6	17.7	38.7	121.6	264.2	549.4	559.3	1109.8	1047.9	361.5	234.3
85°	1.1	1.1	8.8	37.6	94.0	138.2	372.5	361.5	320.6	90.6	103.9
87.5°	0.0	0.0	1.1	1.1	2.2	4.4	39.8	66.3	67.4	16.6	46.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P637481
 CATALOG NUMBER: GWS-SA4C-830-U-SL2-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2964.7	2964.7	2964.7	2964.7	2964.7	2964.7	2964.7	2964.7	2964.7	2964.7	2964.7
2.5°	2974.7	2934.9	2931.5	2900.6	2869.6	2831.0	2785.6	2752.5	2729.3	2688.4	2680.6
5°	2970.2	2917.2	2867.4	2779.0	2680.6	2574.5	2481.6	2395.4	2341.3	2304.8	2289.3
7.5°	2961.4	2894.0	2779.0	2612.1	2447.4	2261.7	2116.9	1984.2	1893.6	1840.5	1817.3
10°	2954.8	2864.1	2677.3	2424.2	2168.8	1912.4	1692.4	1495.6	1386.2	1300.0	1285.6
12.5°	2941.5	2821.0	2546.9	2204.2	1874.8	1534.3	1253.5	1012.6	845.6	770.5	743.9
15°	2928.2	2775.7	2416.4	1972.0	1554.2	1134.1	793.7	561.5	446.6	411.2	409.0
17.5°	2926.0	2734.8	2274.9	1752.1	1218.2	742.8	452.1	363.7	339.4	330.5	330.5
20°	2932.6	2700.5	2135.6	1498.9	887.6	452.1	337.1	315.0	300.7	292.9	292.9
22.5°	2939.3	2665.1	2001.9	1243.6	589.2	330.5	297.4	278.6	262.0	253.1	248.7
25°	2943.7	2626.5	1853.8	987.1	384.7	287.4	260.9	236.6	216.7	205.6	205.6
27.5°	2942.6	2580.0	1704.5	736.2	298.5	255.3	223.3	197.9	178.0	165.8	166.9
30°	2933.8	2529.2	1549.8	514.0	260.9	223.3	191.2	164.7	144.8	134.9	133.8
32.5°	2927.1	2475.0	1370.7	361.5	234.3	195.7	162.5	137.1	120.5	112.8	111.6
35°	2919.4	2421.9	1200.5	275.2	211.1	169.1	137.1	116.1	102.8	96.2	96.2
37.5°	2921.6	2366.7	1015.9	236.6	187.9	147.0	117.2	99.5	88.4	81.8	80.7
40°	2955.9	2333.5	834.6	214.4	166.9	127.1	101.7	86.2	75.2	68.5	67.4
42.5°	3041.0	2334.6	661.0	197.9	148.1	108.3	88.4	74.1	64.1	56.4	55.3
45°	3211.2	2381.0	507.4	180.2	128.2	94.0	76.3	63.0	53.1	46.4	45.3
47.5°	3489.8	2519.2	384.7	164.7	111.6	81.8	65.2	53.1	44.2	38.7	37.6
50°	3933.0	2769.0	302.9	145.9	94.0	70.7	55.3	44.2	36.5	31.0	29.8
52.5°	4465.8	3143.8	259.8	129.3	80.7	61.9	47.5	36.5	29.8	25.4	24.3
55°	5078.2	3591.5	239.9	112.8	68.5	53.1	38.7	29.8	24.3	21.0	18.8
57.5°	5639.8	3994.9	238.8	96.2	58.6	45.3	32.1	25.4	21.0	16.6	15.5
60°	6187.0	4332.1	224.4	79.6	50.8	37.6	27.6	21.0	17.7	14.4	13.3
62.5°	6683.3	4606.2	187.9	64.1	43.1	31.0	23.2	18.8	15.5	12.2	12.2
65°	7306.7	4955.5	143.7	52.0	35.4	25.4	19.9	16.6	14.4	11.1	11.1
67.5°	7951.2	5140.1	102.8	43.1	28.7	22.1	17.7	15.5	12.2	9.9	9.9
70°	7201.7	4343.1	74.1	35.4	24.3	18.8	15.5	14.4	12.2	9.9	8.8
72.5°	5624.3	3131.6	55.3	27.6	21.0	17.7	14.4	13.3	11.1	8.8	8.8
75°	4170.7	1826.1	42.0	22.1	16.6	14.4	14.4	13.3	11.1	8.8	7.7
77.5°	2267.2	636.7	32.1	17.7	13.3	11.1	12.2	12.2	9.9	7.7	6.6
80°	600.2	174.7	22.1	13.3	11.1	8.8	8.8	11.1	8.8	6.6	6.6
82.5°	174.7	50.8	15.5	11.1	8.8	7.7	7.7	7.7	6.6	5.5	4.4
85°	85.1	18.8	11.1	8.8	7.7	6.6	5.5	5.5	4.4	3.3	3.3
87.5°	37.6	7.7	8.8	7.7	7.7	5.5	4.4	3.3	3.3	2.2	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)