

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: P637861

Luminaire Tested: GWS-SA4D-760-U-RW-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637861
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-SA4D-760-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) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16013.1 lumens
Efficiency: N/A
Efficacy: 98.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G0

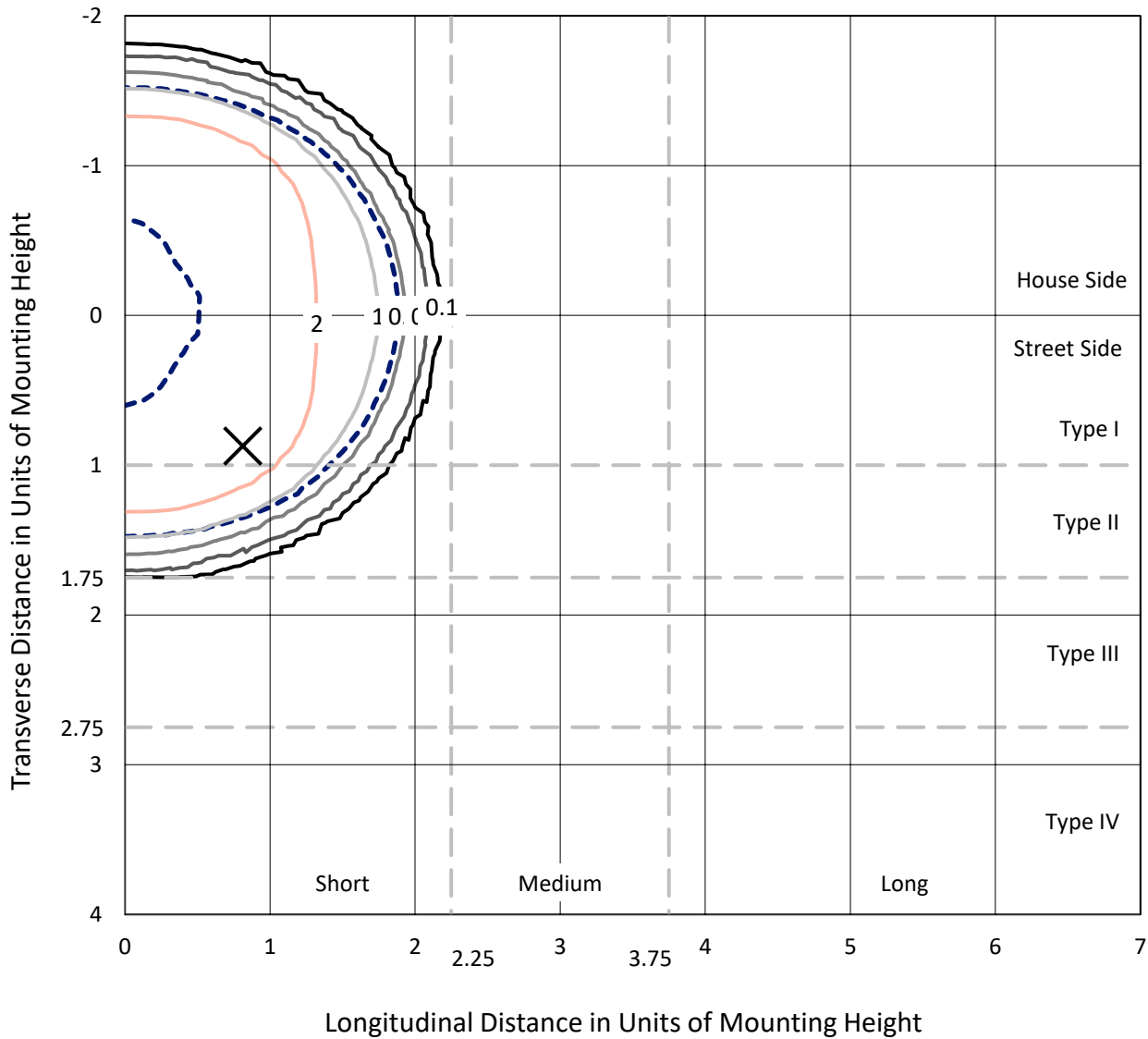
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

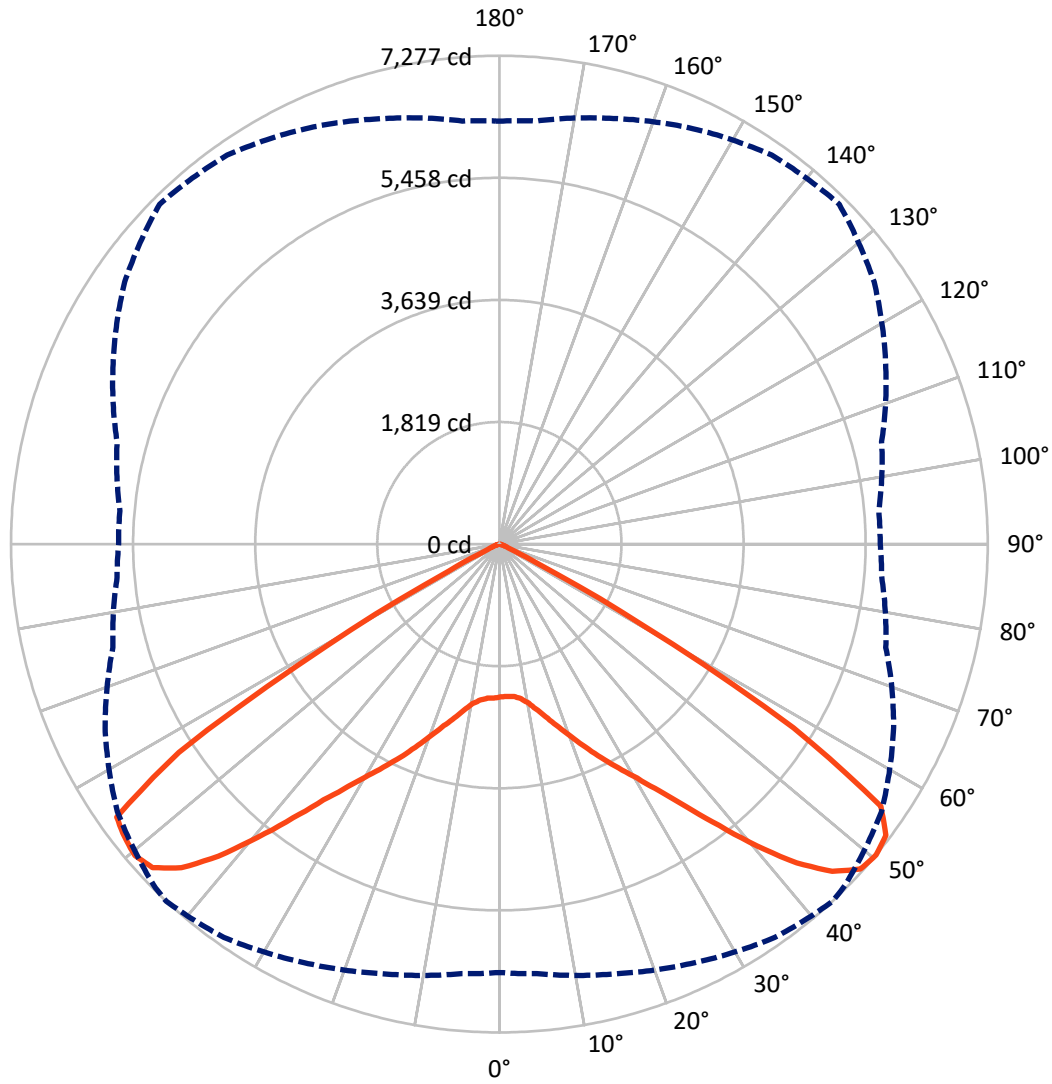
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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

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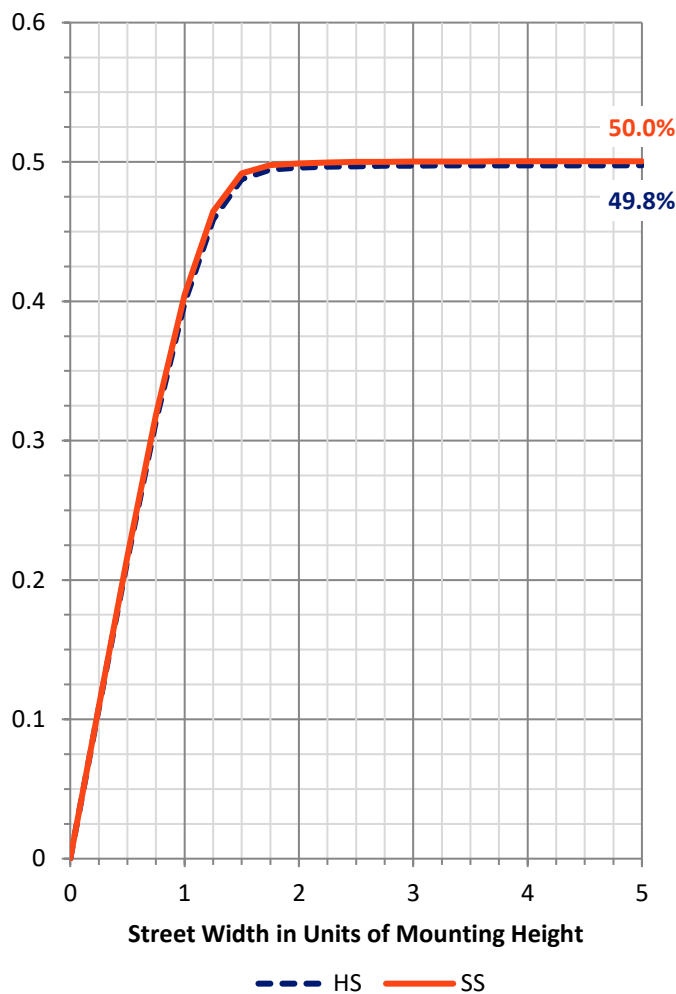
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8006.4	0.0	8006.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8006.8	0.0	8006.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	16013.1	0.0	16013.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.3	1.4
10°-20°	771.9	4.8
20°-30°	1561.6	9.8
30°-40°	2897.3	18.1
40°-50°	4809.3	30.0
50°-60°	4908.1	30.7
60°-70°	804.9	5.0
70°-80°	35.2	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°	16013.1	100.0
0°-180°	16013.1	100.0

Coefficient of Utilization



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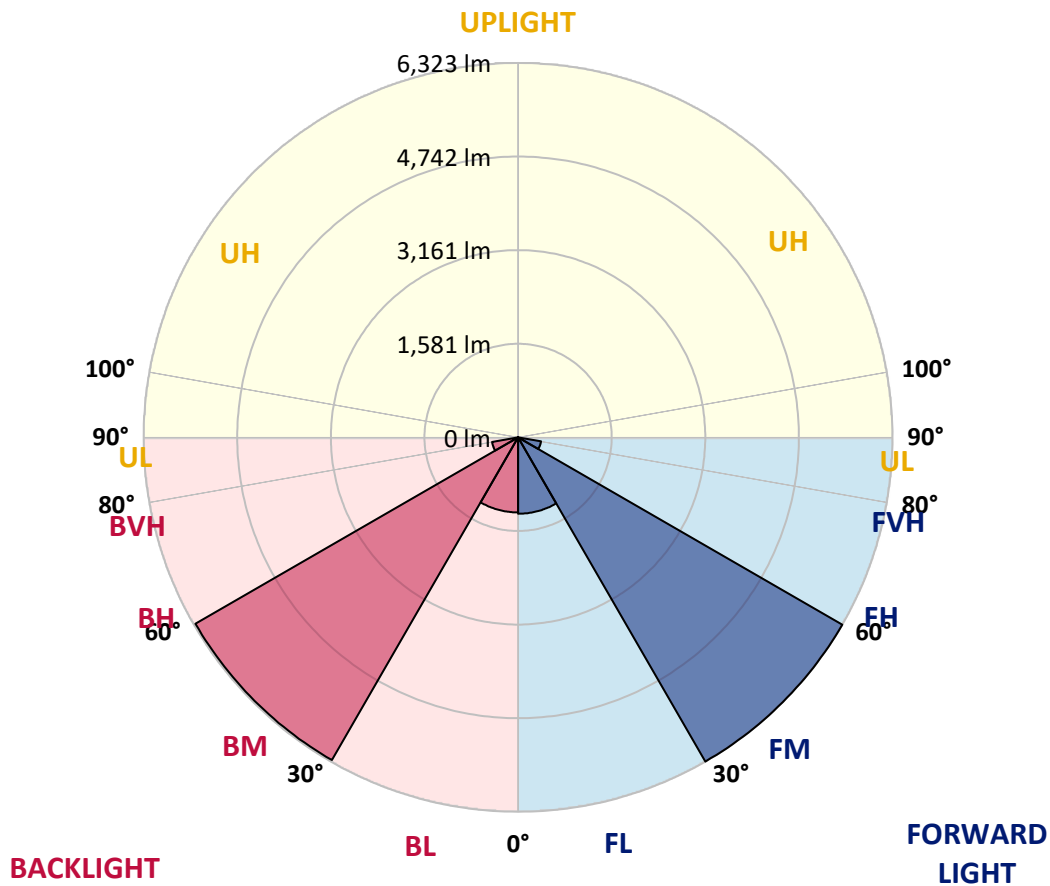
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1290.1	8.1			
FM (30°-60°)	6322.7	39.5			
FH (60°-80°)	393.8	2.5			G0/660
FVH (80°-90°)	0.2	0.0			G0/10
BL (0°-30°)	1267.7	7.9	B3/2500		
BM (30°-60°)	6292.0	39.3	B4/8500		
BH (60°-80°)	446.4	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°	2277.6	2277.6	2277.6	2277.6	2277.6	2277.6	2277.6	2277.6	2277.6	2277.6	2277.6
2.5°	2235.1	2240.4	2247.5	2254.6	2263.4	2272.3	2277.6	2293.5	2290.0	2304.2	2304.2
5°	2210.3	2215.6	2224.5	2240.4	2259.9	2279.4	2293.5	2325.4	2343.1	2371.5	2382.1
7.5°	2222.7	2229.8	2240.4	2265.2	2295.3	2325.4	2341.4	2392.7	2428.2	2481.3	2511.4
10°	2263.4	2270.5	2288.2	2330.7	2369.7	2412.2	2431.7	2497.2	2553.9	2626.5	2669.0
12.5°	2309.5	2318.3	2353.8	2417.5	2484.8	2541.5	2568.1	2640.7	2699.1	2780.6	2847.9
15°	2357.3	2371.5	2426.4	2520.2	2615.9	2692.0	2720.4	2798.3	2856.8	2943.5	3019.7
17.5°	2468.9	2484.8	2546.8	2647.8	2778.8	2867.4	2892.2	2973.6	3017.9	3076.4	3156.1
20°	2608.8	2638.9	2715.1	2837.3	2980.7	3065.7	3083.5	3163.2	3159.6	3184.4	3253.5
22.5°	2782.4	2803.6	2886.9	3032.1	3193.3	3287.1	3327.9	3361.5	3317.2	3296.0	3340.3
25°	2963.0	2987.8	3078.1	3237.5	3418.2	3526.2	3559.9	3586.4	3515.6	3435.9	3441.2
27.5°	3196.8	3214.5	3303.1	3473.1	3653.7	3775.9	3806.1	3852.1	3758.2	3630.7	3595.3
30°	3474.9	3492.6	3586.4	3765.3	3944.2	4048.7	4094.7	4151.4	4048.7	3889.3	3848.6
32.5°	3800.7	3818.5	3938.9	4123.1	4270.1	4383.4	4427.7	4487.9	4406.4	4227.6	4181.5
35°	4190.4	4201.0	4342.7	4542.8	4698.7	4808.5	4838.6	4909.4	4819.1	4640.2	4615.4
37.5°	4642.0	4654.4	4808.5	5040.5	5199.9	5322.1	5369.9	5389.4	5279.6	5079.5	5060.0
40°	5137.9	5178.6	5329.2	5578.9	5757.8	5911.9	5954.4	5888.8	5734.8	5462.0	5426.6
42.5°	5655.1	5690.5	5858.7	6129.7	6336.9	6494.6	6496.3	6354.6	6092.5	5715.3	5662.1
45°	6085.4	6099.6	6317.4	6590.2	6845.2	6956.8	6967.4	6710.6	6315.7	5862.3	5748.9
47.5°	6381.2	6404.2	6593.7	6855.9	7137.5	7238.4	7217.2	6896.6	6421.9	5957.9	5770.2
50°	6384.7	6423.7	6629.2	6882.4	7155.2	7277.4	7247.3	6949.7	6482.2	5961.5	5718.8
52.5°	5819.8	5883.5	6218.3	6584.9	7002.9	7211.8	7218.9	7018.8	6459.1	5904.8	5672.8
55°	4390.5	4459.6	4881.1	5506.3	6313.9	6896.6	6997.5	6937.3	6432.6	5929.6	5754.2
57.5°	2323.7	2270.5	2504.3	3124.2	4139.0	5169.8	5465.6	5947.3	6136.8	5959.7	5904.8
60°	506.5	540.2	719.1	968.8	1615.2	2431.7	2720.4	3545.7	4526.9	4962.6	5277.8
62.5°	217.8	214.3	223.2	253.3	370.2	616.3	752.7	1229.1	1939.3	2663.7	3154.3
65°	178.9	180.7	187.7	187.7	175.3	177.1	186.0	281.6	453.4	635.8	853.7
67.5°	134.6	136.4	148.8	152.3	143.5	127.5	125.7	106.3	111.6	139.9	145.2
70°	85.0	85.0	92.1	95.6	95.6	88.6	86.8	76.2	74.4	85.0	95.6
72.5°	46.0	46.0	49.6	51.4	49.6	47.8	47.8	46.0	44.3	51.4	65.5
75°	19.5	19.5	21.3	21.3	19.5	19.5	19.5	19.5	19.5	23.0	35.4
77.5°	3.5	5.3	7.1	5.3	3.5	3.5	3.5	5.3	5.3	7.1	10.6
80°	1.8	1.8	3.5	1.8	0.0	0.0	0.0	0.0	1.8	1.8	1.8
82.5°	1.8	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8
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°	2277.6	2277.6	2277.6	2277.6	2277.6	2277.6	2277.6	2277.6	2277.6	2277.6	2277.6
2.5°	2316.6	2297.1	2304.2	2307.7	2302.4	2298.9	2279.4	2274.1	2265.2	2251.0	2247.5
5°	2394.5	2378.6	2376.8	2366.2	2341.4	2311.3	2274.1	2258.1	2240.4	2222.7	2219.2
7.5°	2525.6	2506.1	2493.7	2458.3	2401.6	2353.8	2291.8	2258.1	2235.1	2212.1	2206.8
10°	2693.8	2670.8	2635.4	2569.8	2493.7	2424.6	2352.0	2307.7	2272.3	2240.4	2238.6
12.5°	2872.7	2847.9	2784.1	2700.9	2608.8	2545.0	2452.9	2391.0	2337.8	2290.0	2284.7
15°	3060.4	3030.3	2943.5	2844.4	2759.3	2693.8	2592.9	2493.7	2412.2	2343.1	2336.1
17.5°	3203.9	3166.7	3064.0	2989.6	2920.5	2853.2	2739.9	2608.8	2500.8	2417.5	2398.0
20°	3294.2	3258.8	3161.4	3120.6	3088.8	3040.9	2906.3	2770.0	2649.5	2546.8	2529.1
22.5°	3381.0	3338.5	3253.5	3253.5	3278.3	3258.8	3113.6	2957.7	2816.0	2697.4	2670.8
25°	3478.4	3444.8	3384.5	3434.1	3496.1	3494.3	3345.6	3150.8	2987.8	2855.0	2828.4
27.5°	3620.1	3586.4	3565.2	3659.1	3737.0	3731.7	3568.7	3358.0	3186.2	3055.1	3030.3
30°	3869.8	3837.9	3814.9	3928.3	4027.4	3990.2	3811.4	3607.7	3434.1	3285.4	3267.6
32.5°	4202.8	4169.1	4139.0	4252.4	4340.9	4293.1	4123.1	3931.8	3731.7	3586.4	3551.0
35°	4640.2	4569.4	4539.3	4673.9	4711.1	4657.9	4495.0	4326.8	4114.2	3947.7	3924.7
37.5°	5091.9	5008.6	4987.4	5104.3	5164.5	5145.0	4953.7	4778.4	4548.1	4363.9	4337.4
40°	5478.0	5401.8	5364.6	5547.0	5683.4	5695.8	5524.0	5309.7	5038.7	4847.4	4799.6
42.5°	5704.7	5639.1	5630.3	5913.6	6136.8	6296.2	6090.7	5869.4	5584.2	5368.1	5329.2
45°	5756.0	5713.5	5787.9	6159.8	6507.0	6797.4	6622.1	6388.3	6080.1	5851.7	5814.5
47.5°	5750.7	5736.5	5869.4	6287.3	6726.6	7084.3	6997.5	6733.7	6436.1	6197.0	6161.6
50°	5674.5	5676.3	5897.7	6351.1	6815.1	7162.3	7075.5	6831.1	6565.4	6329.8	6301.5
52.5°	5644.4	5633.8	5844.6	6331.6	6905.4	7126.8	6932.0	6657.5	6361.7	6071.3	6028.8
55°	5750.7	5724.1	5851.7	6315.7	6916.1	7107.3	6593.7	5998.7	5392.9	5049.4	5021.0
57.5°	5910.1	5881.8	5942.0	6198.8	6361.7	5910.1	4852.8	3892.8	3269.4	3005.5	2890.4
60°	5277.8	5258.3	5212.3	4902.4	4204.5	3172.0	2160.7	1377.9	990.0	800.5	800.5
62.5°	3274.7	3248.2	2998.4	2228.0	1618.8	936.9	515.4	322.3	244.4	228.5	226.7
65°	919.2	913.9	756.3	534.9	340.0	210.8	186.0	189.5	186.0	180.7	178.9
67.5°	138.1	152.3	152.3	124.0	118.7	132.8	155.9	166.5	157.6	148.8	145.2
70°	88.6	95.6	92.1	79.7	85.0	99.2	111.6	113.3	108.0	99.2	97.4
72.5°	62.0	69.1	56.7	51.4	53.1	58.4	63.8	63.8	62.0	58.4	54.9
75°	37.2	37.2	26.6	24.8	24.8	26.6	26.6	30.1	30.1	28.3	26.6
77.5°	12.4	14.2	8.9	7.1	7.1	7.1	8.9	10.6	10.6	8.9	7.1
80°	1.8	3.5	1.8	1.8	1.8	1.8	1.8	1.8	3.5	3.5	1.8
82.5°	1.8	1.8	1.8	0.0	0.0	0.0	0.0	1.8	1.8	1.8	1.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8
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)