

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: P638718

Luminaire Tested: GWS-SA4F-735-U-T3-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638718
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-26)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4F-735-U-T3-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24636.7 lumens
Efficiency: N/A
Efficacy: 109.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

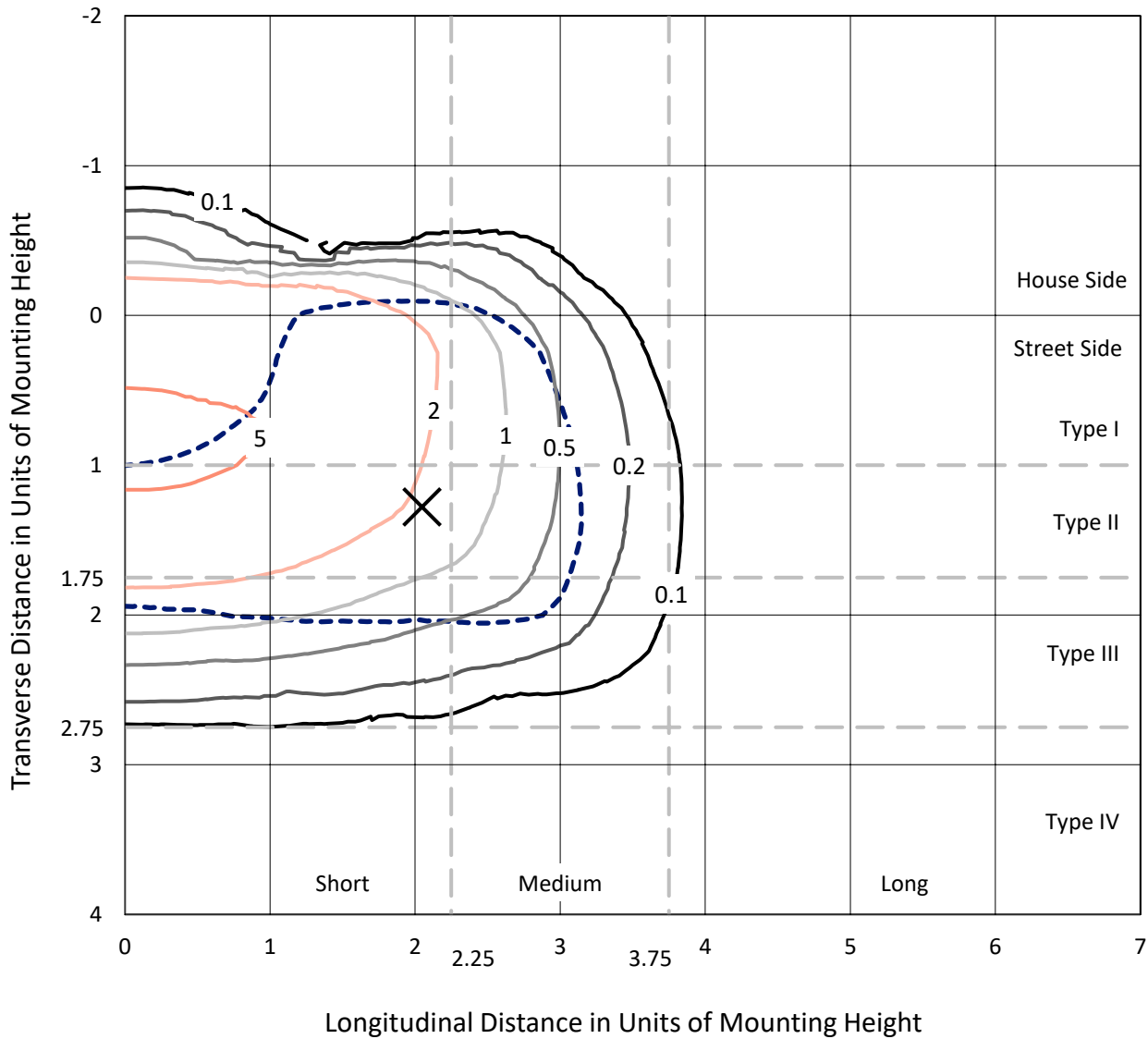
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

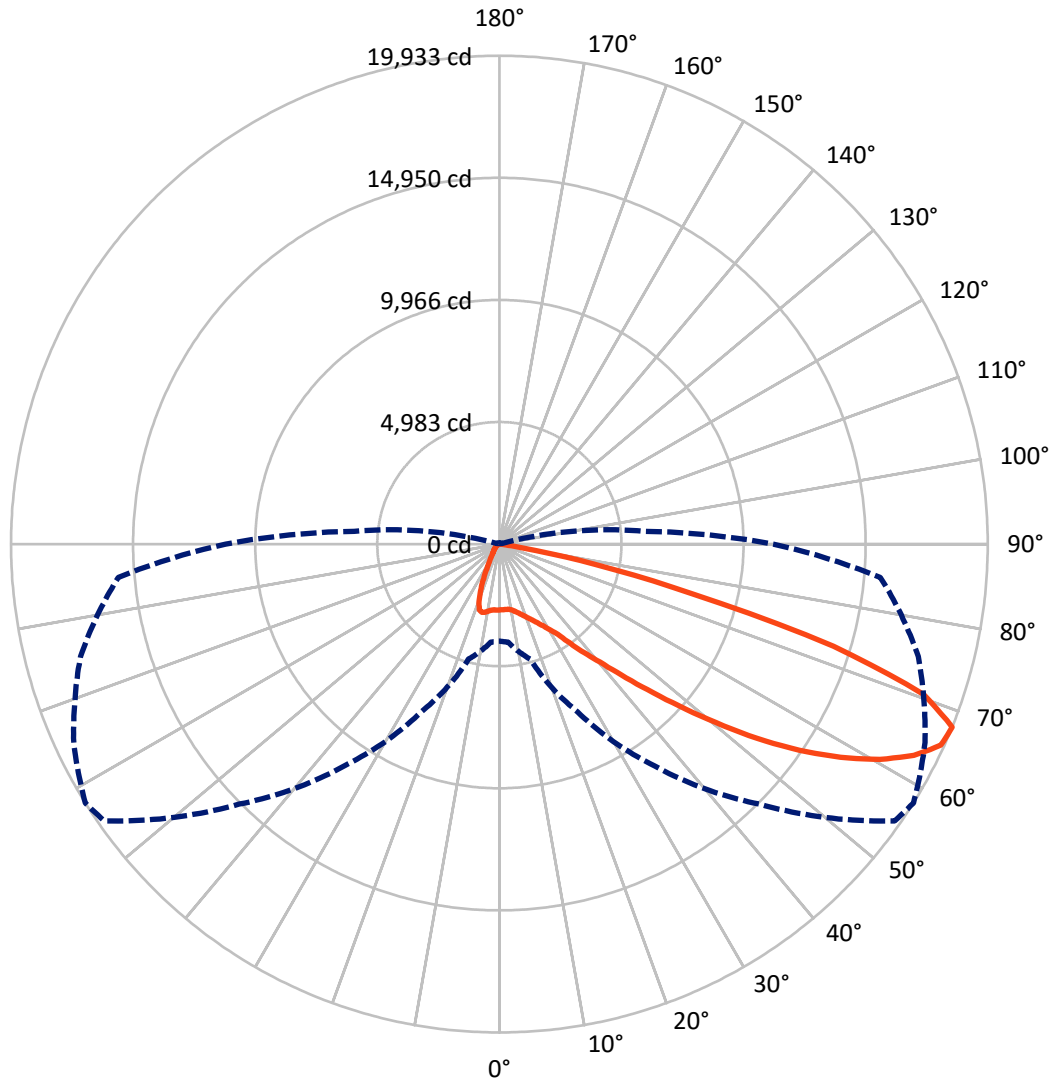
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 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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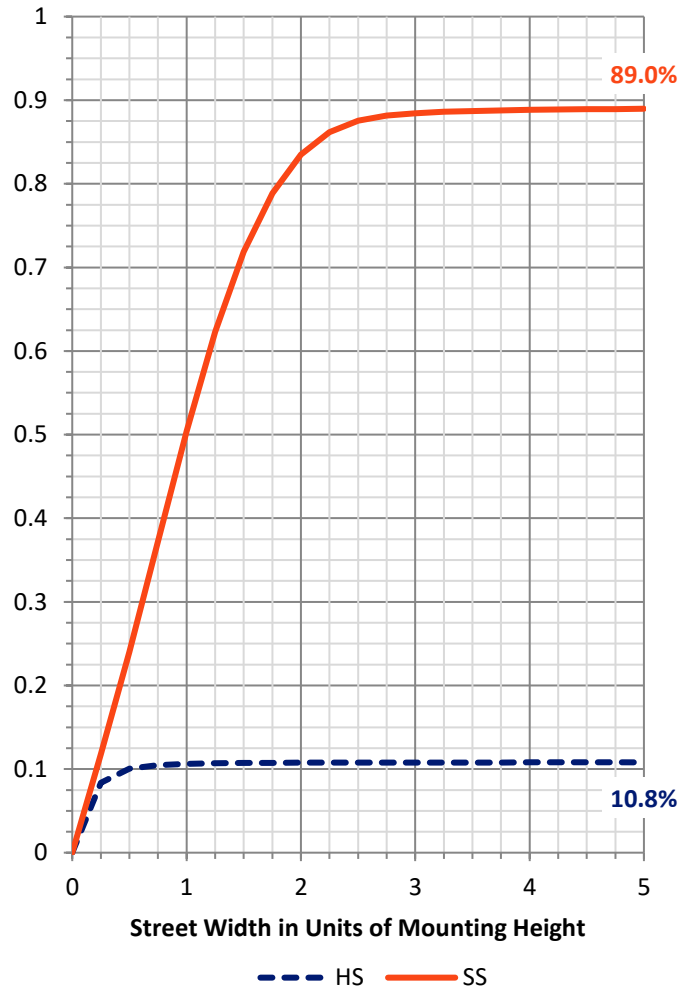
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2687.8	0.0	2687.8
	% Fixture	10.9	0.0	10.9
Street Side	Lumens	21948.9	0.0	21948.9
	% Fixture	89.1	0.0	89.1
Total	Lumens	24636.7	0.0	24636.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.2	1.0
10°-20°	708.1	2.9
20°-30°	1236.0	5.0
30°-40°	2207.3	9.0
40°-50°	4034.5	16.4
50°-60°	6709.8	27.2
60°-70°	7288.0	29.6
70°-80°	2139.8	8.7
80°-90°	60.9	0.2
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°	24636.7	100.0
0°-180°	24636.7	100.0

Coefficient of Utilization



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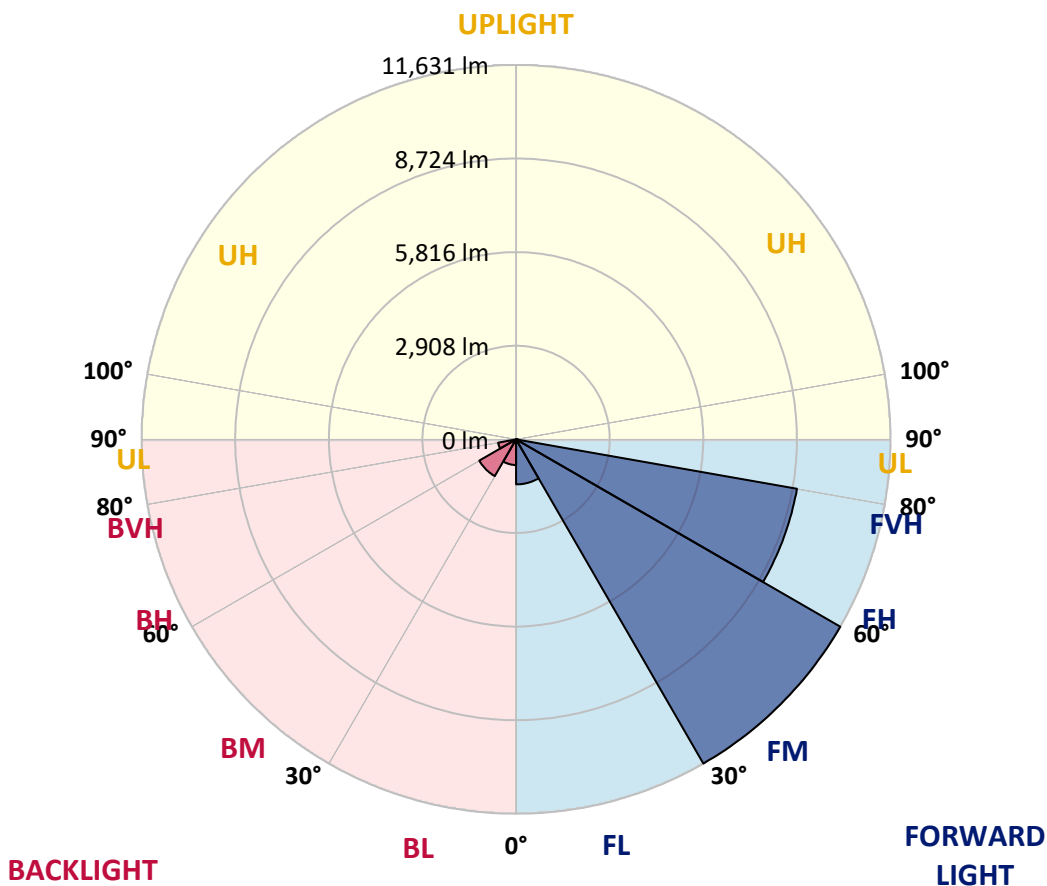
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1399.0	5.7			
FM (30°-60°)	11631.5	47.2			
FH (60°-80°)	8860.5	36.0			G4/12000
FVH (80°-90°)	57.9	0.2			G1/100
BL (0°-30°)	797.3	3.2	B2/1000		
BM (30°-60°)	1320.2	5.4	B2/2500		
BH (60°-80°)	567.4	2.3	B2/1000		G2/1000
BVH (80°-90°)	3.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2684.7	2684.7	2684.7	2684.7	2684.7	2684.7	2684.7	2684.7	2684.7	2684.7	2684.7
2.5°	2634.1	2629.3	2629.3	2648.6	2651.0	2660.6	2682.3	2684.7	2696.7	2691.9	2675.0
5°	2497.0	2499.4	2513.9	2547.5	2576.4	2612.5	2665.4	2677.4	2703.9	2718.3	2708.7
7.5°	2369.5	2371.9	2393.6	2446.5	2501.8	2574.0	2660.6	2684.7	2737.6	2776.1	2778.5
10°	2321.4	2319.0	2340.7	2400.8	2473.0	2574.0	2699.1	2730.4	2809.8	2877.1	2889.1
12.5°	2335.9	2333.4	2355.1	2410.4	2489.8	2617.3	2766.5	2809.8	2910.8	3014.2	3035.9
15°	2393.6	2391.2	2405.6	2451.3	2537.9	2670.2	2853.1	2918.0	3045.5	3170.6	3204.3
17.5°	2566.8	2554.8	2540.3	2545.1	2595.7	2732.8	2963.7	3043.1	3201.9	3351.0	3379.9
20°	2874.7	2843.4	2804.9	2754.4	2730.4	2824.2	3091.2	3182.6	3375.1	3545.9	3550.7
22.5°	3339.0	3327.0	3238.0	3091.2	2987.8	2990.2	3240.4	3346.2	3582.0	3769.6	3743.1
25°	3986.1	3978.9	3841.8	3601.2	3331.8	3240.4	3430.4	3538.7	3827.3	4027.0	3942.8
27.5°	4789.6	4739.1	4577.9	4253.1	3851.4	3565.1	3671.0	3767.2	4087.1	4274.8	4116.0
30°	5489.6	5492.0	5340.5	5001.3	4549.0	4053.5	3964.5	4048.6	4325.3	4522.6	4330.1
32.5°	6163.2	6184.8	6018.8	5713.3	5217.8	4690.9	4385.4	4399.9	4630.8	4844.9	4611.6
35°	6788.6	6805.5	6690.0	6430.2	5968.3	5357.3	4972.4	4965.2	5090.3	5309.2	5003.7
37.5°	7488.7	7505.5	7392.4	7159.1	6726.1	6119.9	5638.8	5629.1	5679.7	5857.7	5508.9
40°	8234.4	8265.7	8140.6	7943.3	7529.6	7017.2	6413.4	6326.8	6276.2	6485.5	6163.2
42.5°	8989.8	9037.9	8994.6	8797.3	8443.7	8020.3	7418.9	7284.2	7175.9	7438.2	7096.6
45°	9928.0	9985.7	9966.5	9814.9	9540.7	9196.7	8628.9	8472.6	8422.1	8665.0	8258.5
47.5°	10830.1	10892.6	10962.4	10928.7	10733.8	10575.1	9944.8	9855.8	9841.4	10101.2	9470.9
50°	11501.2	11559.0	11826.0	12018.4	12150.8	12117.1	11571.0	11438.7	11417.0	11583.0	10750.7
52.5°	11982.4	12037.7	12405.7	13007.2	13493.1	13757.7	13206.8	13177.9	13060.1	13002.3	11948.7
55°	12355.2	12432.2	12819.5	13728.8	14707.9	15294.9	14950.9	14847.4	14544.3	14212.4	13060.1
57.5°	12429.8	12461.1	13007.2	14234.0	15650.9	16601.1	16601.1	16420.7	15836.2	15376.7	14344.7
60°	11761.0	11857.3	12595.8	14193.1	16055.1	17455.1	17969.9	17844.8	17055.8	16490.5	15581.2
62.5°	10276.8	10385.0	11284.7	13214.0	15650.9	17630.7	19006.7	18987.5	18097.4	17411.8	16605.9
65°	7880.8	7960.2	8744.4	11053.8	13942.9	16954.8	19747.7	19800.6	18920.1	18020.4	16959.6
67.5°	3959.6	4015.0	4861.7	7551.2	11051.4	15008.6	19697.2	19932.9	19170.3	17698.1	15610.0
70°	1383.2	1438.6	1837.9	3240.4	6726.1	11460.3	17994.0	18378.9	17700.5	15107.3	11515.7
72.5°	473.9	500.4	762.6	1202.8	2617.3	6793.5	13683.1	14262.9	13048.0	10142.1	6617.8
75°	269.4	286.3	409.0	651.9	1097.0	2234.8	7762.9	8118.9	7606.5	5528.1	2723.2
77.5°	182.8	197.3	255.0	370.5	606.2	719.3	3165.8	3986.1	3476.1	1804.2	695.2
80°	108.3	117.9	156.4	218.9	310.3	279.1	678.4	902.1	1161.9	538.9	209.3
82.5°	50.5	57.7	101.0	144.3	156.4	117.9	199.7	243.0	327.2	264.6	86.6
85°	0.0	0.0	33.7	60.1	57.7	33.7	55.3	60.1	89.0	132.3	33.7
87.5°	0.0	0.0	0.0	0.0	0.0	2.4	4.8	7.2	14.4	26.5	14.4
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°	2684.7	2684.7	2684.7	2684.7	2684.7	2684.7	2684.7	2684.7	2684.7	2684.7	2684.7
2.5°	2694.3	2677.4	2696.7	2687.1	2696.7	2694.3	2675.0	2663.0	2663.0	2641.4	2634.1
5°	2728.0	2711.1	2715.9	2694.3	2689.5	2677.4	2653.4	2643.8	2643.8	2622.1	2614.9
7.5°	2802.5	2776.1	2771.3	2728.0	2708.7	2675.0	2631.7	2614.9	2612.5	2590.8	2583.6
10°	2920.4	2889.1	2867.5	2812.2	2756.8	2689.5	2598.1	2521.1	2477.8	2420.0	2415.2
12.5°	3064.8	3026.3	2992.6	2908.4	2817.0	2665.4	2396.0	2114.5	1941.3	1804.2	1813.8
15°	3225.9	3189.8	3136.9	3009.4	2821.8	2427.3	1864.4	1431.3	1219.6	1106.6	1101.8
17.5°	3401.5	3348.6	3262.0	3088.8	2670.2	1854.7	1212.4	856.4	745.7	707.3	697.6
20°	3565.1	3500.2	3391.9	3105.6	2232.4	1255.7	757.8	663.9	644.7	632.7	632.7
22.5°	3738.3	3656.5	3495.4	2975.7	1659.9	803.5	644.7	623.1	608.6	591.8	589.4
25°	3913.9	3808.1	3589.2	2636.6	1087.3	632.7	603.8	579.8	553.3	526.8	519.6
27.5°	4063.1	3926.0	3661.3	2131.4	697.6	570.1	550.9	510.0	473.9	445.0	440.2
30°	4241.1	4065.5	3692.6	1558.8	548.5	502.8	473.9	430.6	387.3	358.4	348.8
32.5°	4479.3	4286.8	3644.5	1015.2	485.9	442.6	396.9	346.4	303.1	271.8	267.0
35°	4849.7	4621.2	3423.2	647.1	440.2	382.5	327.2	274.2	238.2	214.1	209.3
37.5°	5302.0	5090.3	3059.9	485.9	394.5	332.0	267.0	216.5	190.0	173.2	168.4
40°	5973.1	5677.2	2610.1	425.8	348.8	281.5	218.9	178.0	158.8	144.3	139.5
42.5°	6844.0	6370.1	2092.9	387.3	305.5	235.8	178.0	146.7	129.9	120.3	117.9
45°	7861.5	7046.0	1546.8	348.8	264.6	194.9	146.7	120.3	108.3	101.0	98.6
47.5°	8903.2	7637.8	1068.1	307.9	226.1	161.2	122.7	103.4	93.8	84.2	81.8
50°	10014.6	8138.2	728.9	267.0	192.4	132.3	105.8	93.8	81.8	74.6	72.2
52.5°	10830.1	8323.4	507.6	230.9	163.6	113.1	93.8	84.2	74.6	65.0	62.5
55°	11583.0	8318.6	384.9	194.9	139.5	98.6	84.2	74.6	65.0	57.7	55.3
57.5°	12333.6	8253.7	303.1	166.0	120.3	89.0	74.6	65.0	60.1	50.5	48.1
60°	12819.5	8008.3	235.8	139.5	103.4	77.0	65.0	57.7	50.5	43.3	40.9
62.5°	13076.9	7666.7	180.4	110.7	84.2	67.4	57.7	50.5	43.3	36.1	33.7
65°	12728.1	7060.5	141.9	86.6	65.0	57.7	48.1	40.9	33.7	26.5	24.1
67.5°	11181.3	5953.9	110.7	69.8	50.5	43.3	40.9	33.7	24.1	19.2	16.8
70°	7902.4	4077.5	86.6	52.9	38.5	33.7	31.3	26.5	19.2	14.4	12.0
72.5°	4337.3	2056.8	62.5	38.5	28.9	26.5	24.1	21.7	16.8	12.0	12.0
75°	1669.5	565.3	45.7	26.5	19.2	19.2	16.8	16.8	14.4	9.6	9.6
77.5°	435.4	168.4	28.9	16.8	12.0	12.0	12.0	9.6	9.6	7.2	7.2
80°	139.5	55.3	16.8	12.0	9.6	7.2	7.2	4.8	7.2	4.8	4.8
82.5°	45.7	19.2	9.6	9.6	7.2	4.8	4.8	2.4	2.4	0.0	0.0
85°	16.8	9.6	7.2	4.8	4.8	4.8	2.4	0.0	0.0	0.0	0.0
87.5°	9.6	4.8	4.8	4.8	4.8	2.4	0.0	0.0	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)