

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: P637972

Luminaire Tested: GWS-SA4D-830-U-RW-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637972
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-SA4D-830-U-RW-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17149.2 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

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

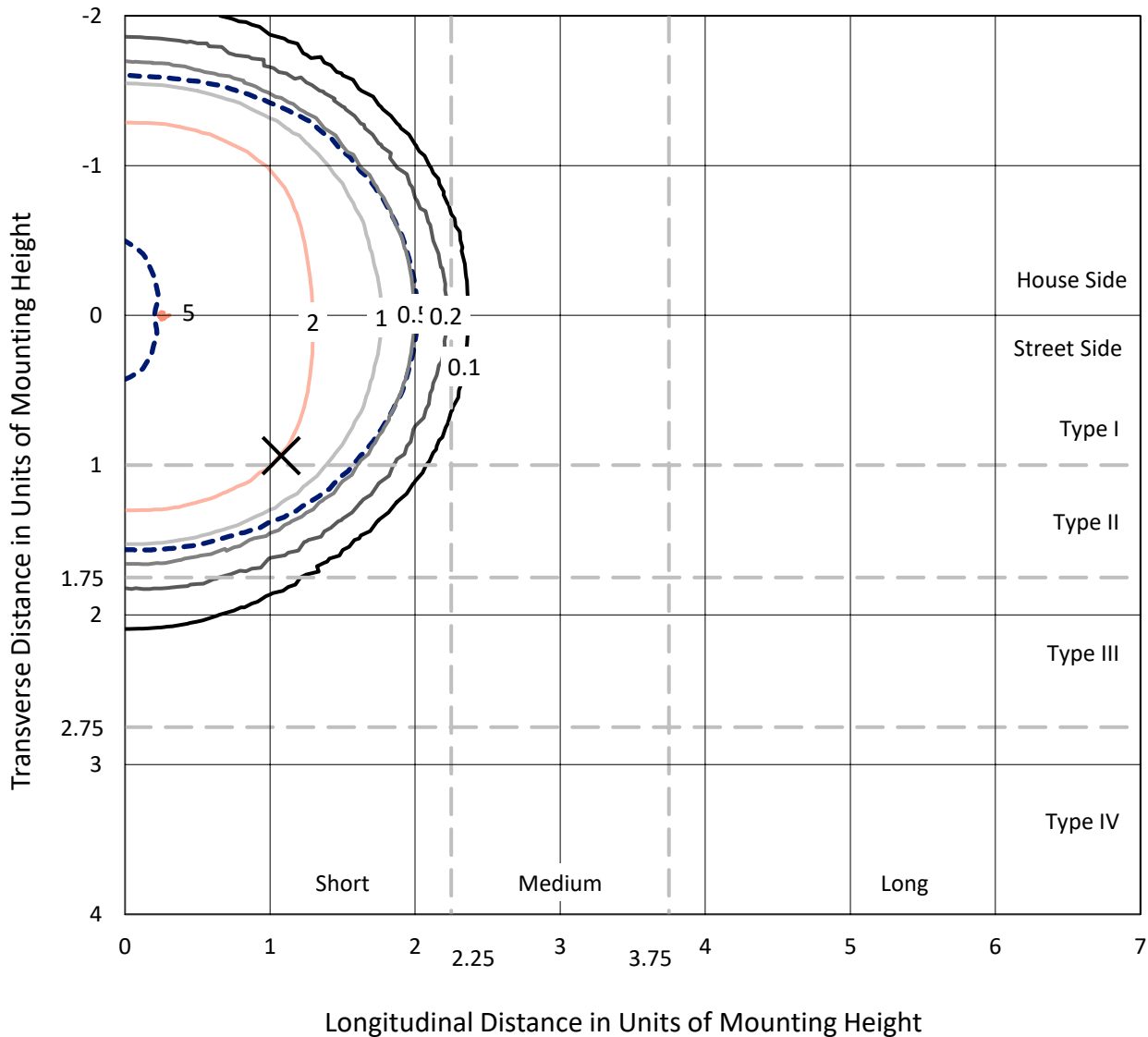


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Iso-Footcandle Lines of Horizontal Illumination

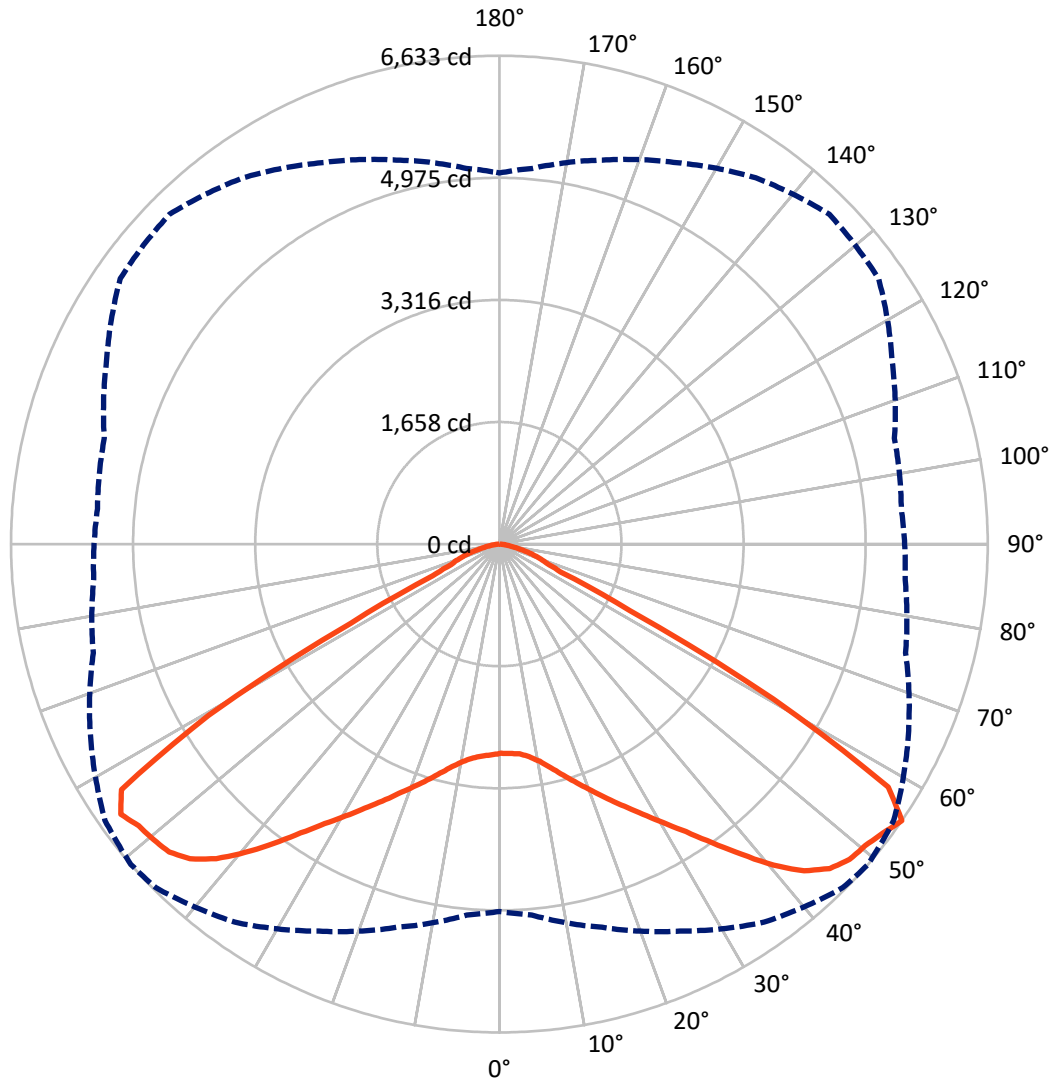
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 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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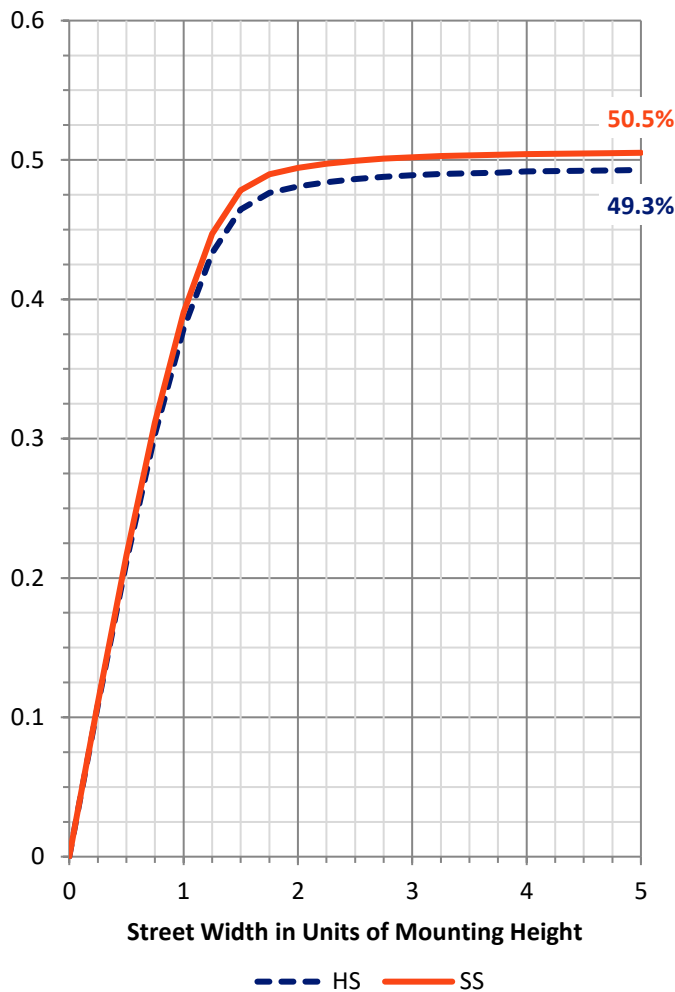
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8490.5	0.0	8490.5
	% Fixture	49.5	0.0	49.5
Street Side	Lumens	8658.7	0.0	8658.7
	% Fixture	50.5	0.0	50.5
Total	Lumens	17149.2	0.0	17149.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.1	1.6
10°-20°	914.1	5.3
20°-30°	1741.1	10.2
30°-40°	2951.5	17.2
40°-50°	4441.8	25.9
50°-60°	4861.9	28.4
60°-70°	1537.4	9.0
70°-80°	369.0	2.2
80°-90°	55.4	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°	17149.2	100.0
0°-180°	17149.2	100.0

Coefficient of Utilization



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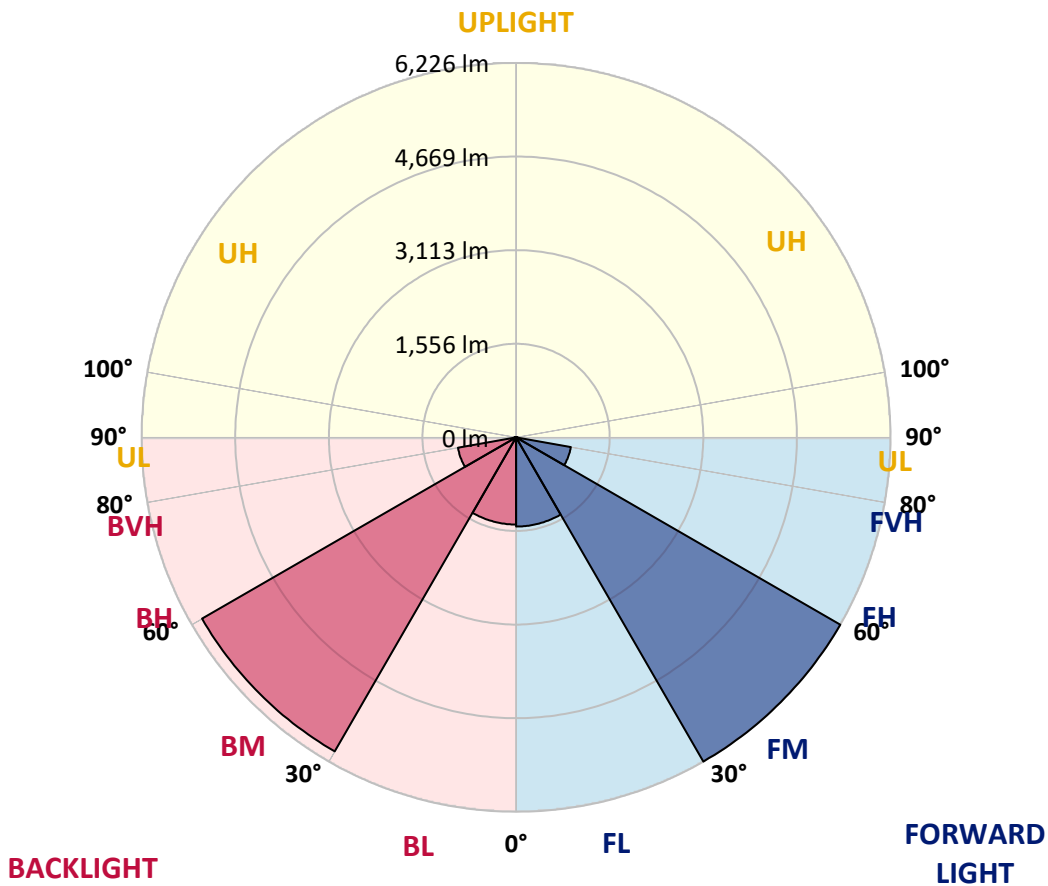
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1482.7	8.6			
FM (30°-60°)	6225.6	36.3			
FH (60°-80°)	924.7	5.4			G1/1800
FVH (80°-90°)	25.6	0.1			G1/100
BL (0°-30°)	1449.6	8.5	B3/2500		
BM (30°-60°)	6029.6	35.2	B4/8500		
BH (60°-80°)	981.6	5.7	B2/1000		G1/1800
BVH (80°-90°)	29.7	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°	2840.9	2840.9	2840.9	2840.9	2840.9	2840.9	2840.9	2840.9	2840.9	2840.9	2840.9
2.5°	2799.0	2801.8	2807.4	2817.2	2826.9	2840.9	2846.4	2853.4	2852.0	2860.4	2860.4
5°	2785.1	2789.3	2797.6	2811.6	2828.3	2854.8	2861.8	2878.5	2895.3	2916.2	2923.2
7.5°	2801.8	2807.4	2817.2	2839.5	2864.6	2899.4	2913.4	2941.3	2973.4	3011.0	3026.4
10°	2833.9	2840.9	2857.6	2893.9	2934.3	2987.3	2999.9	3034.7	3086.3	3137.9	3168.6
12.5°	2870.2	2881.3	2912.0	2969.2	3029.1	3098.9	3118.4	3161.6	3217.4	3284.4	3326.2
15°	2912.0	2921.8	2969.2	3050.1	3143.5	3235.6	3257.9	3299.7	3362.5	3428.0	3486.6
17.5°	2999.9	3016.6	3072.4	3165.8	3274.6	3383.4	3408.5	3455.9	3506.1	3557.7	3613.5
20°	3119.8	3133.7	3204.9	3320.6	3448.9	3547.9	3573.1	3614.9	3638.6	3665.1	3712.5
22.5°	3239.7	3259.3	3340.1	3476.8	3627.4	3734.8	3754.4	3793.4	3776.7	3768.3	3799.0
25°	3389.0	3415.5	3495.0	3644.2	3797.6	3930.1	3945.4	3978.9	3951.0	3907.8	3906.4
27.5°	3574.4	3598.2	3680.4	3833.8	3985.9	4123.9	4153.2	4197.8	4136.5	4083.5	4045.8
30°	3794.8	3810.1	3900.8	4064.0	4220.2	4351.3	4388.9	4433.5	4387.5	4299.7	4262.0
32.5°	4051.4	4072.3	4176.9	4348.5	4487.9	4619.0	4656.7	4712.5	4662.3	4563.2	4515.8
35°	4359.6	4380.5	4490.7	4677.6	4819.9	4955.1	4981.6	5027.7	4964.9	4850.5	4812.9
37.5°	4694.3	4720.8	4860.3	5037.4	5186.6	5344.2	5345.6	5359.6	5270.3	5128.1	5086.2
40°	5070.9	5105.8	5245.2	5429.3	5609.2	5737.5	5736.1	5697.1	5546.5	5326.1	5262.0
42.5°	5443.3	5471.1	5612.0	5801.7	5981.6	6102.9	6066.7	5971.8	5754.3	5454.4	5369.3
45°	5712.4	5733.3	5881.2	6094.5	6277.2	6352.6	6287.0	6172.6	5878.4	5535.3	5409.8
47.5°	5839.3	5867.2	6016.5	6228.4	6434.8	6478.1	6400.0	6292.6	5950.9	5610.6	5441.9
50°	5771.0	5807.3	5976.0	6172.6	6405.6	6494.8	6439.0	6331.6	6027.6	5684.5	5499.0
52.5°	5593.9	5628.7	5842.1	6080.6	6344.2	6521.3	6519.9	6432.1	6115.5	5705.4	5501.8
55°	4988.6	5056.9	5388.9	5800.3	6268.9	6599.4	6632.9	6539.4	6129.4	5711.0	5531.1
57.5°	3246.7	3366.6	3681.8	4217.4	5157.4	6002.5	6228.4	6250.7	6029.0	5687.3	5536.7
60°	1355.6	1451.8	1701.5	2057.1	2833.9	3839.4	4277.3	4716.7	5246.6	5439.1	5485.1
62.5°	842.4	850.7	875.8	956.7	1216.1	1707.0	1988.7	2400.2	3188.1	3859.0	4168.6
65°	760.1	764.3	769.8	764.3	776.8	836.8	912.1	1055.7	1376.5	1709.8	2105.9
67.5°	669.4	675.0	679.2	675.0	679.2	682.0	690.3	702.9	761.5	808.9	845.1
70°	541.1	549.5	556.5	553.7	570.4	570.4	578.8	588.5	617.8	652.7	677.8
72.5°	412.8	405.8	414.2	417.0	432.3	440.7	453.3	464.4	497.9	518.8	550.9
75°	267.8	260.8	273.3	280.3	301.2	312.4	323.6	334.7	358.4	372.4	403.0
77.5°	145.0	143.6	156.2	166.0	188.3	202.2	210.6	219.0	238.5	242.7	262.2
80°	83.7	83.7	92.0	99.0	113.0	128.3	136.7	143.6	157.6	161.8	170.1
82.5°	46.0	46.0	50.2	54.4	65.5	73.9	80.9	86.5	99.0	103.2	107.4
85°	22.3	20.9	23.7	26.5	30.7	34.9	39.0	41.8	51.6	54.4	60.0
87.5°	2.8	2.8	2.8	4.2	5.6	8.4	9.8	9.8	15.3	18.1	20.9
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°	2840.9	2840.9	2840.9	2840.9	2840.9	2840.9	2840.9	2840.9	2840.9	2840.9	2840.9
2.5°	2868.8	2850.6	2861.8	2866.0	2866.0	2861.8	2843.7	2838.1	2829.7	2817.2	2817.2
5°	2932.9	2919.0	2921.8	2914.8	2898.0	2877.1	2843.7	2826.9	2813.0	2797.6	2796.2
7.5°	3043.1	3025.0	3022.2	2995.7	2951.0	2906.4	2856.2	2825.5	2804.6	2785.1	2783.7
10°	3186.7	3170.0	3149.1	3096.1	3030.5	2965.0	2896.7	2854.8	2824.1	2796.2	2794.8
12.5°	3347.1	3327.6	3288.5	3210.4	3128.2	3064.0	2985.9	2921.8	2875.7	2838.1	2831.1
15°	3521.5	3493.6	3426.6	3334.6	3253.7	3185.3	3101.7	3009.6	2939.9	2879.9	2872.9
17.5°	3655.3	3619.1	3546.6	3460.1	3393.1	3324.8	3216.0	3100.3	2999.9	2924.5	2913.4
20°	3747.4	3718.1	3635.8	3571.7	3532.6	3472.6	3345.7	3214.6	3101.7	3006.8	3001.3
22.5°	3832.5	3797.6	3716.7	3679.0	3679.0	3638.6	3517.3	3362.5	3230.0	3119.8	3105.8
25°	3928.7	3891.0	3829.7	3825.5	3845.0	3826.9	3680.4	3514.5	3359.7	3235.6	3213.2
27.5°	4062.6	4020.7	3984.5	4009.6	4037.5	4017.9	3854.8	3662.3	3499.1	3373.6	3354.1
30°	4275.9	4224.3	4190.9	4221.6	4275.9	4218.8	4041.6	3838.0	3673.5	3535.4	3525.6
32.5°	4524.2	4465.6	4430.8	4479.6	4528.4	4439.1	4263.4	4068.1	3895.2	3750.2	3733.4
35°	4822.6	4748.7	4697.1	4762.7	4812.9	4725.0	4550.7	4365.2	4172.7	4022.1	3999.8
37.5°	5087.6	4998.4	4963.5	5055.5	5122.5	5065.3	4875.6	4701.3	4490.7	4326.2	4316.4
40°	5280.1	5192.2	5167.1	5319.1	5436.3	5422.3	5252.2	5052.8	4854.7	4665.0	4646.9
42.5°	5363.8	5302.4	5308.0	5513.0	5694.3	5783.5	5631.5	5418.2	5227.1	5030.4	5017.9
45°	5381.9	5344.2	5388.9	5645.5	5884.0	6066.7	5937.0	5758.4	5542.3	5352.6	5347.0
47.5°	5401.4	5380.5	5448.8	5720.8	6003.9	6215.9	6143.4	5959.3	5740.3	5554.8	5540.9
50°	5447.4	5439.1	5515.8	5773.8	6061.1	6256.3	6174.0	5991.3	5766.8	5584.1	5550.6
52.5°	5461.4	5447.4	5557.6	5856.1	6155.9	6254.9	6077.8	5839.3	5613.4	5409.8	5374.9
55°	5504.6	5479.5	5554.8	5886.7	6287.0	6335.8	6072.2	5715.2	5400.0	5122.5	5040.2
57.5°	5515.8	5487.9	5536.7	5836.5	6144.8	6101.5	5337.3	4612.1	4017.9	3709.7	3744.6
60°	5455.8	5464.2	5380.5	5347.0	4928.6	4351.3	3267.6	2612.1	2051.5	1814.4	1866.0
62.5°	4153.2	4188.1	3902.2	3393.1	2609.4	2068.2	1368.1	1062.7	899.5	857.7	864.7
65°	2096.1	2143.6	1846.5	1527.1	1135.2	917.7	793.5	768.4	760.1	750.3	750.3
67.5°	829.8	843.8	832.6	779.6	725.2	705.7	700.1	697.3	687.6	682.0	683.4
70°	666.6	677.8	661.1	627.6	605.3	603.9	601.1	595.5	588.5	588.5	592.7
72.5°	543.9	555.1	531.4	510.4	493.7	481.1	474.2	470.0	460.2	460.2	464.4
75°	400.3	407.2	387.7	384.9	366.8	354.2	343.1	337.5	324.9	319.4	323.6
77.5°	266.4	265.0	255.2	255.2	248.2	232.9	220.4	207.8	191.1	179.9	182.7
80°	172.9	172.9	168.8	168.8	161.8	149.2	133.9	121.3	111.6	103.2	103.2
82.5°	110.2	108.8	107.4	106.0	103.2	90.7	79.5	71.1	64.2	58.6	60.0
85°	61.4	61.4	58.6	58.6	53.0	46.0	40.4	34.9	30.7	29.3	29.3
87.5°	20.9	20.9	19.5	19.5	16.7	12.6	9.8	8.4	7.0	5.6	7.0
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)