

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: P638961

Luminaire Tested: GWS-SA4F-830-U-RW-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638961
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-50)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4F-830-U-RW-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17517.9 lumens
Efficiency: N/A
Efficacy: 77.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G0

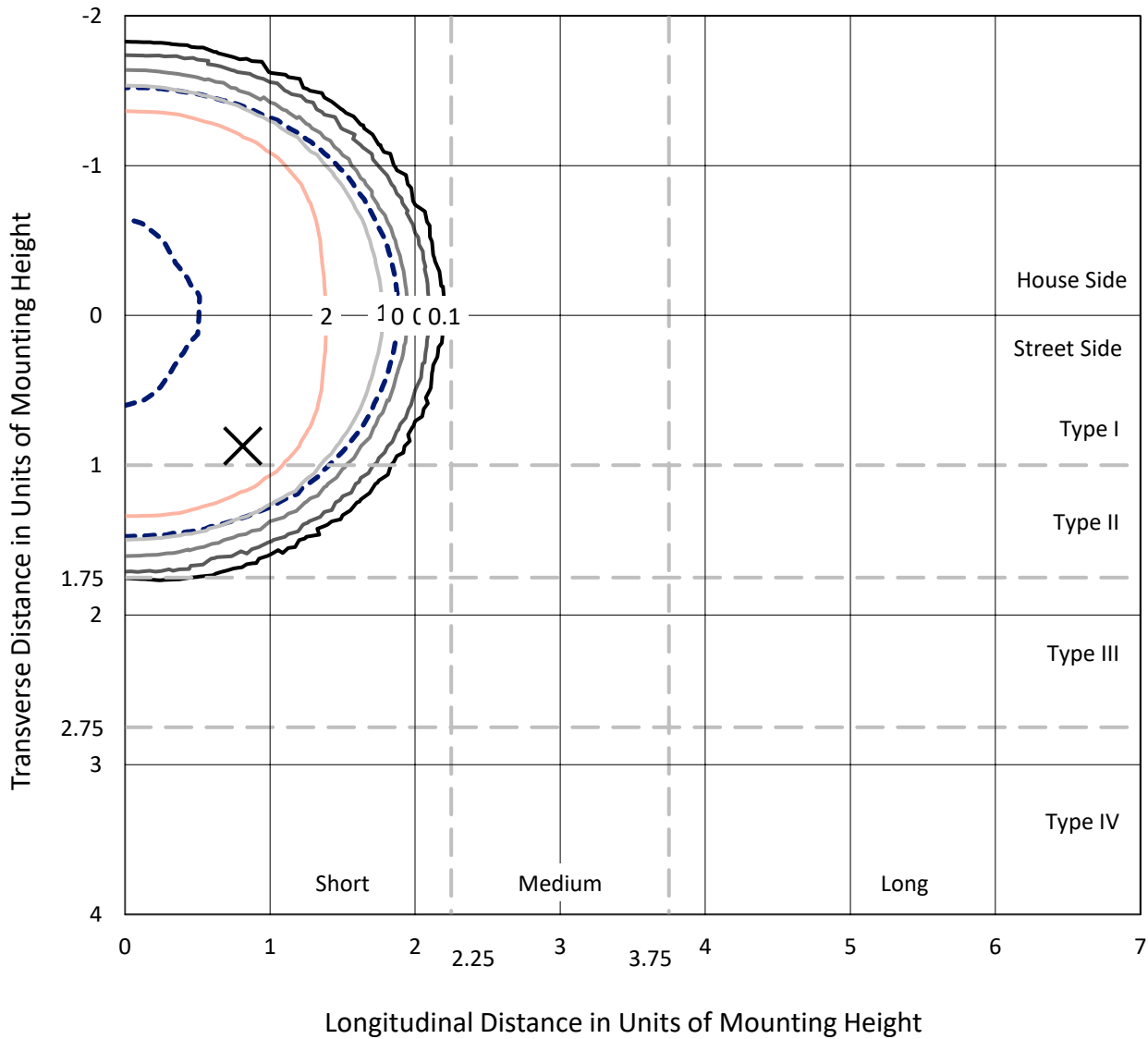
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P638961
 CATALOG NUMBER: GWS-SA4F-830-U-RW-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

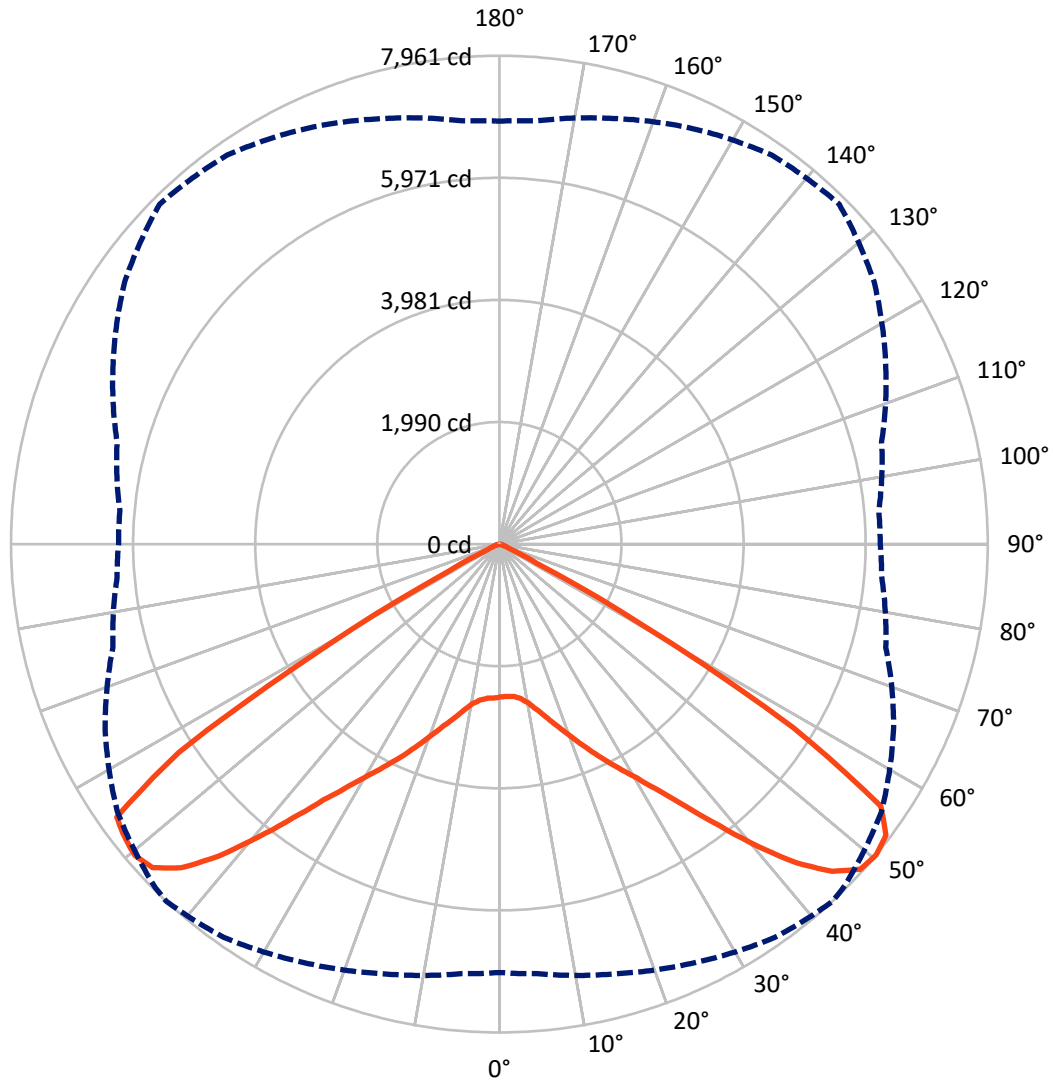
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type V - Short - N/A

REPORT NUMBER: P638961
CATALOG NUMBER: GWS-SA4F-830-U-RW-W-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 43-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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 CATALOG NUMBER: GWS-SA4F-830-U-RW-W-GRSBK

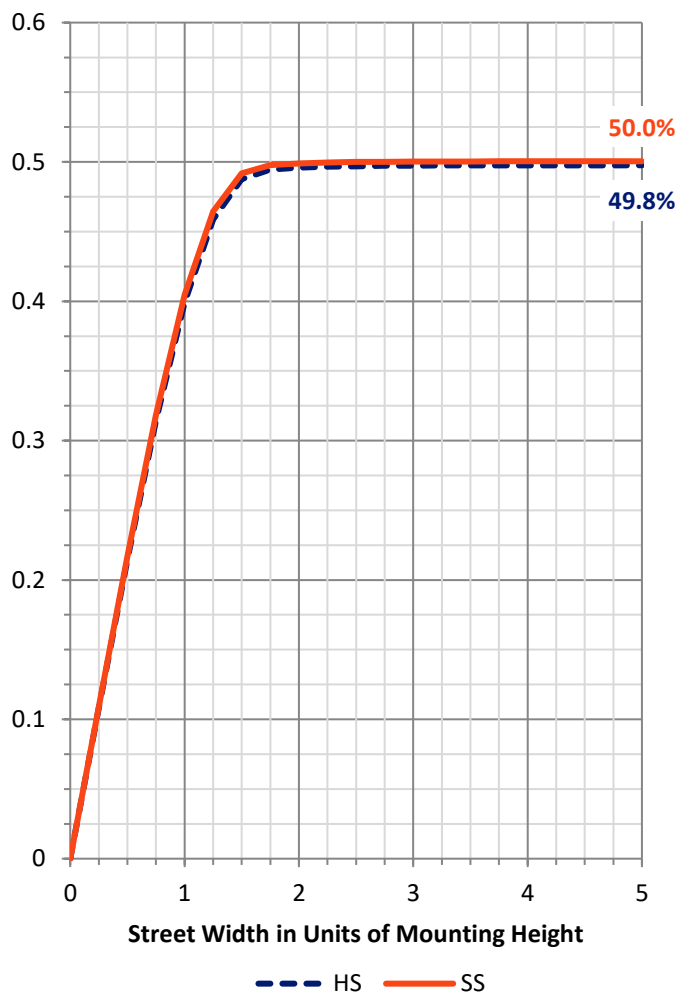
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8758.7	0.0	8758.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8759.2	0.0	8759.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	17517.9	0.0	17517.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.4	1.4
10°-20°	844.4	4.8
20°-30°	1708.3	9.8
30°-40°	3169.6	18.1
40°-50°	5261.3	30.0
50°-60°	5369.4	30.7
60°-70°	880.5	5.0
70°-80°	38.6	0.2
80°-90°	0.5	0.0
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°	17517.9	100.0
0°-180°	17517.9	100.0

Coefficient of Utilization



REPORT NUMBER: P638961

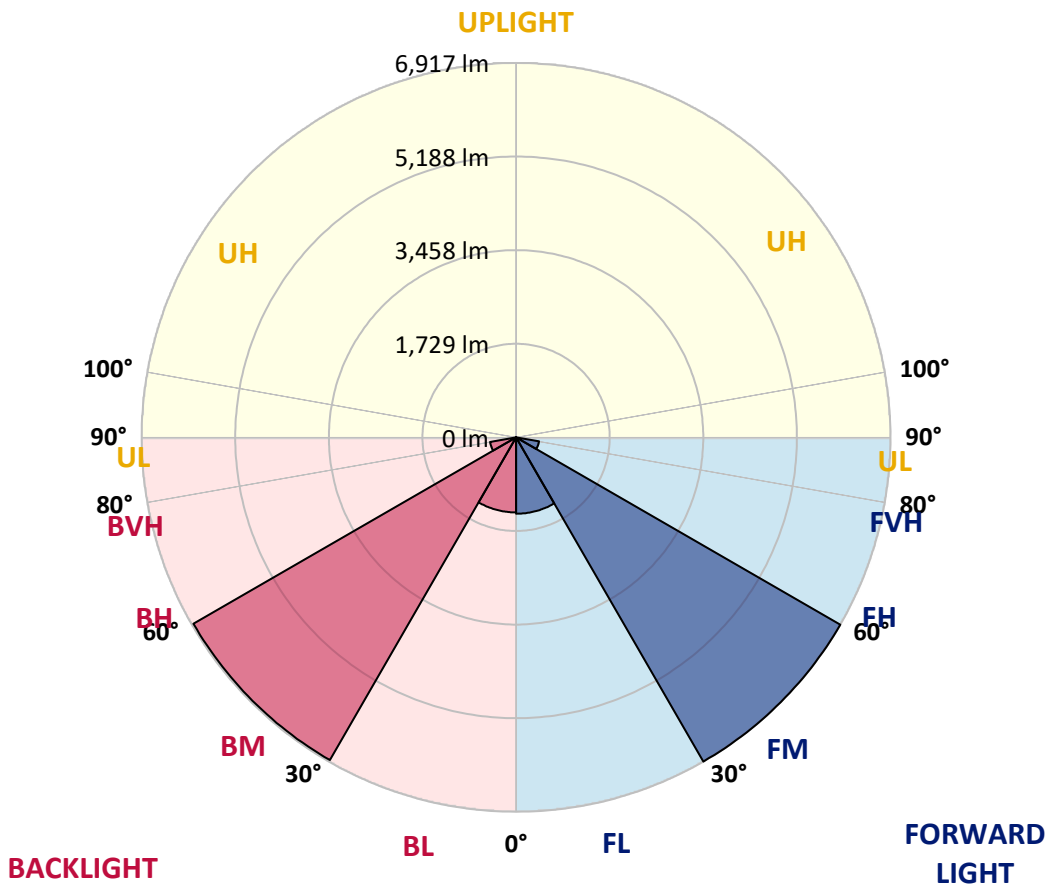
CATALOG NUMBER: GWS-SA4F-830-U-RW-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1411.3	8.1			
FM (30°-60°)	6916.9	39.5			
FH (60°-80°)	430.8	2.5			G0/660
FVH (80°-90°)	0.2	0.0			G0/10
BL (0°-30°)	1386.8	7.9	B3/2500		
BM (30°-60°)	6883.3	39.3	B4/8500		
BH (60°-80°)	488.3	2.8	B1/500		G0/660
BVH (80°-90°)	0.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G0

Type V Short





REPORT NUMBER: P638961

CATALOG NUMBER: GWS-SA4F-830-U-RW-W-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	43°	45°	55°	65°	75°	85°
0°	2491.6	2491.6	2491.6	2491.6	2491.6	2491.6	2491.6	2491.6	2491.6	2491.6	2491.6
2.5°	2445.1	2451.0	2458.7	2466.5	2476.1	2485.8	2491.6	2509.1	2505.2	2520.7	2520.7
5°	2418.0	2423.8	2433.5	2451.0	2472.3	2493.6	2509.1	2544.0	2563.3	2594.3	2606.0
7.5°	2431.6	2439.3	2451.0	2478.1	2511.0	2544.0	2561.4	2617.6	2656.3	2714.5	2747.4
10°	2476.1	2483.9	2503.3	2549.8	2592.4	2638.9	2660.2	2731.9	2793.9	2873.3	2919.8
12.5°	2526.5	2536.2	2575.0	2644.7	2718.3	2780.3	2809.4	2888.8	2952.8	3041.9	3115.5
15°	2578.8	2594.3	2654.4	2757.1	2861.7	2945.0	2976.0	3061.3	3125.2	3220.1	3303.5
17.5°	2700.9	2718.3	2786.1	2896.6	3040.0	3136.8	3164.0	3253.1	3301.5	3365.5	3452.7
20°	2854.0	2886.9	2970.2	3103.9	3260.8	3353.8	3373.2	3460.4	3456.5	3483.7	3559.2
22.5°	3043.8	3067.1	3158.1	3317.0	3493.3	3596.0	3640.6	3677.4	3629.0	3605.7	3654.2
25°	3241.5	3268.6	3367.4	3541.8	3739.4	3857.6	3894.4	3923.5	3846.0	3758.8	3764.6
27.5°	3497.2	3516.6	3613.5	3799.5	3997.1	4130.8	4163.7	4214.1	4111.4	3971.9	3933.2
30°	3801.4	3820.8	3923.5	4119.2	4314.8	4429.2	4479.5	4541.5	4429.2	4254.8	4210.2
32.5°	4157.9	4177.3	4309.0	4510.5	4671.3	4795.3	4843.8	4909.7	4820.5	4624.8	4574.5
35°	4584.2	4595.8	4750.8	4969.7	5140.2	5260.4	5293.3	5370.8	5272.0	5076.3	5049.2
37.5°	5078.2	5091.8	5260.4	5514.2	5688.5	5822.2	5874.5	5895.9	5775.7	5556.8	5535.5
40°	5620.7	5665.3	5830.0	6103.2	6298.9	6467.4	6513.9	6442.2	6273.7	5975.3	5936.5
42.5°	6186.5	6225.2	6409.3	6705.7	6932.4	7104.9	7106.8	6951.8	6665.1	6252.4	6194.2
45°	6657.3	6672.8	6911.1	7209.5	7488.5	7610.6	7622.2	7341.2	6909.2	6413.2	6289.2
47.5°	6980.9	7006.1	7213.4	7500.1	7808.2	7918.6	7895.4	7544.7	7025.4	6517.8	6312.4
50°	6984.7	7027.4	7252.1	7529.2	7827.6	7961.2	7928.3	7602.8	7091.3	6521.7	6256.2
52.5°	6366.7	6436.4	6802.6	7203.7	7660.9	7889.6	7897.3	7678.4	7066.1	6459.7	6205.9
55°	4803.1	4878.7	5339.8	6023.7	6907.2	7544.7	7655.1	7589.2	7037.1	6486.8	6295.0
57.5°	2542.0	2483.9	2739.6	3417.8	4528.0	5655.6	5979.2	6506.2	6713.5	6519.7	6459.7
60°	554.1	590.9	786.6	1059.8	1767.0	2660.2	2976.0	3878.9	4952.3	5428.9	5773.8
62.5°	238.3	234.4	244.1	277.1	404.9	674.3	823.4	1344.6	2121.6	2914.0	3450.7
65°	195.7	197.6	205.4	205.4	191.8	193.8	203.4	308.1	496.0	695.6	933.9
67.5°	147.3	149.2	162.8	166.6	156.9	139.5	137.6	116.3	122.1	153.1	158.9
70°	93.0	93.0	100.8	104.6	104.6	96.9	94.9	83.3	81.4	93.0	104.6
72.5°	50.4	50.4	54.3	56.2	54.3	52.3	52.3	50.4	48.4	56.2	71.7
75°	21.3	21.3	23.3	23.3	21.3	21.3	21.3	21.3	21.3	25.2	38.8
77.5°	3.9	5.8	7.8	5.8	3.9	3.9	3.9	5.8	5.8	7.8	11.6
80°	1.9	1.9	3.9	1.9	0.0	0.0	0.0	0.0	1.9	1.9	1.9
82.5°	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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



REPORT NUMBER: P638961

CATALOG NUMBER: GWS-SA4F-830-U-RW-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2491.6	2491.6	2491.6	2491.6	2491.6	2491.6	2491.6	2491.6	2491.6	2491.6	2491.6
2.5°	2534.3	2513.0	2520.7	2524.6	2518.8	2514.9	2493.6	2487.8	2478.1	2462.6	2458.7
5°	2619.5	2602.1	2600.1	2588.5	2561.4	2528.5	2487.8	2470.3	2451.0	2431.6	2427.7
7.5°	2762.9	2741.6	2728.0	2689.3	2627.3	2575.0	2507.1	2470.3	2445.1	2420.0	2414.1
10°	2947.0	2921.8	2883.0	2811.3	2728.0	2652.5	2573.0	2524.6	2485.8	2451.0	2449.0
12.5°	3142.6	3115.5	3045.8	2954.7	2854.0	2784.2	2683.5	2615.6	2557.5	2505.2	2499.4
15°	3348.0	3315.1	3220.1	3111.6	3018.6	2947.0	2836.5	2728.0	2638.9	2563.3	2555.6
17.5°	3505.0	3464.3	3351.9	3270.5	3195.0	3121.3	2997.3	2854.0	2735.8	2644.7	2623.4
20°	3603.8	3565.0	3458.5	3413.9	3379.0	3326.7	3179.5	3030.3	2898.5	2786.1	2766.8
22.5°	3698.7	3652.2	3559.2	3559.2	3586.3	3565.0	3406.2	3235.6	3080.6	2950.8	2921.8
25°	3805.3	3768.5	3702.6	3756.8	3824.7	3822.7	3660.0	3446.8	3268.6	3123.3	3094.2
27.5°	3960.3	3923.5	3900.2	4002.9	4088.2	4082.3	3904.1	3673.5	3485.6	3342.2	3315.1
30°	4233.5	4198.6	4173.4	4297.4	4405.9	4365.2	4169.5	3946.7	3756.8	3594.1	3574.7
32.5°	4597.7	4560.9	4528.0	4652.0	4748.8	4696.5	4510.5	4301.3	4082.3	3923.5	3884.7
35°	5076.3	4998.8	4965.9	5113.1	5153.8	5095.7	4917.4	4733.3	4500.8	4318.7	4293.5
37.5°	5570.4	5479.3	5456.0	5583.9	5649.8	5628.5	5419.2	5227.4	4975.5	4774.0	4745.0
40°	5992.7	5909.4	5868.7	6068.3	6217.5	6231.0	6043.1	5808.7	5512.2	5303.0	5250.7
42.5°	6240.7	6169.0	6159.4	6469.4	6713.5	6887.9	6663.1	6420.9	6109.0	5872.6	5830.0
45°	6296.9	6250.4	6331.8	6738.7	7118.4	7436.2	7244.4	6988.6	6651.5	6401.5	6360.9
47.5°	6291.1	6275.6	6420.9	6878.2	7358.7	7750.1	7655.1	7366.4	7040.9	6779.4	6740.6
50°	6207.8	6209.7	6451.9	6947.9	7455.6	7835.3	7740.4	7473.0	7182.4	6924.7	6893.7
52.5°	6174.9	6163.2	6393.8	6926.6	7554.4	7796.6	7583.4	7283.1	6959.6	6641.8	6595.3
55°	6291.1	6262.0	6401.5	6909.2	7566.0	7775.2	7213.4	6562.4	5899.7	5523.9	5492.9
57.5°	6465.5	6434.5	6500.4	6781.3	6959.6	6465.5	5308.8	4258.7	3576.7	3288.0	3162.0
60°	5773.8	5752.5	5702.1	5363.0	4599.7	3470.1	2363.8	1507.4	1083.1	875.8	875.8
62.5°	3582.5	3553.4	3280.2	2437.4	1770.9	1024.9	563.8	352.6	267.4	249.9	248.0
65°	1005.6	999.8	827.3	585.1	372.0	230.6	203.4	207.3	203.4	197.6	195.7
67.5°	151.1	166.6	166.6	135.6	129.8	145.3	170.5	182.1	172.4	162.8	158.9
70°	96.9	104.6	100.8	87.2	93.0	108.5	122.1	124.0	118.2	108.5	106.6
72.5°	67.8	75.6	62.0	56.2	58.1	63.9	69.8	69.8	67.8	63.9	60.1
75°	40.7	40.7	29.1	27.1	27.1	29.1	29.1	32.9	32.9	31.0	29.1
77.5°	13.6	15.5	9.7	7.8	7.8	7.8	9.7	11.6	11.6	9.7	7.8
80°	1.9	3.9	1.9	1.9	1.9	1.9	1.9	1.9	3.9	3.9	1.9
82.5°	1.9	1.9	1.9	0.0	0.0	0.0	0.0	1.9	1.9	1.9	1.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	1.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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)