

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: P633847

Luminaire Tested: GWS-SA2F-750-U-RW-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633847
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-51)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2F-750-U-RW-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14628.5 lumens
Efficiency: N/A
Efficacy: 117.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

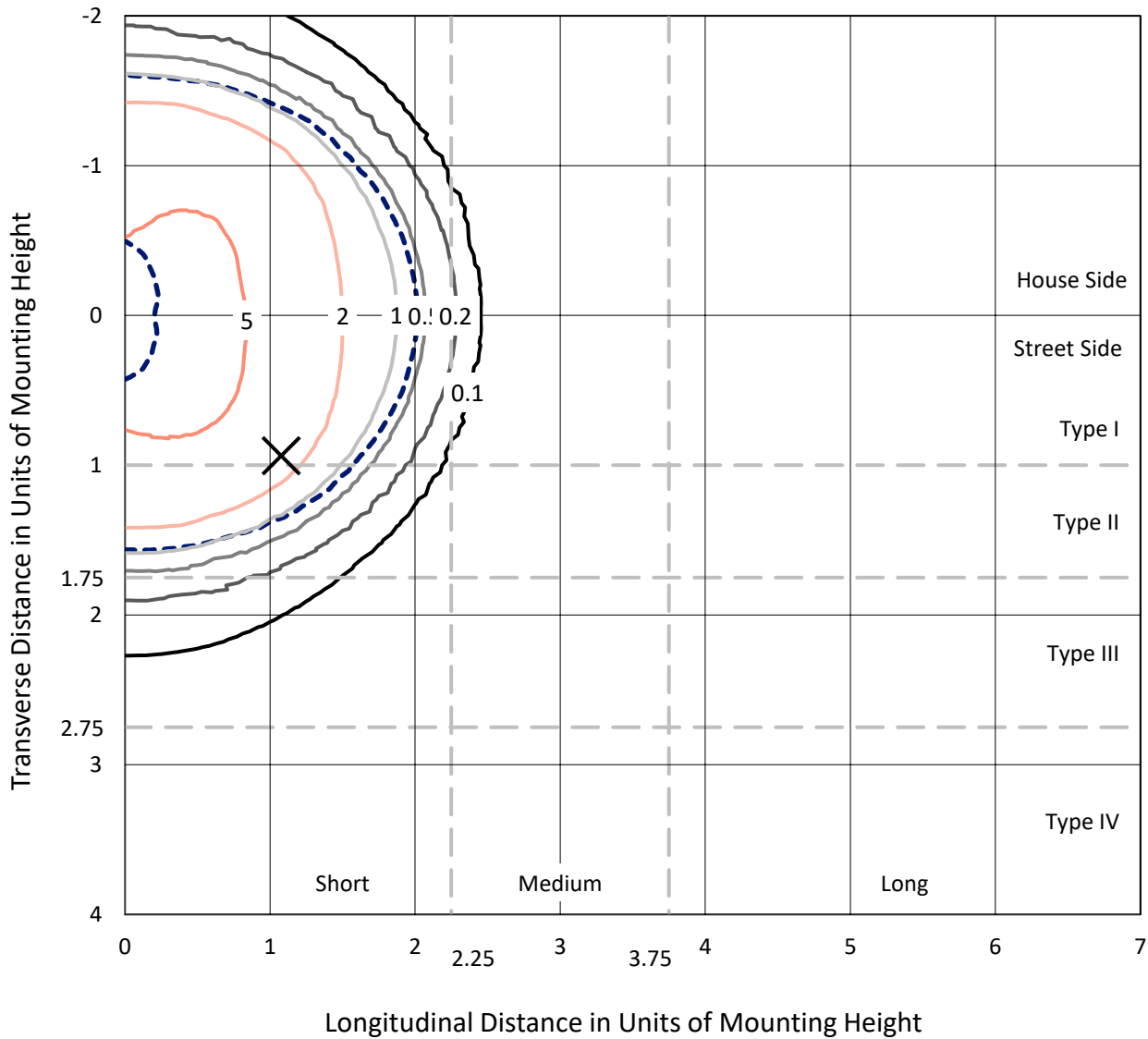
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

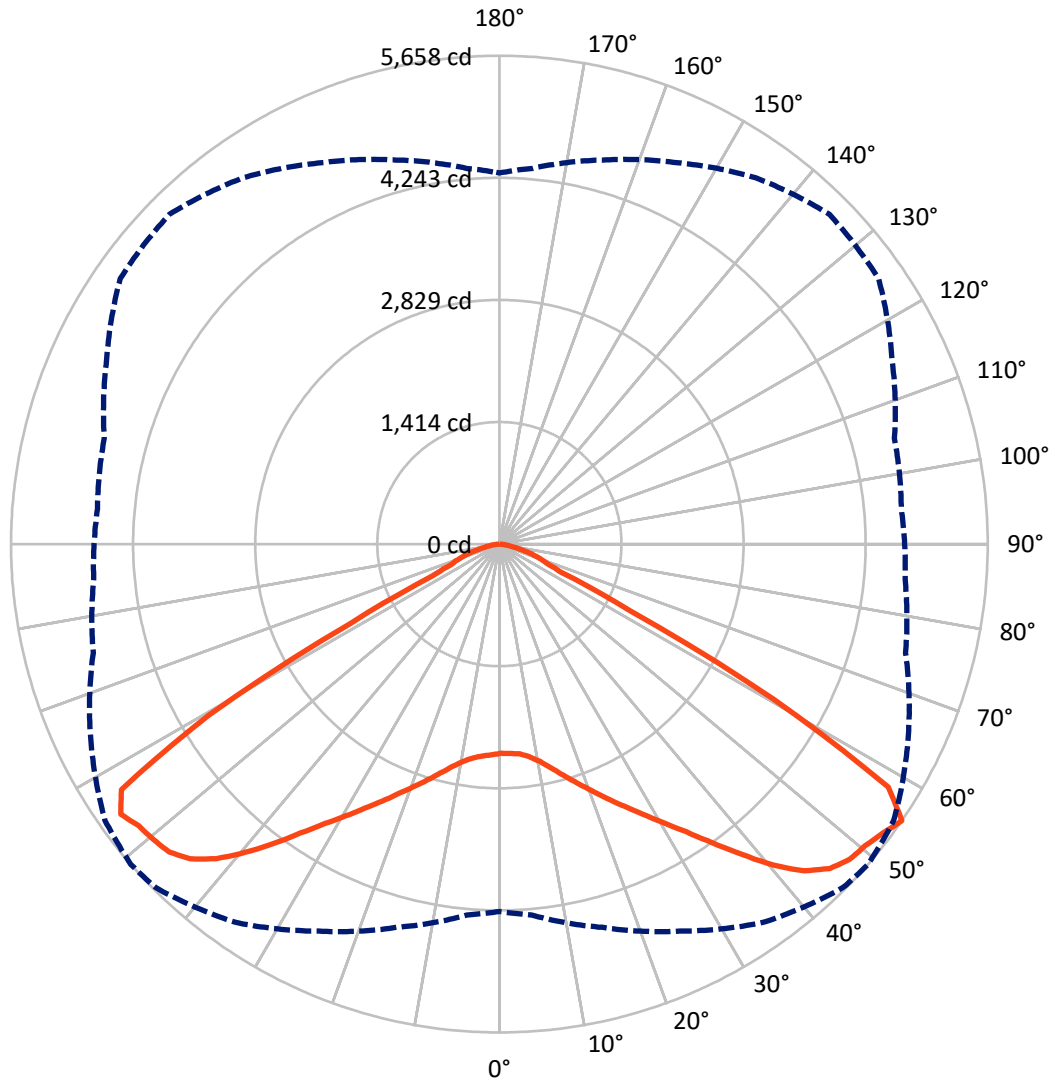
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 49-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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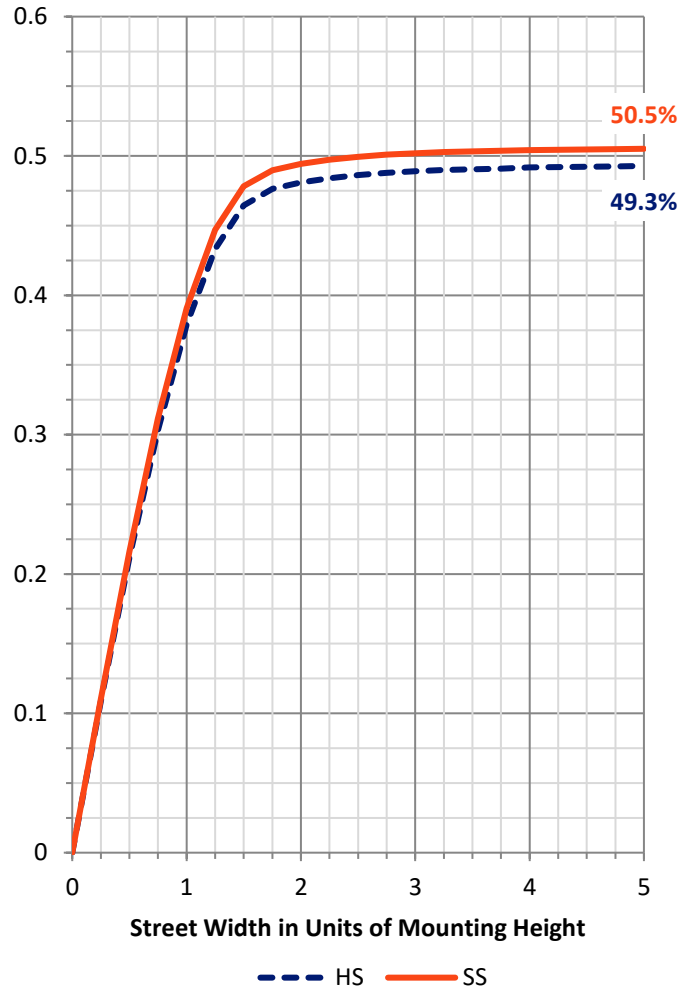
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7242.5	0.0	7242.5
	% Fixture	49.5	0.0	49.5
Street Side	Lumens	7386.0	0.0	7386.0
	% Fixture	50.5	0.0	50.5
Total	Lumens	14628.5	0.0	14628.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.4	1.6
10°-20°	779.7	5.3
20°-30°	1485.2	10.2
30°-40°	2517.7	17.2
40°-50°	3788.9	25.9
50°-60°	4147.3	28.4
60°-70°	1311.4	9.0
70°-80°	314.7	2.2
80°-90°	47.2	0.3
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°	14628.5	100.0
0°-180°	14628.5	100.0

Coefficient of Utilization



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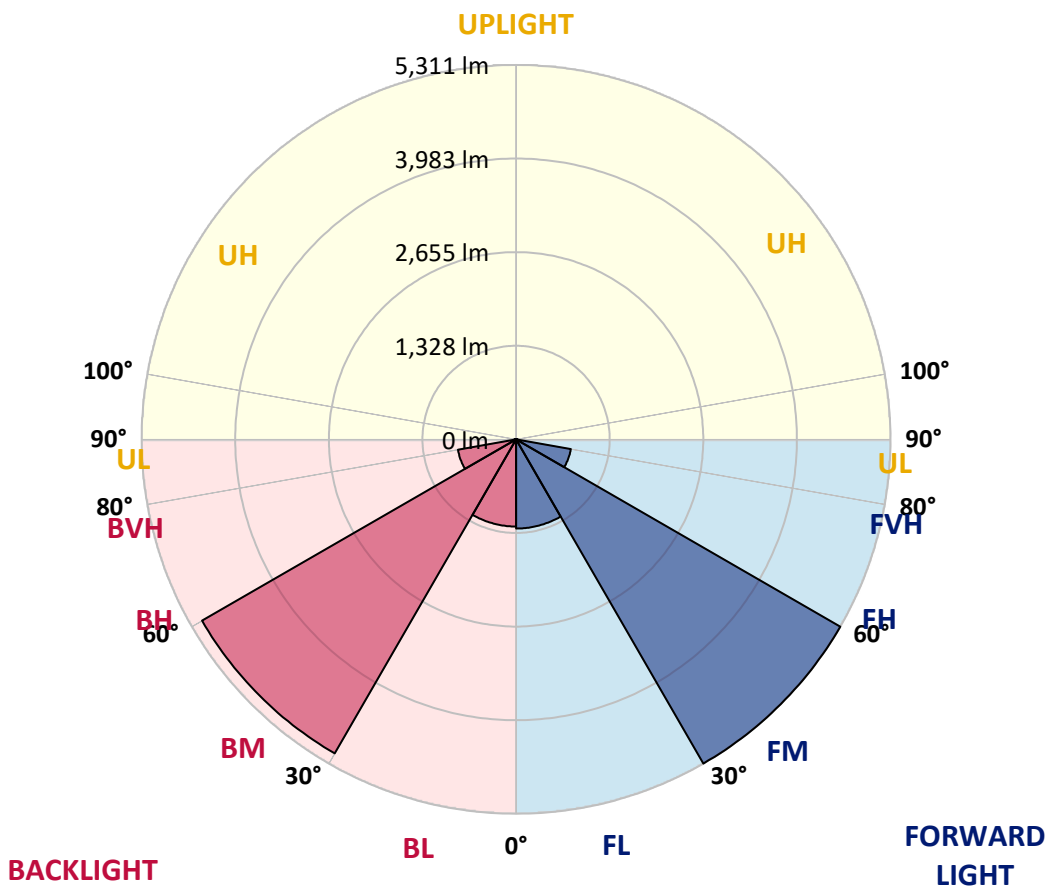
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1264.8	8.6			
FM (30°-60°)	5310.6	36.3			
FH (60°-80°)	788.8	5.4			G1/1800
FVH (80°-90°)	21.9	0.1			G1/100
BL (0°-30°)	1236.5	8.5	B3/2500		
BM (30°-60°)	5143.3	35.2	B4/8500		
BH (60°-80°)	837.3	5.7	B2/1000		G1/1800
BVH (80°-90°)	25.4	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	49°	55°	65°	75°	85°
0°	2423.3	2423.3	2423.3	2423.3	2423.3	2423.3	2423.3	2423.3	2423.3	2423.3	2423.3
2.5°	2387.6	2390.0	2394.7	2403.1	2411.4	2423.3	2428.1	2434.0	2432.8	2440.0	2440.0
5°	2375.7	2379.3	2386.4	2398.3	2412.6	2435.2	2441.1	2455.4	2469.7	2487.5	2493.5
7.5°	2390.0	2394.7	2403.1	2422.1	2443.5	2473.3	2485.2	2509.0	2536.3	2568.4	2581.5
10°	2417.4	2423.3	2437.6	2468.5	2503.0	2548.2	2558.9	2588.7	2632.7	2676.7	2702.9
12.5°	2448.3	2457.8	2484.0	2532.7	2583.9	2643.4	2660.0	2696.9	2744.5	2801.6	2837.3
15°	2484.0	2492.3	2532.7	2601.7	2681.5	2760.0	2779.0	2814.7	2868.2	2924.1	2974.1
17.5°	2558.9	2573.2	2620.8	2700.5	2793.3	2886.1	2907.5	2947.9	2990.8	3034.8	3082.4
20°	2661.2	2673.1	2733.8	2832.5	2942.0	3026.4	3047.9	3083.6	3103.8	3126.4	3166.8
22.5°	2763.5	2780.2	2849.2	2965.8	3094.3	3185.9	3202.5	3235.8	3221.5	3214.4	3240.6
25°	2890.8	2913.4	2981.2	3108.5	3239.4	3352.4	3365.5	3394.0	3370.3	3333.4	3332.2
27.5°	3049.1	3069.3	3139.5	3270.3	3400.0	3517.8	3542.8	3580.8	3528.5	3483.3	3451.2
30°	3237.0	3250.1	3327.4	3466.6	3599.9	3711.7	3743.8	3781.9	3742.6	3667.7	3635.5
32.5°	3455.9	3473.8	3563.0	3709.3	3828.3	3940.1	3972.2	4019.8	3977.0	3892.5	3852.1
35°	3718.8	3736.7	3830.6	3990.1	4111.4	4226.8	4249.4	4288.7	4235.1	4137.6	4105.5
37.5°	4004.3	4026.9	4145.9	4297.0	4424.3	4558.7	4559.9	4571.8	4495.7	4374.3	4338.6
40°	4325.5	4355.3	4474.2	4631.3	4784.7	4894.2	4893.0	4859.7	4731.2	4543.2	4488.5
42.5°	4643.2	4667.0	4787.1	4948.9	5102.4	5205.9	5174.9	5094.0	4908.5	4652.7	4580.1
45°	4872.8	4890.6	5016.7	5198.7	5354.6	5418.8	5362.9	5265.4	5014.3	4721.7	4614.6
47.5°	4981.0	5004.8	5132.1	5312.9	5489.0	5525.9	5459.3	5367.7	5076.2	4785.9	4642.0
50°	4922.7	4953.7	5097.6	5265.4	5464.0	5540.2	5492.6	5401.0	5141.6	4849.0	4690.8
52.5°	4771.7	4801.4	4983.4	5186.8	5411.7	5562.8	5561.6	5486.6	5216.6	4866.8	4693.1
55°	4255.3	4313.6	4596.8	4947.7	5347.4	5629.4	5657.9	5578.2	5228.5	4871.6	4718.1
57.5°	2769.5	2871.8	3140.7	3597.5	4399.3	5120.2	5312.9	5332.0	5142.8	4851.4	4722.9
60°	1156.3	1238.4	1451.4	1754.7	2417.4	3275.1	3648.6	4023.4	4475.4	4639.6	4678.9
62.5°	718.5	725.7	747.1	816.1	1037.4	1456.1	1696.4	2047.4	2719.5	3291.7	3555.8
65°	648.4	651.9	656.7	651.9	662.6	713.8	778.0	900.6	1174.2	1458.5	1796.4
67.5°	571.0	575.8	579.4	575.8	579.4	581.7	588.9	599.6	649.5	690.0	720.9
70°	461.6	468.7	474.7	472.3	486.6	486.6	493.7	502.0	527.0	556.8	578.2
72.5°	352.1	346.2	353.3	355.7	368.8	375.9	386.6	396.2	424.7	442.5	469.9
75°	228.4	222.5	233.2	239.1	257.0	266.5	276.0	285.5	305.7	317.6	343.8
77.5°	123.7	122.5	133.2	141.6	160.6	172.5	179.6	186.8	203.4	207.0	223.7
80°	71.4	71.4	78.5	84.5	96.4	109.4	116.6	122.5	134.4	138.0	145.1
82.5°	39.3	39.3	42.8	46.4	55.9	63.1	69.0	73.8	84.5	88.0	91.6
85°	19.0	17.8	20.2	22.6	26.2	29.7	33.3	35.7	44.0	46.4	51.2
87.5°	2.4	2.4	2.4	3.6	4.8	7.1	8.3	8.3	13.1	15.5	17.8
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°	2423.3	2423.3	2423.3	2423.3	2423.3	2423.3	2423.3	2423.3	2423.3	2423.3	2423.3
2.5°	2447.1	2431.6	2441.1	2444.7	2444.7	2441.1	2425.7	2420.9	2413.8	2403.1	2403.1
5°	2501.8	2489.9	2492.3	2486.4	2472.1	2454.2	2425.7	2411.4	2399.5	2386.4	2385.2
7.5°	2595.8	2580.3	2578.0	2555.3	2517.3	2479.2	2436.4	2410.2	2392.4	2375.7	2374.5
10°	2718.3	2704.1	2686.2	2641.0	2585.1	2529.2	2470.9	2435.2	2409.0	2385.2	2384.0
12.5°	2855.1	2838.5	2805.2	2738.6	2668.4	2613.6	2547.0	2492.3	2453.0	2420.9	2415.0
15°	3003.8	2980.1	2922.9	2844.4	2775.4	2717.1	2645.8	2567.2	2507.8	2456.6	2450.7
17.5°	3118.1	3087.1	3025.3	2951.5	2894.4	2836.1	2743.3	2644.6	2558.9	2494.7	2485.2
20°	3196.6	3171.6	3101.4	3046.7	3013.4	2962.2	2853.9	2742.1	2645.8	2564.9	2560.1
22.5°	3269.1	3239.4	3170.4	3138.3	3138.3	3103.8	3000.3	2868.2	2755.2	2661.2	2649.3
25°	3351.2	3319.1	3266.8	3263.2	3279.8	3264.4	3139.5	2997.9	2865.8	2760.0	2740.9
27.5°	3465.4	3429.7	3398.8	3420.2	3444.0	3427.4	3288.2	3124.0	2984.8	2877.7	2861.1
30°	3647.4	3603.4	3574.9	3601.0	3647.4	3598.7	3447.6	3273.9	3133.5	3015.7	3007.4
32.5°	3859.2	3809.2	3779.5	3821.1	3862.8	3786.6	3636.7	3470.2	3322.7	3198.9	3184.7
35°	4113.8	4050.7	4006.7	4062.6	4105.5	4030.5	3881.8	3723.6	3559.4	3430.9	3411.9
37.5°	4339.8	4263.7	4233.9	4312.5	4369.6	4320.8	4159.0	4010.3	3830.6	3690.3	3681.9
40°	4504.0	4429.0	4407.6	4537.3	4637.2	4625.3	4480.2	4310.1	4141.1	3979.4	3963.9
42.5°	4575.4	4523.0	4527.8	4702.7	4857.3	4933.4	4803.8	4621.8	4458.8	4291.0	4280.3
45°	4590.8	4558.7	4596.8	4815.7	5019.1	5174.9	5064.3	4912.0	4727.6	4565.8	4561.1
47.5°	4607.5	4589.6	4647.9	4879.9	5121.4	5302.2	5240.4	5083.3	4896.6	4738.3	4726.4
50°	4646.7	4639.6	4705.0	4925.1	5170.2	5336.7	5266.5	5110.7	4919.2	4763.3	4734.8
52.5°	4658.6	4646.7	4740.7	4995.3	5251.1	5335.5	5184.5	4981.0	4788.3	4614.6	4584.9
55°	4695.5	4674.1	4738.3	5021.5	5362.9	5404.5	5179.7	4875.2	4606.3	4369.6	4299.4
57.5°	4705.0	4681.2	4722.9	4978.6	5241.6	5204.7	4552.8	3934.1	3427.4	3164.4	3194.2
60°	4653.9	4661.0	4589.6	4561.1	4204.2	3711.7	2787.3	2228.2	1750.0	1547.7	1591.7
62.5°	3542.8	3572.5	3328.6	2894.4	2225.8	1764.2	1167.0	906.5	767.3	731.6	737.6
65°	1788.0	1828.5	1575.1	1302.7	968.4	782.8	676.9	655.5	648.4	640.0	640.0
67.5°	707.8	719.7	710.2	665.0	618.6	602.0	597.2	594.8	586.5	581.7	582.9
70°	568.6	578.2	563.9	535.3	516.3	515.1	512.7	508.0	502.0	502.0	505.6
72.5°	464.0	473.5	453.3	435.4	421.1	410.4	404.5	400.9	392.6	392.6	396.2
75°	341.4	347.4	330.7	328.3	312.9	302.2	292.7	287.9	277.2	272.4	276.0
77.5°	227.2	226.0	217.7	217.7	211.8	198.7	188.0	177.3	163.0	153.5	155.8
80°	147.5	147.5	143.9	143.9	138.0	127.3	114.2	103.5	95.2	88.0	88.0
82.5°	94.0	92.8	91.6	90.4	88.0	77.3	67.8	60.7	54.7	50.0	51.2
85°	52.3	52.3	50.0	50.0	45.2	39.3	34.5	29.7	26.2	25.0	25.0
87.5°	17.8	17.8	16.7	16.7	14.3	10.7	8.3	7.1	5.9	4.8	5.9
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)