

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: P637485

Luminaire Tested: GWS-SA4C-830-U-SL3-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637485
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-34)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4C-830-U-SL3-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III 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: 12489.3 lumens
Efficiency: N/A
Efficacy: 97.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

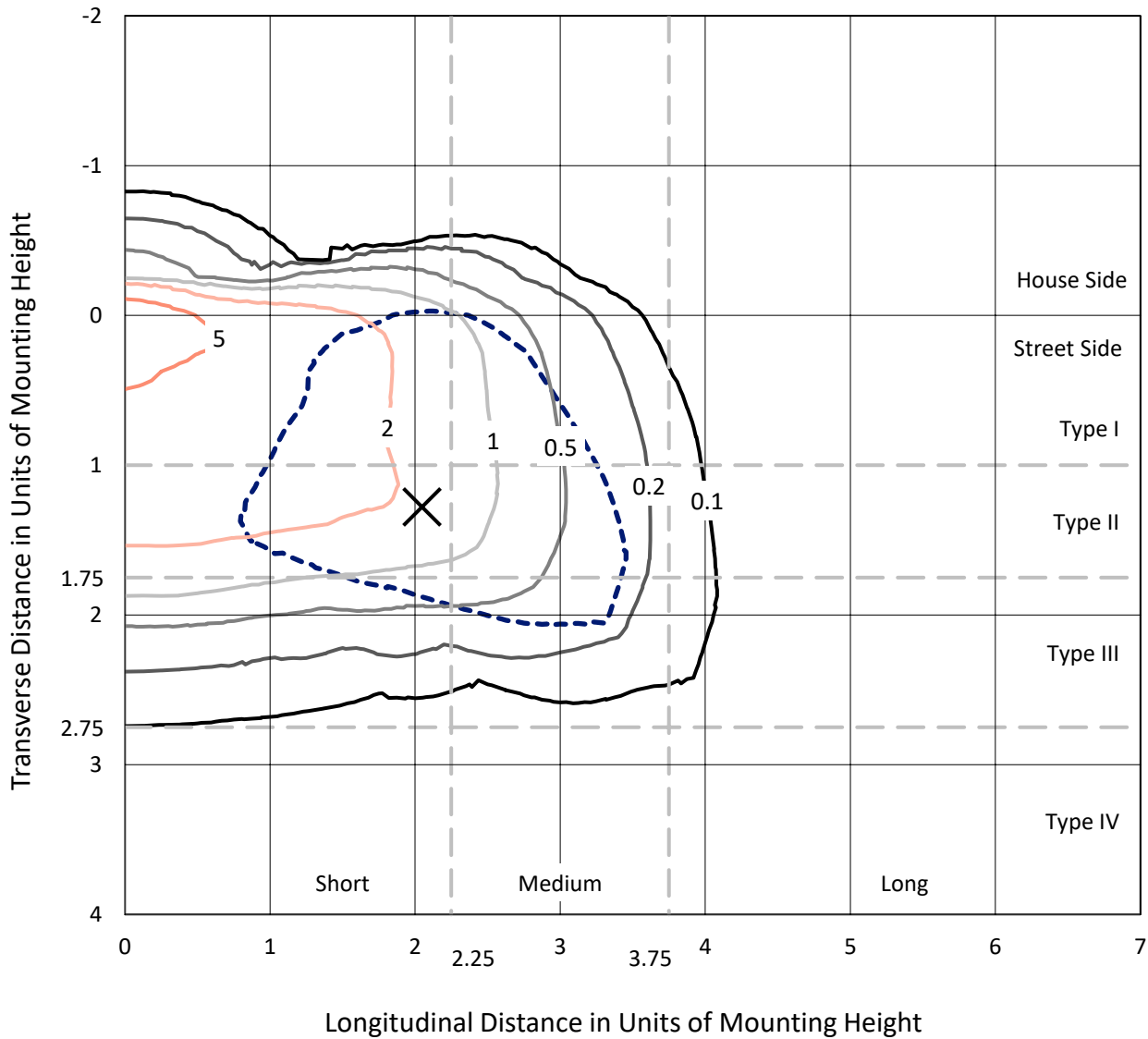
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

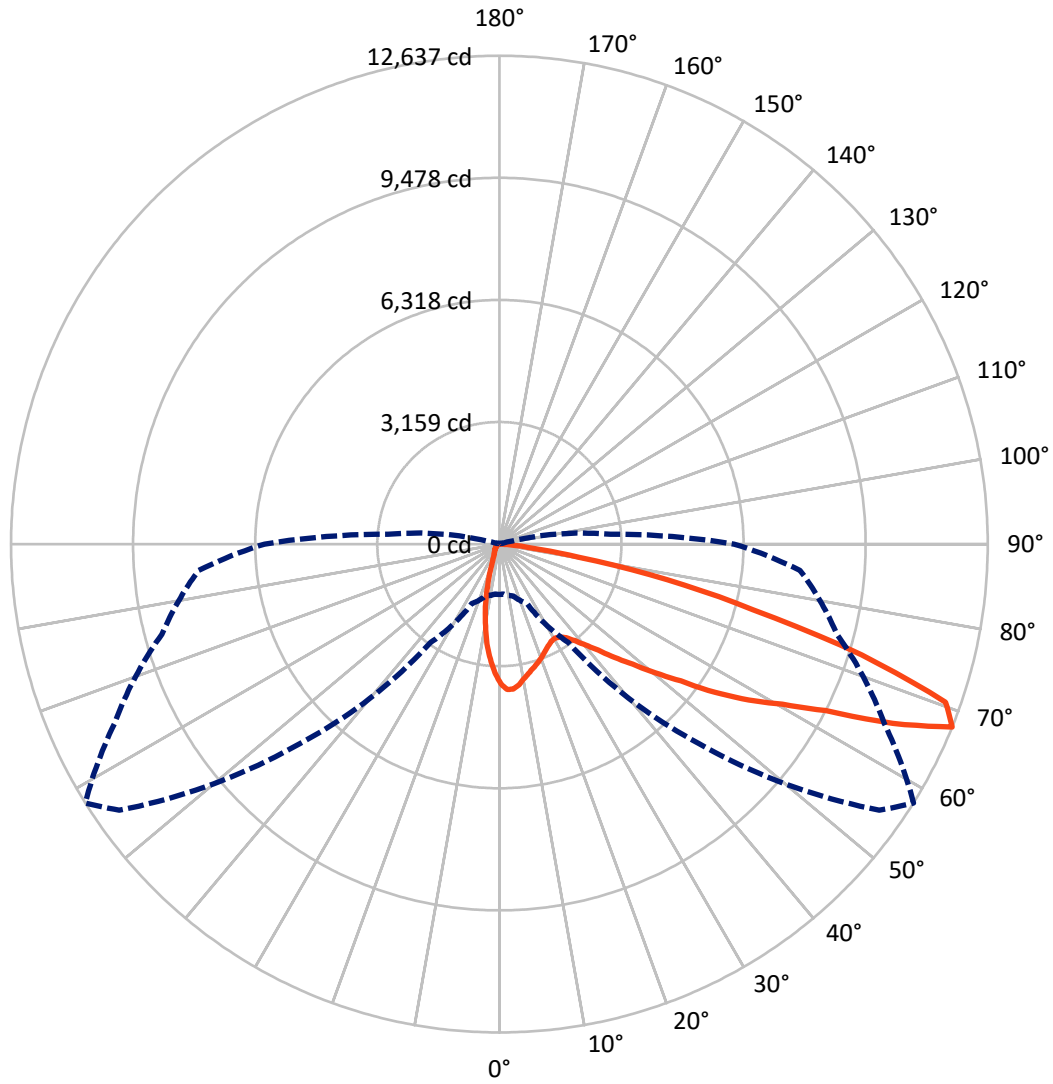
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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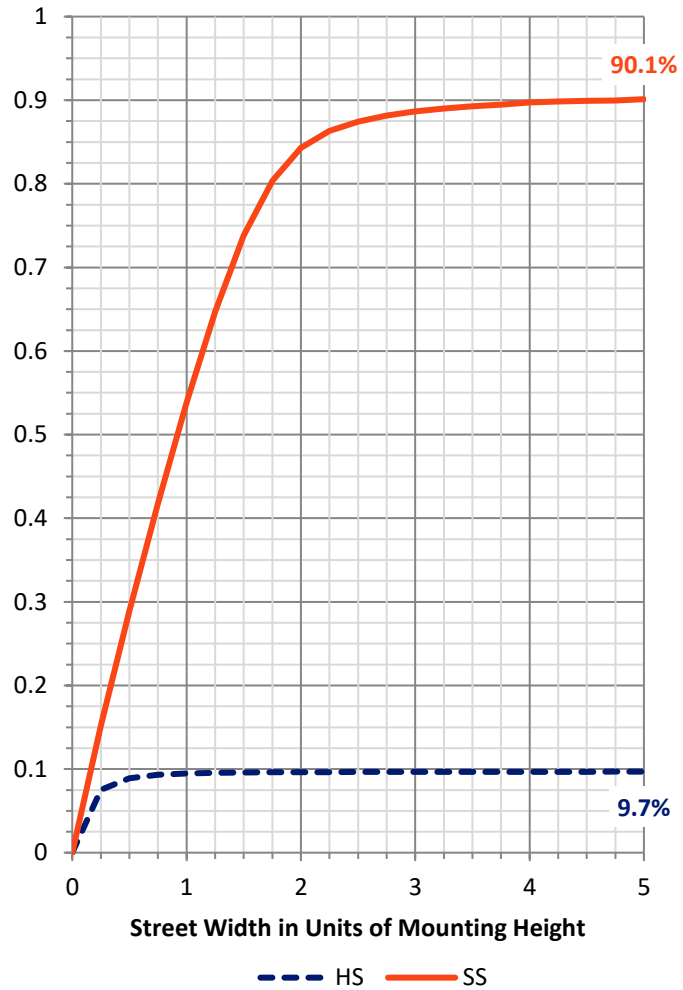
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1220.1	0.0	1220.1
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	11269.2	0.0	11269.2
	% Fixture	90.2	0.0	90.2
Total	Lumens	12489.3	0.0	12489.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	292.7	2.3
10°-20°	609.4	4.9
20°-30°	821.8	6.6
30°-40°	1154.8	9.2
40°-50°	1783.4	14.3
50°-60°	2852.0	22.8
60°-70°	3376.9	27.0
70°-80°	1493.9	12.0
80°-90°	104.4	0.8
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°	12489.3	100.0
0°-180°	12489.3	100.0

Coefficient of Utilization



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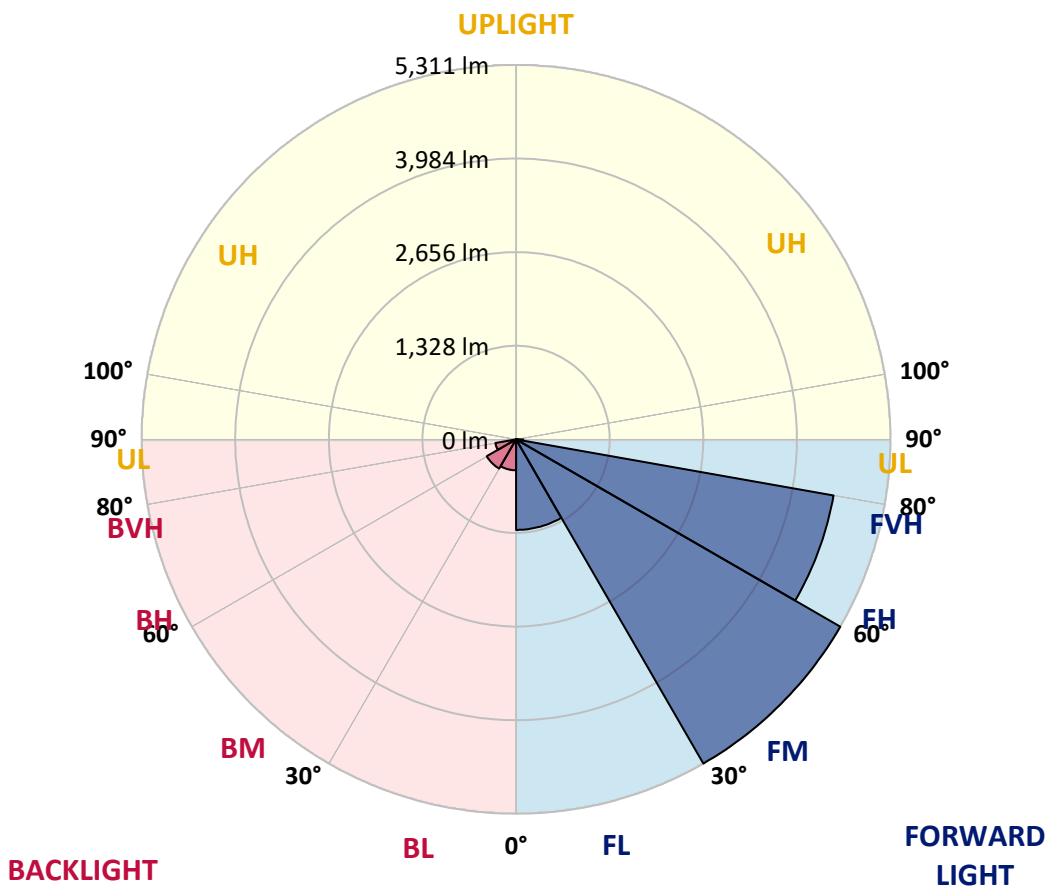
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1284.8	10.3			
FM (30°-60°)	5311.4	42.5			
FH (60°-80°)	4572.9	36.6			G2/5000
FVH (80°-90°)	100.0	0.8			G1/100
BL (0°-30°)	439.1	3.5	B1/500		
BM (30°-60°)	478.7	3.8	B1/1000		
BH (60°-80°)	297.9	2.4	B1/500		G1/500
BVH (80°-90°)	4.4	0.0			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3602.5	3602.5	3602.5	3602.5	3602.5	3602.5	3602.5	3602.5	3602.5	3602.5	3602.5
2.5°	3789.3	3795.9	3804.8	3815.8	3813.6	3803.7	3791.5	3763.9	3746.2	3690.9	3623.5
5°	3667.7	3666.6	3688.7	3709.7	3747.3	3767.2	3794.8	3769.4	3760.6	3694.2	3584.8
7.5°	3430.1	3442.2	3467.6	3500.8	3555.0	3613.6	3679.9	3672.1	3698.7	3654.5	3518.5
10°	3196.8	3190.2	3230.0	3279.7	3362.6	3437.8	3534.0	3532.9	3602.5	3598.1	3443.3
12.5°	2992.3	2991.2	3022.2	3078.5	3175.8	3280.8	3411.3	3414.6	3500.8	3536.2	3379.2
15°	2819.9	2822.1	2851.9	2910.5	3011.1	3139.3	3290.8	3318.4	3415.7	3487.5	3316.2
17.5°	2697.2	2698.3	2716.0	2766.8	2865.2	3002.3	3184.7	3222.2	3347.2	3451.1	3265.4
20°	2640.8	2636.4	2639.7	2665.1	2741.4	2866.3	3076.3	3125.0	3284.1	3425.6	3218.9
22.5°	2648.5	2641.9	2626.4	2623.1	2657.4	2752.4	2961.4	3021.1	3215.6	3410.2	3176.9
25°	2717.1	2702.7	2680.6	2647.4	2634.2	2681.7	2860.8	2922.7	3151.5	3411.3	3144.9
27.5°	2822.1	2806.6	2779.0	2734.8	2682.8	2662.9	2792.2	2850.8	3106.2	3436.7	3129.4
30°	2955.8	2943.7	2917.2	2864.1	2794.5	2712.7	2777.9	2826.5	3084.1	3488.6	3136.0
32.5°	3113.9	3105.1	3083.0	3034.3	2954.7	2829.8	2826.5	2864.1	3101.8	3563.8	3161.4
35°	3266.5	3269.8	3270.9	3244.4	3159.2	3007.8	2960.3	2973.5	3174.7	3676.6	3218.9
37.5°	3431.2	3423.4	3463.2	3482.0	3400.2	3238.8	3167.0	3168.1	3314.0	3843.5	3327.3
40°	3556.1	3558.3	3644.5	3721.9	3687.6	3531.8	3429.0	3427.8	3528.4	4072.3	3501.9
42.5°	3673.2	3687.6	3814.7	3947.4	3994.9	3856.7	3782.7	3755.0	3829.1	4381.8	3763.9
45°	3798.2	3819.2	3997.1	4186.2	4311.1	4229.3	4170.7	4181.7	4190.6	4742.2	4116.5
47.5°	3944.1	3957.3	4177.3	4443.7	4676.9	4655.9	4659.3	4646.0	4641.6	5196.5	4583.0
50°	4120.9	4151.9	4405.0	4723.4	5041.7	5181.0	5227.4	5233.0	5161.1	5691.7	5066.1
52.5°	4496.8	4534.4	4751.0	5029.6	5439.7	5732.6	5921.6	5884.0	5773.5	6171.5	5595.5
55°	4940.0	4968.8	5177.7	5466.2	5926.1	6337.3	6786.1	6770.6	6499.8	6676.6	6031.1
57.5°	4982.0	5014.1	5338.0	5780.1	6550.6	7084.5	7556.5	7606.3	7209.4	7034.8	6420.2
60°	4510.0	4575.3	5017.4	5612.1	6789.4	8089.3	8401.0	8411.0	7730.1	7398.4	6895.5
62.5°	3614.7	3645.6	4091.1	4867.1	6421.3	8675.2	9691.0	9481.0	8398.8	7961.1	7648.3
65°	1894.7	2020.7	2408.7	3267.6	5207.5	8470.7	11243.0	11185.5	9601.5	8766.9	8234.1
67.5°	1300.0	1298.8	1390.6	1703.4	3105.1	7293.4	12004.6	12636.9	10992.1	9043.3	7809.7
70°	989.3	992.6	1074.4	1277.8	1608.4	4854.9	11169.0	12250.0	11250.8	8210.9	6316.3
72.5°	656.6	663.2	799.2	1032.4	1284.5	2379.9	8679.6	9801.6	9466.7	6594.8	4445.9
75°	392.4	397.9	495.2	750.6	1141.9	1332.0	5514.8	6776.1	6516.3	4545.4	2383.2
77.5°	161.4	165.8	254.2	467.6	835.7	1034.7	3049.8	4433.8	3903.2	1807.3	651.1
80°	67.4	69.6	122.7	327.2	602.4	648.9	1412.7	2083.7	1599.5	389.1	199.0
82.5°	24.3	25.4	45.3	180.2	374.7	488.6	713.0	823.5	451.0	127.1	107.2
85°	1.1	1.1	11.1	60.8	142.6	138.2	407.9	394.6	149.2	53.1	64.1
87.5°	0.0	0.0	1.1	1.1	2.2	5.5	38.7	68.5	32.1	13.3	27.6
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°	3602.5	3602.5	3602.5	3602.5	3602.5	3602.5	3602.5	3602.5	3602.5	3602.5	3602.5
2.5°	3579.3	3520.7	3456.6	3396.9	3301.8	3245.5	3175.8	3144.9	3100.6	3089.6	3096.2
5°	3506.3	3405.7	3252.1	3112.8	2932.6	2787.8	2641.9	2580.0	2500.4	2447.4	2425.2
7.5°	3403.5	3272.0	3032.1	2779.0	2531.4	2267.2	2066.0	1933.3	1812.9	1746.5	1733.3
10°	3299.6	3128.3	2784.5	2421.9	2038.4	1722.2	1450.3	1249.1	1085.5	1011.4	954.0
12.5°	3192.4	2979.1	2532.5	2059.4	1613.9	1182.8	846.7	651.1	533.9	487.5	495.2
15°	3094.0	2835.4	2282.7	1696.8	1136.4	714.1	467.6	394.6	367.0	358.1	357.0
17.5°	3000.1	2699.4	2033.9	1344.2	749.5	437.7	358.1	340.5	332.7	328.3	328.3
20°	2914.9	2569.0	1790.7	1012.5	484.2	347.1	323.9	315.0	308.4	305.1	305.1
22.5°	2835.4	2442.9	1553.1	716.3	357.0	311.7	297.4	288.5	280.8	276.4	276.4
25°	2763.5	2329.1	1326.5	493.0	307.3	285.2	269.7	259.8	246.5	238.8	238.8
27.5°	2711.5	2227.4	1108.7	359.3	277.5	256.5	238.8	225.5	211.1	202.3	200.1
30°	2680.6	2141.2	888.7	295.1	249.8	228.8	208.9	192.3	175.8	166.9	165.8
32.5°	2662.9	2061.6	687.6	257.6	226.6	202.3	180.2	162.5	145.9	136.0	134.9
35°	2669.5	1999.7	515.1	232.1	204.5	179.1	154.8	137.1	122.7	113.9	111.6
37.5°	2727.0	1972.0	386.9	212.2	185.7	159.2	133.8	117.2	103.9	97.3	96.2
40°	2838.7	1977.6	304.0	196.8	170.2	139.3	115.0	99.5	89.5	84.0	82.9
42.5°	3012.2	2024.0	250.9	183.5	153.7	121.6	99.5	87.3	77.4	71.9	70.7
45°	3270.9	2120.2	218.9	168.0	136.0	105.0	86.2	75.2	66.3	59.7	58.6
47.5°	3645.6	2287.1	197.9	153.7	120.5	90.6	74.1	63.0	55.3	49.7	48.6
50°	4044.7	2487.2	180.2	139.3	107.2	78.5	63.0	52.0	45.3	39.8	38.7
52.5°	4470.2	2702.7	166.9	126.0	95.1	67.4	53.1	43.1	36.5	31.0	29.8
55°	4879.2	2919.4	151.4	117.2	80.7	57.5	44.2	35.4	28.7	24.3	24.3
57.5°	5277.2	3118.3	134.9	102.8	66.3	48.6	36.5	28.7	23.2	19.9	18.8
60°	5752.5	3393.6	116.1	87.3	55.3	40.9	29.8	23.2	18.8	15.5	15.5
62.5°	6458.9	3679.9	99.5	73.0	46.4	34.3	24.3	18.8	15.5	13.3	12.2
65°	6689.9	3525.1	84.0	59.7	37.6	27.6	19.9	16.6	13.3	12.2	11.1
67.5°	6073.1	2889.5	69.6	48.6	31.0	23.2	17.7	14.4	12.2	11.1	9.9
70°	4738.9	2050.5	54.2	36.5	25.4	18.8	15.5	13.3	11.1	9.9	9.9
72.5°	3223.3	1212.6	43.1	27.6	21.0	16.6	13.3	12.2	11.1	9.9	8.8
75°	1587.4	431.1	33.2	21.0	16.6	14.4	12.2	11.1	9.9	8.8	8.8
77.5°	427.8	119.4	25.4	16.6	13.3	11.1	11.1	11.1	9.9	7.7	7.7
80°	144.8	49.7	18.8	12.2	11.1	8.8	7.7	9.9	8.8	7.7	6.6
82.5°	79.6	24.3	13.3	9.9	7.7	6.6	6.6	6.6	6.6	5.5	5.5
85°	50.8	13.3	8.8	7.7	7.7	5.5	4.4	4.4	3.3	3.3	3.3
87.5°	23.2	7.7	7.7	6.6	6.6	5.5	3.3	2.2	1.1	1.1	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)