

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: P638466

Luminaire Tested: GWS-SA4E-830-U-RW-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638466
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-SA4E-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: 15756.1 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

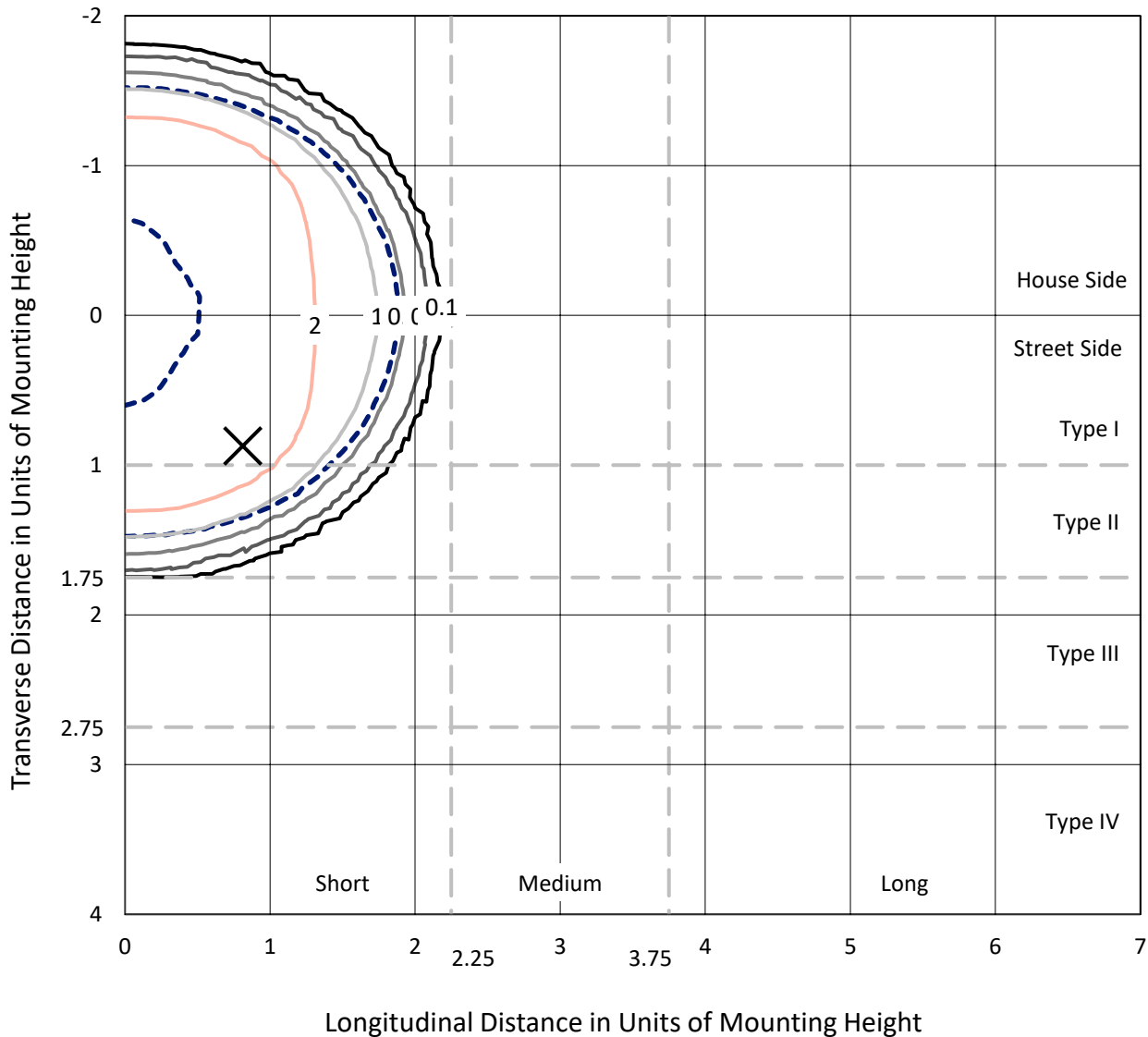
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

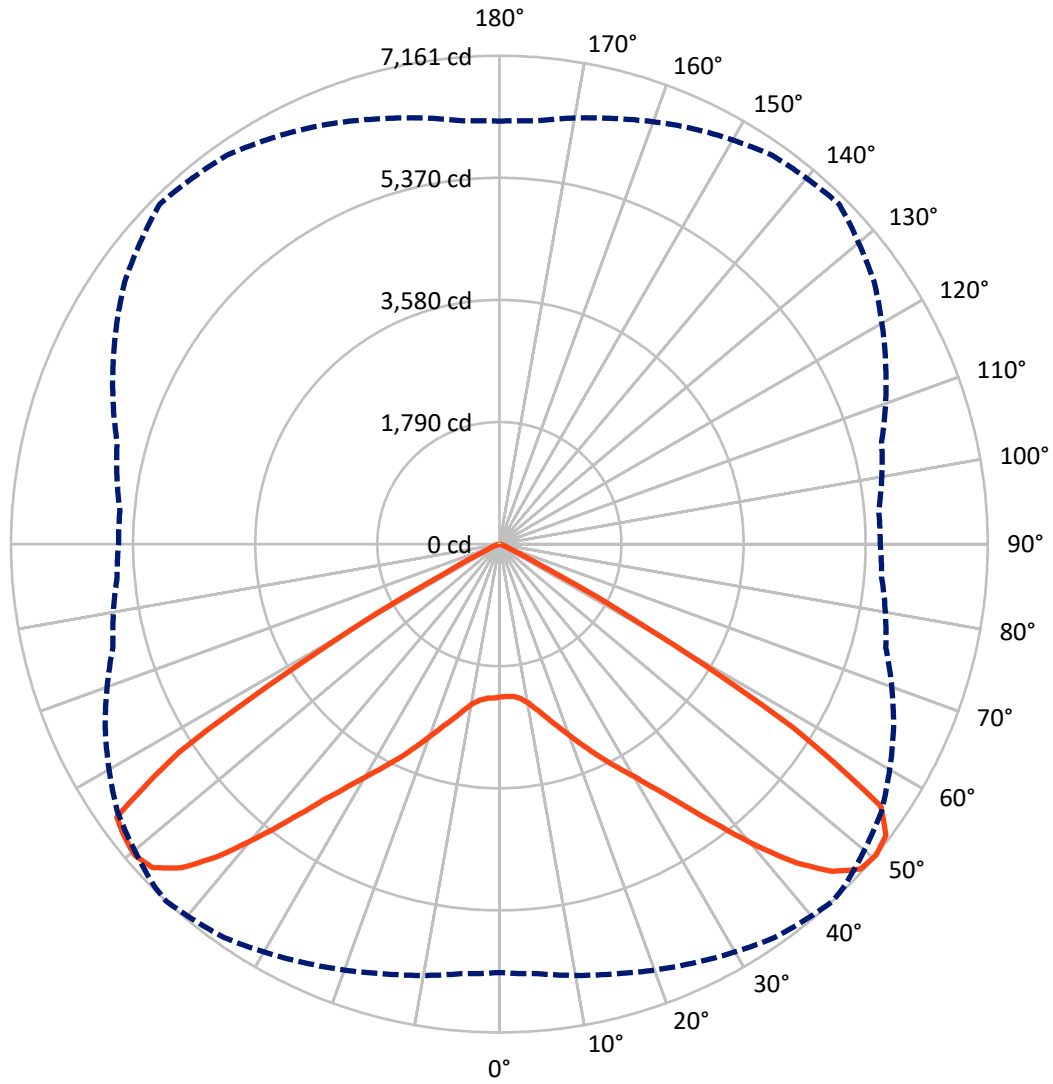
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type V - Short - N/A

REPORT NUMBER: P638466
CATALOG NUMBER: GWS-SA4E-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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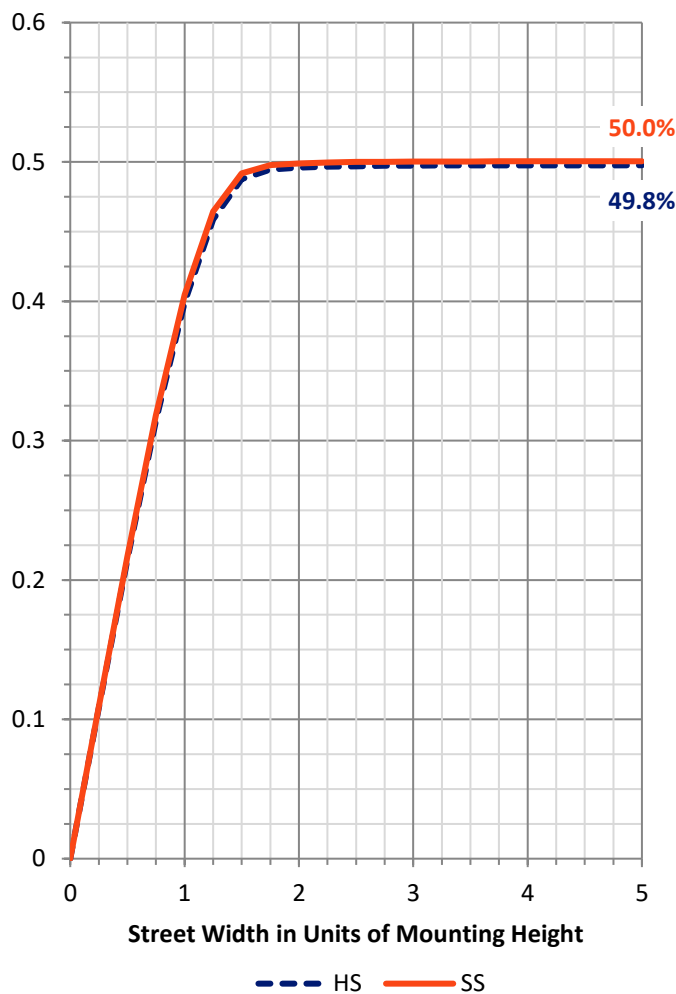
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7877.8	0.0	7877.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7878.2	0.0	7878.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	15756.1	0.0	15756.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.7	1.4
10°-20°	759.5	4.8
20°-30°	1536.5	9.8
30°-40°	2850.8	18.1
40°-50°	4732.2	30.0
50°-60°	4829.4	30.7
60°-70°	792.0	5.0
70°-80°	34.7	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°	15756.1	100.0
0°-180°	15756.1	100.0

Coefficient of Utilization

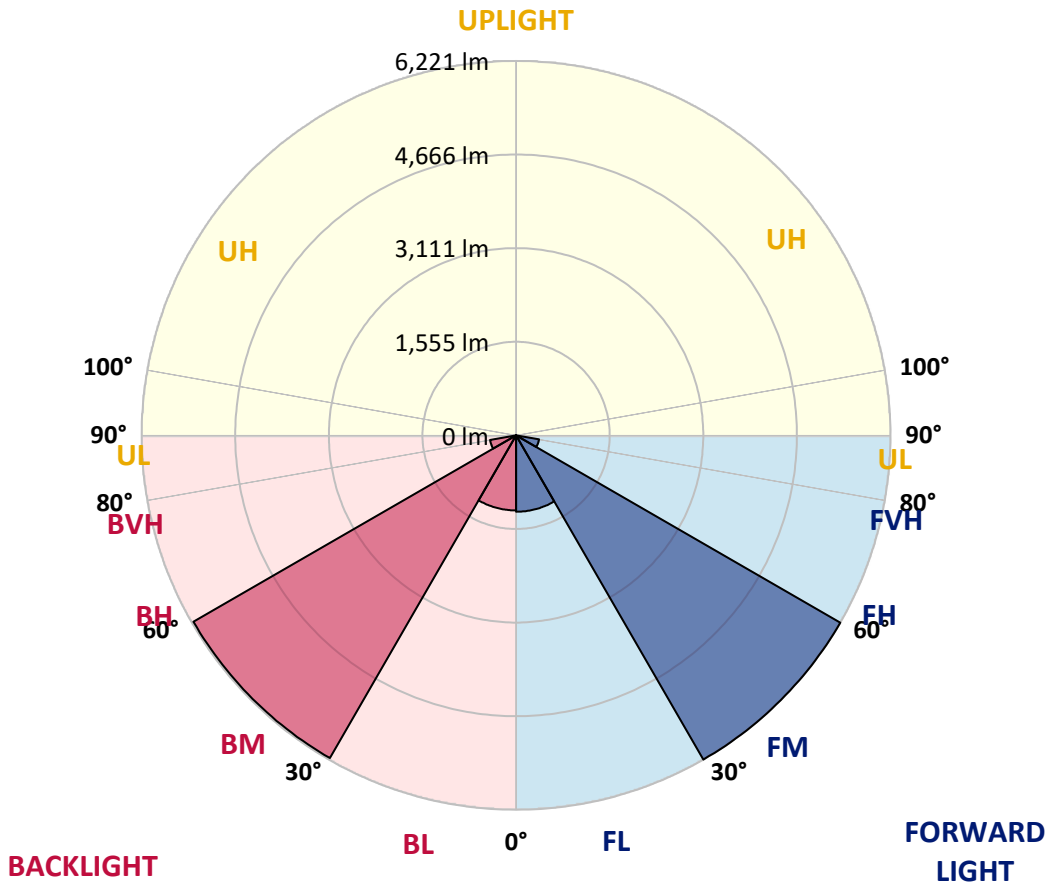


REPORT NUMBER: P638466
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1269.4	8.1			
FM (30°-60°)	6221.3	39.5			
FH (60°-80°)	387.4	2.5			G0/660
FVH (80°-90°)	0.2	0.0			G0/10
BL (0°-30°)	1247.3	7.9	B3/2500		
BM (30°-60°)	6191.0	39.3	B4/8500		
BH (60°-80°)	439.2	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	43°	45°	55°	65°	75°	85°
0°	2241.1	2241.1	2241.1	2241.1	2241.1	2241.1	2241.1	2241.1	2241.1	2241.1	2241.1
2.5°	2199.2	2204.5	2211.4	2218.4	2227.1	2235.8	2241.1	2256.7	2253.3	2267.2	2267.2
5°	2174.8	2180.1	2188.8	2204.5	2223.6	2242.8	2256.7	2288.1	2305.5	2333.4	2343.9
7.5°	2187.0	2194.0	2204.5	2228.9	2258.5	2288.1	2303.8	2354.3	2389.2	2441.5	2471.1
10°	2227.1	2234.1	2251.5	2293.3	2331.7	2373.5	2392.7	2457.1	2512.9	2584.4	2626.2
12.5°	2272.4	2281.1	2316.0	2378.7	2444.9	2500.7	2526.9	2598.3	2655.8	2736.0	2802.2
15°	2319.5	2333.4	2387.4	2479.8	2573.9	2648.8	2676.7	2753.4	2810.9	2896.3	2971.2
17.5°	2429.3	2444.9	2505.9	2605.3	2734.2	2821.4	2845.8	2925.9	2969.5	3027.0	3105.4
20°	2566.9	2596.6	2671.5	2791.7	2932.9	3016.5	3034.0	3112.4	3108.9	3133.3	3201.3
22.5°	2737.7	2758.6	2840.5	2983.4	3142.0	3234.4	3274.5	3307.6	3264.0	3243.1	3286.6
25°	2915.5	2939.9	3028.7	3185.6	3363.3	3469.6	3502.7	3528.9	3459.2	3380.8	3386.0
27.5°	3145.5	3162.9	3250.1	3417.3	3595.1	3715.3	3745.0	3790.3	3697.9	3572.4	3537.6
30°	3419.1	3436.5	3528.9	3704.9	3880.9	3983.7	4029.0	4084.8	3983.7	3826.9	3786.8
32.5°	3739.7	3757.2	3875.7	4056.9	4201.5	4313.1	4356.6	4415.9	4335.7	4159.7	4114.4
35°	4123.1	4133.6	4273.0	4469.9	4623.3	4731.3	4760.9	4830.6	4741.8	4565.8	4541.4
37.5°	4567.5	4579.7	4731.3	4959.6	5116.4	5236.7	5283.7	5302.9	5194.9	4997.9	4978.8
40°	5055.4	5095.5	5243.7	5489.4	5665.4	5817.0	5858.8	5794.3	5642.7	5374.4	5339.5
42.5°	5564.3	5599.2	5764.7	6031.3	6235.2	6390.3	6392.1	6252.7	5994.7	5623.6	5571.3
45°	5987.8	6001.7	6216.1	6484.4	6735.4	6845.2	6855.6	6602.9	6214.3	5768.2	5656.7
47.5°	6278.8	6301.4	6487.9	6745.8	7022.9	7122.2	7101.3	6785.9	6318.9	5862.3	5677.6
50°	6282.3	6320.6	6522.8	6772.0	7040.3	7160.6	7130.9	6838.2	6378.1	5865.8	5627.0
52.5°	5726.4	5789.1	6118.5	6479.2	6890.5	7096.1	7103.1	6906.1	6355.5	5810.0	5581.7
55°	4320.0	4388.0	4802.8	5417.9	6212.6	6785.9	6885.2	6826.0	6329.3	5834.4	5661.9
57.5°	2286.4	2234.1	2464.1	3074.0	4072.6	5086.8	5377.8	5851.8	6038.3	5864.0	5810.0
60°	498.4	531.5	707.5	953.2	1589.3	2392.7	2676.7	3488.8	4454.2	4882.9	5193.1
62.5°	214.3	210.9	219.6	249.2	364.2	606.4	740.6	1209.4	1908.2	2621.0	3103.7
65°	176.0	177.8	184.7	184.7	172.5	174.3	183.0	277.1	446.1	625.6	840.0
67.5°	132.4	134.2	146.4	149.9	141.2	125.5	123.7	104.6	109.8	137.7	142.9
70°	83.6	83.6	90.6	94.1	94.1	87.1	85.4	74.9	73.2	83.6	94.1
72.5°	45.3	45.3	48.8	50.5	48.8	47.1	47.1	45.3	43.6	50.5	64.5
75°	19.2	19.2	20.9	20.9	19.2	19.2	19.2	19.2	19.2	22.7	34.9
77.5°	3.5	5.2	7.0	5.2	3.5	3.5	3.5	5.2	5.2	7.0	10.5
80°	1.7	1.7	3.5	1.7	0.0	0.0	0.0	0.0	1.7	1.7	1.7
82.5°	1.7	1.7	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7
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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2241.1	2241.1	2241.1	2241.1	2241.1	2241.1	2241.1	2241.1	2241.1	2241.1	2241.1
2.5°	2279.4	2260.2	2267.2	2270.7	2265.5	2262.0	2242.8	2237.6	2228.9	2214.9	2211.4
5°	2356.1	2340.4	2338.6	2328.2	2303.8	2274.2	2237.6	2221.9	2204.5	2187.0	2183.5
7.5°	2485.0	2465.9	2453.7	2418.8	2363.0	2316.0	2255.0	2221.9	2199.2	2176.6	2171.3
10°	2650.6	2627.9	2593.1	2528.6	2453.7	2385.7	2314.2	2270.7	2235.8	2204.5	2202.7
12.5°	2826.6	2802.2	2739.5	2657.6	2566.9	2504.2	2413.6	2352.6	2300.3	2253.3	2248.0
15°	3011.3	2981.7	2896.3	2798.7	2715.1	2650.6	2551.2	2453.7	2373.5	2305.5	2298.6
17.5°	3152.5	3115.9	3014.8	2941.6	2873.6	2807.4	2695.9	2566.9	2460.6	2378.7	2359.6
20°	3241.3	3206.5	3110.6	3070.6	3039.2	2992.1	2859.7	2725.5	2607.0	2505.9	2488.5
22.5°	3326.7	3284.9	3201.3	3201.3	3225.7	3206.5	3063.6	2910.2	2770.8	2654.1	2627.9
25°	3422.6	3389.5	3330.2	3379.0	3440.0	3438.3	3291.9	3100.2	2939.9	2809.2	2783.0
27.5°	3562.0	3528.9	3508.0	3600.3	3677.0	3671.8	3511.5	3304.1	3135.0	3006.1	2981.7
30°	3807.7	3776.3	3753.7	3865.2	3962.8	3926.2	3750.2	3549.8	3379.0	3232.6	3215.2
32.5°	4135.3	4102.2	4072.6	4184.1	4271.3	4224.2	4056.9	3868.7	3671.8	3528.9	3494.0
35°	4565.8	4496.1	4466.4	4598.9	4635.5	4583.2	4422.9	4257.3	4048.2	3884.4	3861.7
37.5°	5010.1	4928.2	4907.3	5022.3	5081.6	5062.4	4874.2	4701.7	4475.1	4293.9	4267.8
40°	5390.0	5315.1	5278.5	5458.0	5592.2	5604.4	5435.3	5224.5	4957.9	4769.7	4722.6
42.5°	5613.1	5548.6	5539.9	5818.7	6038.3	6195.1	5993.0	5775.2	5494.6	5282.0	5243.7
45°	5663.6	5621.8	5695.0	6061.0	6402.5	6688.3	6515.8	6285.8	5982.5	5757.7	5721.1
47.5°	5658.4	5644.5	5775.2	6186.4	6618.6	6970.6	6885.2	6625.6	6332.8	6097.6	6062.7
50°	5583.5	5585.2	5803.0	6249.2	6705.7	7047.3	6961.9	6721.4	6460.0	6228.3	6200.4
52.5°	5553.8	5543.4	5750.8	6230.0	6794.6	7012.4	6820.8	6550.6	6259.6	5973.8	5932.0
55°	5658.4	5632.3	5757.7	6214.3	6805.1	6993.3	6487.9	5902.4	5306.4	4968.3	4940.4
57.5°	5815.2	5787.4	5846.6	6099.3	6259.6	5815.2	4774.9	3830.4	3216.9	2957.3	2844.0
60°	5193.1	5173.9	5128.6	4823.7	4137.1	3121.1	2126.0	1355.8	974.1	787.7	787.7
62.5°	3222.2	3196.0	2950.3	2192.3	1592.8	921.9	507.1	317.2	240.5	224.8	223.1
65°	904.4	899.2	744.1	526.3	334.6	207.4	183.0	186.5	183.0	177.8	176.0
67.5°	135.9	149.9	149.9	122.0	116.8	130.7	153.4	163.8	155.1	146.4	142.9
70°	87.1	94.1	90.6	78.4	83.6	97.6	109.8	111.5	106.3	97.6	95.8
72.5°	61.0	68.0	55.8	50.5	52.3	57.5	62.7	62.7	61.0	57.5	54.0
75°	36.6	36.6	26.1	24.4	24.4	26.1	26.1	29.6	29.6	27.9	26.1
77.5°	12.2	13.9	8.7	7.0	7.0	7.0	8.7	10.5	10.5	8.7	7.0
80°	1.7	3.5	1.7	1.7	1.7	1.7	1.7	1.7	3.5	3.5	1.7
82.5°	1.7	1.7	1.7	0.0	0.0	0.0	0.0	1.7	1.7	1.7	1.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7
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)