

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: P637206

Luminaire Tested: GWS-SA4C-735-U-SL2-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637206  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-30)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4C-735-U-SL2-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (64) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

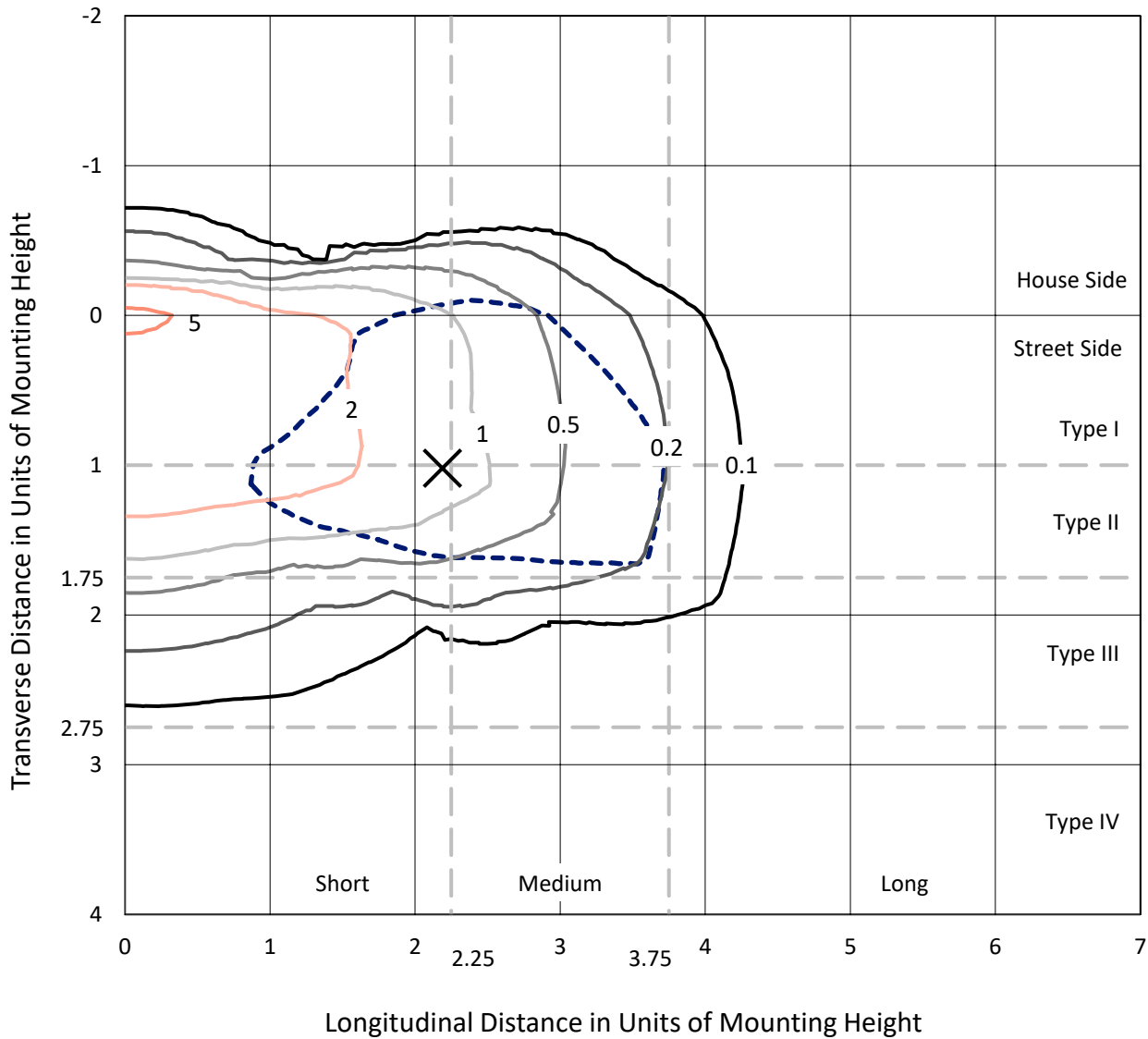
Lumens per Lamp: N/A  
Luminaire Lumens: 15177 lumens  
Efficiency: N/A  
Efficacy: 118.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 128.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

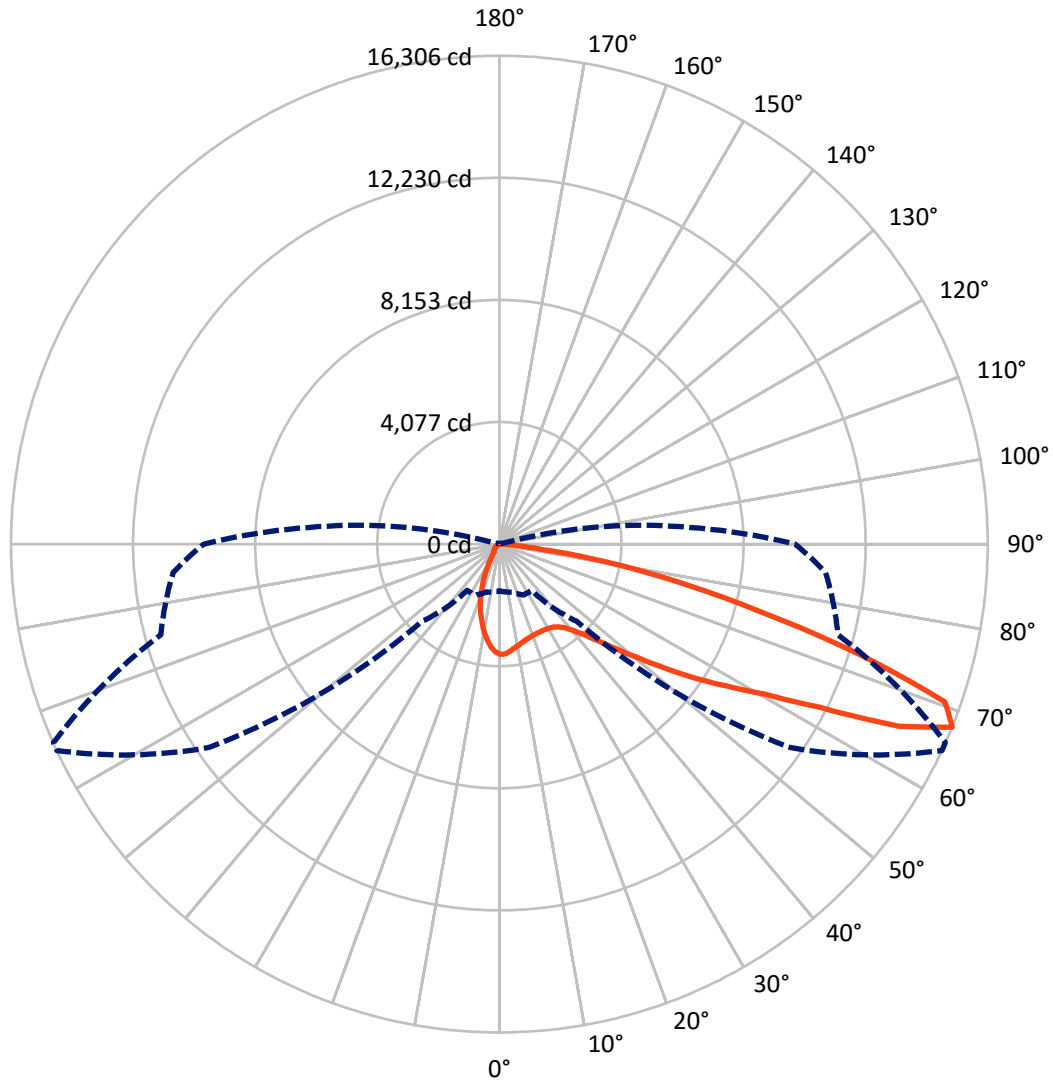
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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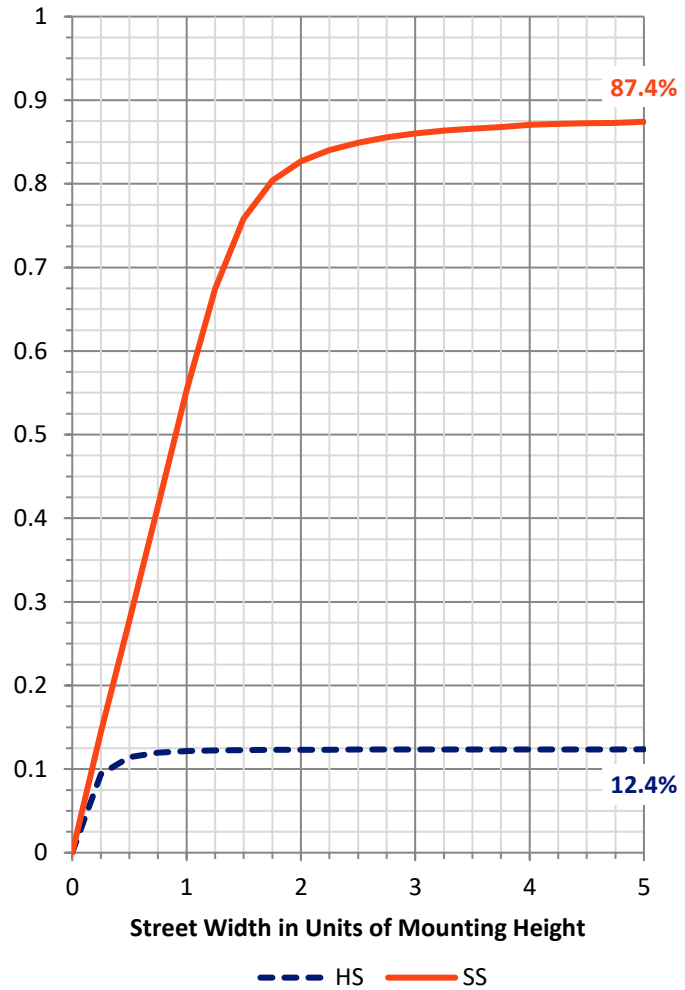
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1895.2	0.0	1895.2
	% Fixture	12.5	0.0	12.5
<b>Street Side</b>	Lumens	13281.8	0.0	13281.8
	% Fixture	87.5	0.0	87.5
<b>Total</b>	Lumens	15177.0	0.0	15177.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	305.7	2.0
10°-20°	687.2	4.5
20°-30°	982.0	6.5
30°-40°	1428.7	9.4
40°-50°	2237.6	14.7
50°-60°	3490.7	23.0
60°-70°	3834.4	25.3
70°-80°	2040.6	13.4
80°-90°	169.9	1.1
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°	15177.0	100.0
0°-180°	15177.0	100.0

**Coefficient of Utilization**



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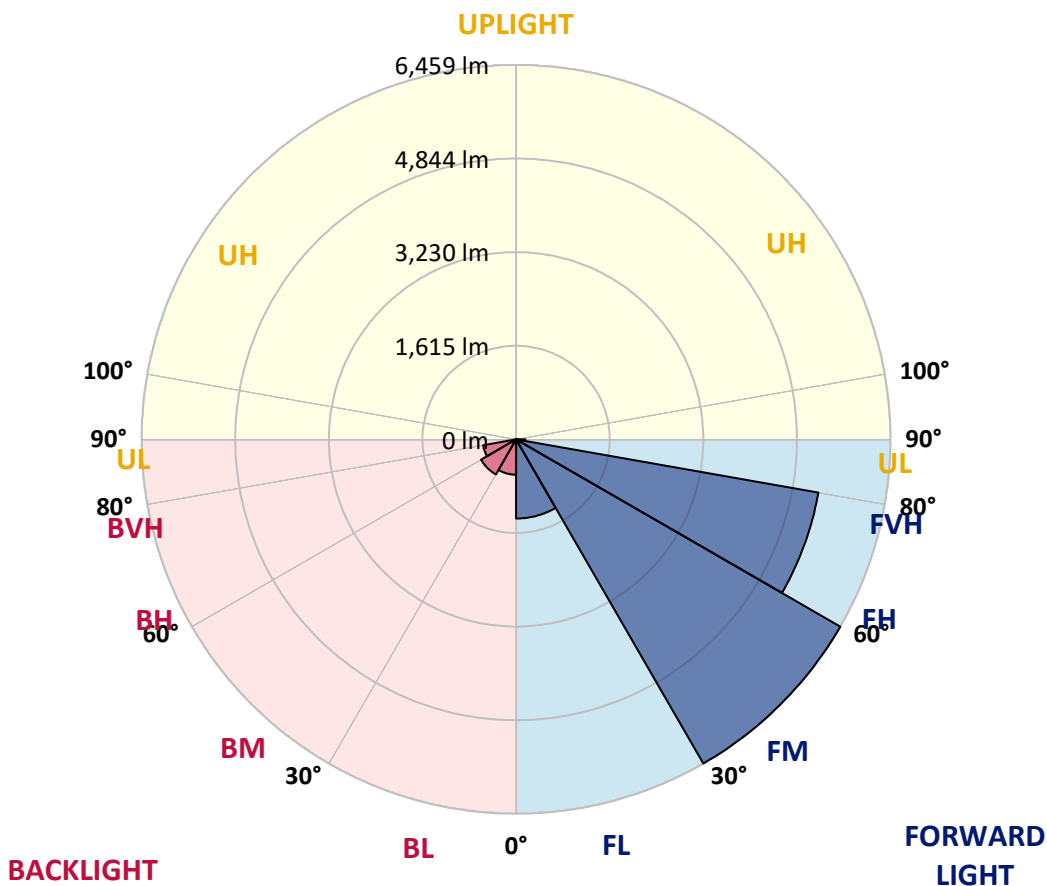
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1365.8	9.0			
FM (30°-60°)	6459.0	42.6			
FH (60°-80°)	5296.2	34.9			G3/7500
FVH (80°-90°)	160.8	1.1			G2/225
BL (0°-30°)	609.1	4.0	B2/1000		
BM (30°-60°)	698.1	4.6	B1/1000		
BH (60°-80°)	578.9	3.8	B2/1000		G2/1000
BVH (80°-90°)	9.1	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3680.9	3680.9	3680.9	3680.9	3680.9	3680.9	3680.9	3680.9	3680.9	3680.9	3680.9
2.5°	3553.3	3564.2	3549.1	3586.2	3593.1	3634.2	3657.6	3674.0	3672.7	3693.3	3693.3
5°	3344.7	3355.6	3347.4	3387.2	3418.8	3483.3	3536.8	3598.6	3601.3	3664.4	3687.8
7.5°	3167.6	3169.0	3169.0	3218.4	3259.6	3339.2	3418.8	3513.5	3524.4	3621.9	3683.6
10°	3022.1	3026.2	3027.6	3083.9	3129.2	3225.2	3326.8	3440.7	3453.1	3584.8	3680.9
12.5°	2921.9	2923.3	2928.8	2987.8	3037.2	3137.4	3240.3	3370.7	3387.2	3542.3	3668.5
15°	2873.9	2871.2	2873.9	2923.3	2972.7	3068.8	3174.5	3314.5	3332.3	3506.6	3669.9
17.5°	2871.2	2867.0	2864.3	2901.4	2932.9	3018.0	3125.1	3277.4	3296.6	3490.1	3685.0
20°	2911.0	2908.2	2894.5	2911.0	2917.8	2987.8	3093.5	3248.6	3267.8	3487.4	3718.0
22.5°	3015.3	3008.4	2987.8	2972.7	2935.7	2976.8	3071.5	3228.0	3250.0	3494.2	3760.5
25°	3170.4	3167.6	3141.5	3104.5	3009.8	2993.3	3072.9	3228.0	3248.6	3502.5	3805.8
27.5°	3403.7	3387.2	3354.3	3289.8	3153.9	3057.8	3100.4	3236.2	3256.8	3513.5	3842.8
30°	3641.1	3639.7	3628.7	3562.9	3361.1	3181.3	3158.0	3258.2	3277.4	3523.1	3877.2
32.5°	3886.8	3890.9	3918.3	3867.6	3646.6	3365.2	3262.3	3303.5	3317.2	3542.3	3907.4
35°	4120.1	4128.3	4201.1	4218.9	3993.8	3643.8	3432.5	3394.1	3395.4	3584.8	3947.2
37.5°	4343.8	4371.2	4487.9	4574.4	4426.1	3981.5	3678.2	3547.8	3536.8	3669.9	4007.5
40°	4597.7	4649.8	4796.7	4943.6	4896.9	4427.5	4013.0	3783.8	3760.5	3826.4	4116.0
42.5°	4879.0	4935.3	5130.2	5336.1	5358.0	4966.9	4431.6	4128.3	4088.5	4089.9	4319.1
45°	5181.0	5256.5	5482.9	5779.4	5912.5	5568.0	4947.7	4593.6	4553.8	4494.8	4645.7
47.5°	5577.6	5643.5	5861.7	6203.5	6458.7	6213.1	5624.3	5192.0	5119.2	5032.8	5153.5
50°	5919.4	5977.0	6165.0	6593.2	7124.4	7044.8	6391.5	5939.9	5870.0	5723.1	5823.3
52.5°	5994.8	6040.1	6213.1	6694.8	7633.5	8094.7	7331.6	6844.4	6795.0	6523.2	6561.7
55°	5655.9	5724.5	5879.6	6414.8	7766.7	9121.3	8551.7	7864.1	7761.2	7327.5	7396.1
57.5°	4799.4	4921.6	5067.1	5762.9	7405.7	9667.5	10256.3	8944.2	8850.9	8101.5	8102.9
60°	3517.6	3616.4	3713.8	4350.7	6549.3	9630.5	11803.0	10157.5	9987.3	8734.2	8710.9
62.5°	2558.2	2609.0	2607.6	2834.1	4497.5	8996.4	12615.5	11985.6	11588.9	9410.9	9277.7
65°	2012.0	2010.6	2069.6	2143.8	2511.6	6944.6	12715.7	14655.0	14226.8	10318.1	10040.8
67.5°	1566.0	1596.2	1655.2	1873.4	1887.1	3634.2	11834.6	16306.0	16297.8	11702.8	10934.3
70°	1207.8	1248.9	1332.6	1651.1	1743.0	2034.0	8855.0	15783.1	15916.3	12321.8	10301.6
72.5°	775.4	772.7	896.2	1334.0	1674.4	1695.0	4896.9	12537.3	12688.3	11160.7	8329.4
75°	433.7	436.4	506.4	816.6	1560.5	1594.8	2425.1	8940.1	9059.5	8701.3	6399.7
77.5°	170.2	175.7	237.4	429.6	1029.3	1424.6	1441.1	6096.4	6114.2	5392.3	3925.2
80°	68.6	72.7	120.8	266.3	627.2	959.3	1029.3	3591.7	3519.0	2087.5	1141.9
82.5°	20.6	22.0	48.0	151.0	328.0	682.1	694.5	1377.9	1301.1	448.8	291.0
85°	1.4	1.4	11.0	46.7	116.7	171.6	462.5	448.8	398.0	112.5	129.0
87.5°	0.0	0.0	1.4	1.4	2.7	5.5	49.4	82.3	83.7	20.6	57.6
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°	3680.9	3680.9	3680.9	3680.9	3680.9	3680.9	3680.9	3680.9	3680.9	3680.9	3680.9
2.5°	3693.3	3643.8	3639.7	3601.3	3562.9	3514.8	3458.6	3417.4	3388.6	3337.8	3328.2
5°	3687.8	3621.9	3560.1	3450.3	3328.2	3196.4	3081.1	2974.1	2906.8	2861.6	2842.3
7.5°	3676.8	3593.1	3450.3	3243.1	3038.6	2808.0	2628.2	2463.5	2351.0	2285.1	2256.3
10°	3668.5	3556.0	3324.1	3009.8	2692.7	2374.3	2101.2	1856.9	1721.0	1614.0	1596.2
12.5°	3652.1	3502.5	3162.1	2736.7	2327.7	1905.0	1556.4	1257.2	1049.9	956.6	923.7
15°	3635.6	3446.2	3000.2	2448.4	1929.7	1408.1	985.4	697.2	554.5	510.5	507.8
17.5°	3632.9	3395.4	2824.5	2175.3	1512.4	922.3	561.3	451.5	421.3	410.4	410.4
20°	3641.1	3352.9	2651.6	1861.0	1102.1	561.3	418.6	391.1	373.3	363.7	363.7
22.5°	3649.3	3309.0	2485.5	1544.0	731.5	410.4	369.2	345.9	325.3	314.3	308.8
25°	3654.8	3260.9	2301.6	1225.6	477.6	356.8	323.9	293.7	269.0	255.3	255.3
27.5°	3653.5	3203.3	2116.3	914.0	370.6	317.0	277.2	245.7	221.0	205.9	207.2
30°	3642.5	3140.2	1924.2	638.2	323.9	277.2	237.4	204.5	179.8	167.4	166.1
32.5°	3634.2	3072.9	1701.8	448.8	291.0	242.9	201.7	170.2	149.6	140.0	138.6
35°	3624.6	3007.0	1490.5	341.7	262.1	210.0	170.2	144.1	127.6	119.4	119.4
37.5°	3627.4	2938.4	1261.3	293.7	233.3	182.5	145.5	123.5	109.8	101.6	100.2
40°	3669.9	2897.2	1036.2	266.3	207.2	157.8	126.3	107.1	93.3	85.1	83.7
42.5°	3775.6	2898.6	820.7	245.7	183.9	134.5	109.8	92.0	79.6	70.0	68.6
45°	3987.0	2956.2	630.0	223.7	159.2	116.7	94.7	78.2	65.9	57.6	56.3
47.5°	4332.8	3127.8	477.6	204.5	138.6	101.6	81.0	65.9	54.9	48.0	46.7
50°	4883.2	3438.0	376.1	181.2	116.7	87.8	68.6	54.9	45.3	38.4	37.1
52.5°	5544.7	3903.2	322.5	160.6	100.2	76.9	59.0	45.3	37.1	31.6	30.2
55°	6305.0	4459.1	297.8	140.0	85.1	65.9	48.0	37.1	30.2	26.1	23.3
57.5°	7002.2	4960.0	296.4	119.4	72.7	56.3	39.8	31.6	26.1	20.6	19.2
60°	7681.6	5378.6	278.6	98.8	63.1	46.7	34.3	26.1	22.0	17.8	16.5
62.5°	8297.8	5719.0	233.3	79.6	53.5	38.4	28.8	23.3	19.2	15.1	15.1
65°	9071.9	6152.7	178.4	64.5	43.9	31.6	24.7	20.6	17.8	13.7	13.7
67.5°	9872.0	6381.9	127.6	53.5	35.7	27.4	22.0	19.2	15.1	12.4	12.4
70°	8941.5	5392.3	92.0	43.9	30.2	23.3	19.2	17.8	15.1	12.4	11.0
72.5°	6983.0	3888.1	68.6	34.3	26.1	22.0	17.8	16.5	13.7	11.0	11.0
75°	5178.2	2267.3	52.2	27.4	20.6	17.8	17.8	16.5	13.7	11.0	9.6
77.5°	2814.9	790.5	39.8	22.0	16.5	13.7	15.1	15.1	12.4	9.6	8.2
80°	745.2	216.8	27.4	16.5	13.7	11.0	11.0	13.7	11.0	8.2	8.2
82.5°	216.8	63.1	19.2	13.7	11.0	9.6	9.6	9.6	8.2	6.9	5.5
85°	105.7	23.3	13.7	11.0	9.6	8.2	6.9	6.9	5.5	4.1	4.1
87.5°	46.7	9.6	11.0	9.6	9.6	6.9	5.5	4.1	4.1	2.7	1.4
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)