

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: P639187

Luminaire Tested: GWS-SA5B-735-U-SL2-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639187  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-27)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5B-735-U-SL2-W  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS  
Light Source: (80) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

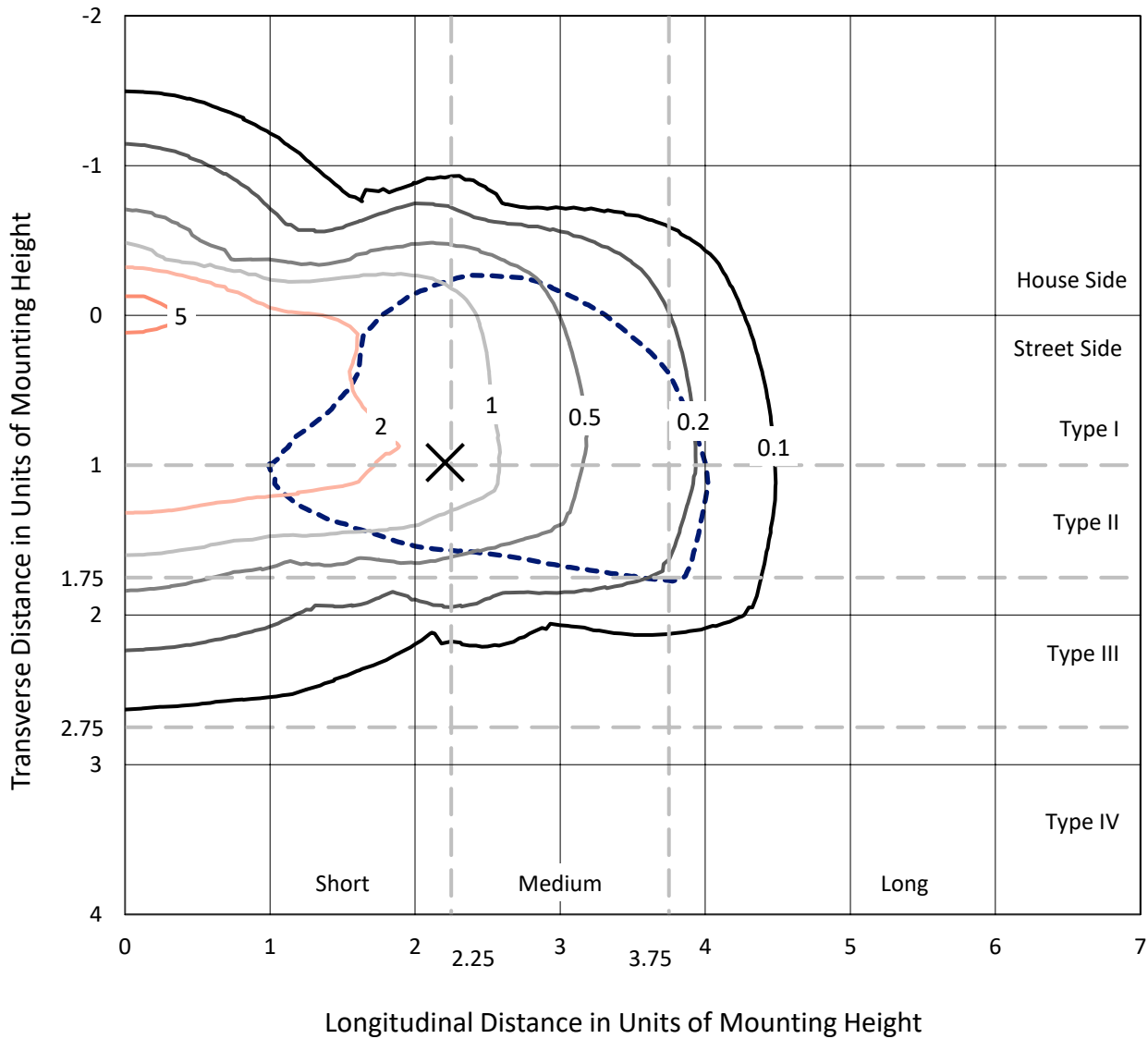
Lumens per Lamp: N/A  
Luminaire Lumens: 17209.3 lumens  
Efficiency: N/A  
Efficacy: 148.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 115.7  
Input Voltage (V): 120  
Input Current (Ain): 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

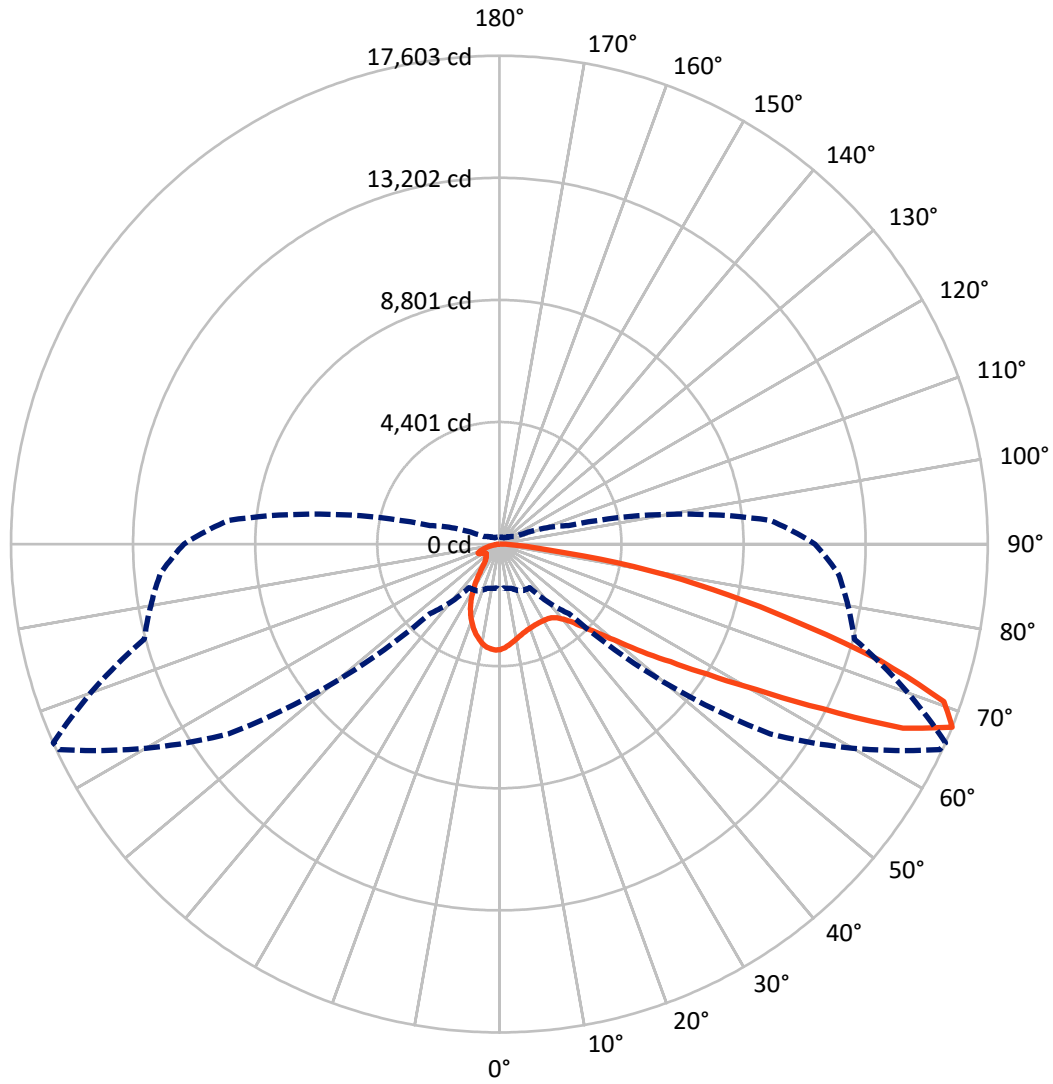
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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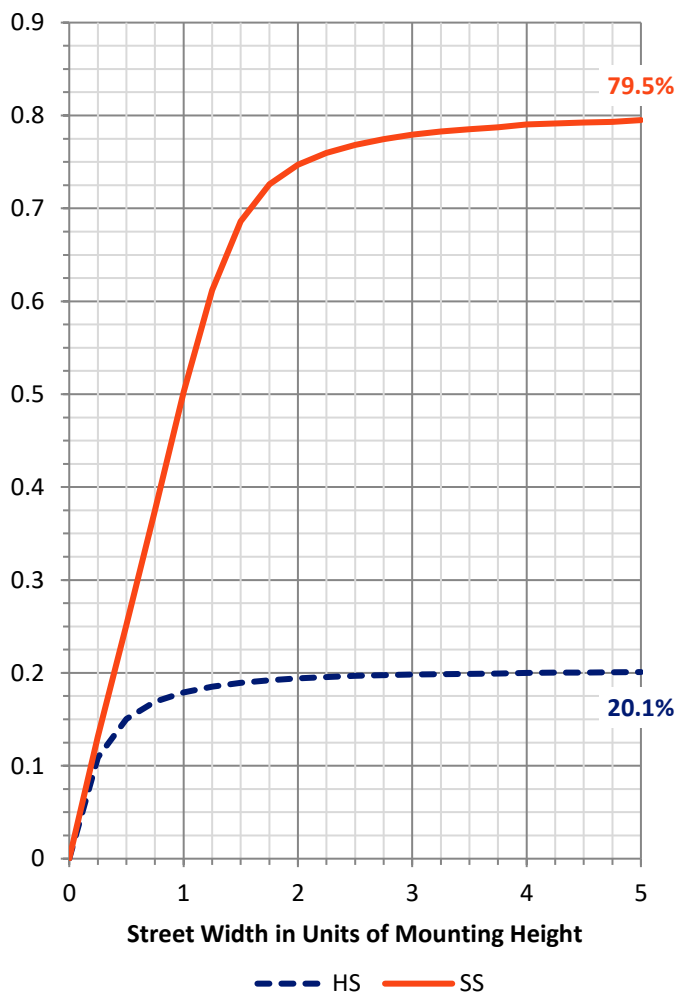
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3492.2	0.0	3492.2
	% Fixture	20.3	0.0	20.3
<b>Street Side</b>	Lumens	13717.1	0.0	13717.1
	% Fixture	79.7	0.0	79.7
<b>Total</b>	Lumens	17209.3	0.0	17209.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	333.7	1.9
10°-20°	820.2	4.8
20°-30°	1127.4	6.6
30°-40°	1541.3	9.0
40°-50°	2335.5	13.6
50°-60°	3630.7	21.1
60°-70°	4420.2	25.7
70°-80°	2692.6	15.6
80°-90°	307.6	1.8
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°	17209.3	100.0
0°-180°	17209.3	100.0

**Coefficient of Utilization**



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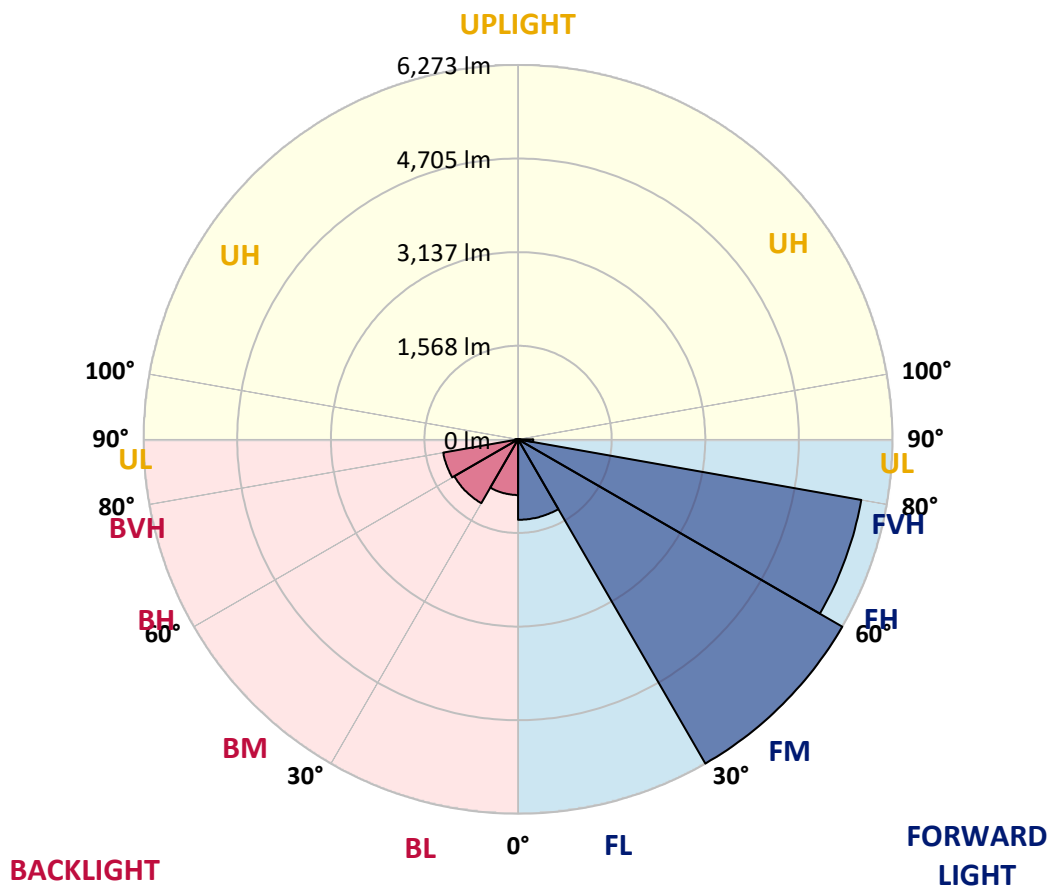
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1348.4	7.8			
FM (30°-60°)	6273.4	36.5			
FH (60°-80°)	5839.5	33.9			G3/7500
FVH (80°-90°)	255.7	1.5			G3/500
BL (0°-30°)	932.9	5.4	B2/1000		
BM (30°-60°)	1234.1	7.2	B2/2500		
BH (60°-80°)	1273.3	7.4	B3/2500		G3/2500
BVH (80°-90°)	51.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3802.8	3802.8	3802.8	3802.8	3802.8	3802.8	3802.8	3802.8	3802.8	3802.8	3802.8
2.5°	3561.7	3574.3	3566.7	3614.4	3617.0	3677.2	3711.1	3740.0	3742.5	3780.2	3805.3
5°	3318.2	3325.7	3325.7	3370.9	3401.0	3481.4	3559.2	3642.1	3648.3	3738.7	3807.8
7.5°	3121.1	3128.6	3123.6	3183.8	3222.7	3311.9	3411.1	3537.9	3550.4	3696.1	3816.6
10°	2966.6	2964.1	2976.7	3031.9	3082.1	3188.9	3299.3	3443.7	3462.5	3647.1	3826.6
12.5°	2861.2	2863.7	2871.2	2929.0	2983.0	3088.4	3202.7	3359.6	3379.7	3590.6	3821.6
15°	2811.0	2805.9	2812.2	2864.9	2916.4	3009.3	3127.3	3289.3	3309.4	3540.4	3822.9
17.5°	2799.7	2795.9	2794.6	2832.3	2871.2	2957.8	3070.8	3235.3	3256.6	3507.7	3830.4
20°	2834.8	2829.8	2816.0	2832.3	2848.6	2921.4	3030.7	3196.4	3220.2	3486.4	3845.5
22.5°	2931.5	2922.7	2901.4	2881.3	2859.9	2903.9	3005.6	3167.5	3191.4	3472.6	3860.5
25°	3078.4	3070.8	3048.2	3003.0	2925.2	2917.7	3000.5	3155.0	3178.8	3462.5	3866.8
27.5°	3280.5	3269.2	3246.6	3181.3	3054.5	2969.1	3019.4	3153.7	3176.3	3451.2	3860.5
30°	3520.3	3512.8	3500.2	3421.1	3251.6	3078.4	3062.0	3163.7	3181.3	3445.0	3848.0
32.5°	3763.8	3756.3	3766.4	3728.7	3520.3	3259.2	3155.0	3191.4	3203.9	3443.7	3836.7
35°	3978.5	3987.3	4060.1	4066.4	3861.8	3504.0	3301.8	3255.4	3257.9	3468.8	3841.7
37.5°	4203.3	4237.2	4332.6	4414.2	4243.4	3827.9	3520.3	3375.9	3373.4	3532.8	3873.1
40°	4500.8	4515.9	4637.6	4790.8	4684.1	4272.3	3830.4	3573.0	3555.4	3663.4	3957.2
42.5°	4790.8	4827.2	5021.8	5197.6	5162.4	4773.2	4220.8	3868.1	3836.7	3894.4	4130.4
45°	5159.9	5195.1	5413.5	5639.5	5703.5	5339.4	4720.5	4287.4	4256.0	4242.2	4448.1
47.5°	5529.0	5565.4	5761.3	6087.7	6312.4	6047.5	5370.8	4841.0	4789.6	4735.6	4927.7
50°	5777.6	5820.3	6007.3	6399.0	6926.3	6931.4	6141.7	5566.7	5501.4	5416.0	5603.1
52.5°	5768.8	5796.4	5974.7	6426.7	7368.3	7947.0	7173.7	6490.7	6438.0	6252.2	6415.4
55°	5315.6	5357.0	5536.5	6101.5	7416.0	8909.9	8690.2	7580.4	7486.3	7153.6	7333.1
57.5°	4405.4	4440.5	4621.3	5318.1	6992.9	9403.3	10616.1	8969.0	8839.6	8135.3	8342.5
60°	3325.7	3283.0	3368.4	3978.5	5981.0	9415.9	12316.0	10852.1	10636.2	9184.9	9358.1
62.5°	2495.8	2453.2	2472.0	2644.0	4055.1	8655.1	13285.2	13428.3	13071.8	10370.0	10336.1
65°	1972.3	1948.5	2002.4	2120.5	2364.0	6591.1	13292.7	16214.2	15989.4	11743.5	11339.3
67.5°	1607.0	1591.9	1647.2	1865.6	1917.1	3541.6	11919.3	17514.8	17602.7	13247.5	12269.5
70°	1294.4	1271.8	1358.4	1645.9	1782.7	2143.1	8538.3	16851.9	16993.8	14143.9	12007.2
72.5°	893.9	895.1	939.1	1333.3	1721.2	1850.5	4829.7	14032.2	14339.8	13331.7	10555.8
75°	602.6	607.6	620.2	880.1	1585.6	1795.3	2573.7	10623.6	10840.8	11019.1	8725.4
77.5°	364.1	366.6	395.5	532.3	1093.5	1676.0	1743.8	7700.9	7871.7	7264.1	5408.5
80°	210.9	219.7	246.1	356.5	738.2	1259.2	1349.6	4721.8	4915.1	3229.0	1718.7
82.5°	92.9	99.2	134.3	207.1	430.6	1070.9	1053.3	1865.6	1838.0	900.2	596.3
85°	16.3	20.1	28.9	65.3	158.2	565.0	817.3	823.6	774.6	341.5	247.3
87.5°	0.0	0.0	0.0	0.0	0.0	3.8	123.0	221.0	219.7	96.7	85.4
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°	3802.8	3802.8	3802.8	3802.8	3802.8	3802.8	3802.8	3802.8	3802.8	3802.8	3802.8
2.5°	3821.6	3787.7	3817.8	3821.6	3815.3	3810.3	3772.6	3740.0	3736.2	3701.1	3701.1
5°	3835.4	3804.0	3819.1	3790.2	3745.0	3698.6	3618.2	3563.0	3537.9	3492.7	3492.7
7.5°	3854.2	3821.6	3804.0	3732.5	3627.0	3525.3	3396.0	3288.0	3244.1	3180.1	3177.6
10°	3871.8	3830.4	3770.1	3630.8	3462.5	3300.6	3112.3	2959.1	2854.9	2778.3	2778.3
12.5°	3870.6	3816.6	3697.3	3491.4	3259.2	3024.4	2773.3	2542.3	2404.2	2284.9	2277.4
15°	3868.1	3794.0	3604.4	3329.5	3021.9	2696.7	2355.2	2053.9	1849.3	1732.5	1722.5
17.5°	3865.5	3765.1	3500.2	3144.9	2733.1	2289.9	1839.2	1512.8	1342.1	1270.5	1273.0
20°	3865.5	3732.5	3388.5	2932.7	2400.4	1802.8	1349.6	1112.3	1069.6	1073.4	1077.2
22.5°	3854.2	3692.3	3264.2	2701.7	2030.1	1325.8	995.6	915.2	937.8	973.0	978.0
25°	3827.9	3625.7	3119.8	2445.6	1589.4	965.4	812.3	797.2	838.6	882.6	895.1
27.5°	3786.4	3549.2	2957.8	2145.6	1170.1	775.9	714.4	713.1	745.7	778.4	789.7
30°	3742.5	3463.8	2787.1	1811.6	847.4	675.4	651.6	651.6	667.9	688.0	685.5
32.5°	3691.0	3377.2	2603.8	1463.9	690.5	618.9	611.4	607.6	610.2	617.7	617.7
35°	3647.1	3300.6	2415.5	1096.0	618.9	587.6	580.0	571.2	567.5	562.4	565.0
37.5°	3630.8	3240.3	2220.9	826.1	583.8	565.0	552.4	539.8	531.1	528.5	527.3
40°	3657.1	3215.2	2026.3	680.5	558.7	541.1	527.3	511.0	503.4	503.4	503.4
42.5°	3760.1	3234.0	1827.9	615.2	541.1	521.0	500.9	485.9	483.3	485.9	487.1
45°	3948.4	3306.9	1622.0	582.5	526.0	500.9	477.1	465.8	465.8	468.3	468.3
47.5°	4284.9	3497.7	1418.7	562.4	511.0	484.6	459.5	448.2	446.9	449.5	449.5
50°	4867.4	3841.7	1235.4	548.6	499.7	472.1	446.9	431.9	428.1	426.9	426.9
52.5°	5601.8	4438.0	1118.6	538.6	485.9	458.2	433.1	413.0	405.5	401.7	401.7
55°	6489.4	5232.7	1118.6	531.1	468.3	441.9	413.0	393.0	381.7	376.6	376.6
57.5°	7495.1	6158.0	1311.9	524.8	454.5	423.1	391.7	371.6	359.1	351.5	351.5
60°	8518.2	7136.0	1790.3	516.0	441.9	399.2	367.8	349.0	332.7	323.9	322.7
62.5°	9579.1	8213.2	2420.5	521.0	433.1	376.6	342.7	321.4	307.6	298.8	297.5
65°	10550.8	9238.9	2971.7	559.9	434.4	356.5	313.9	295.0	283.7	272.4	271.2
67.5°	11375.7	9805.1	2585.0	639.0	460.8	332.7	285.0	266.2	256.1	248.6	247.3
70°	10798.2	8941.3	1466.4	688.0	497.2	307.6	252.3	239.8	229.7	224.7	223.5
72.5°	9233.9	7570.4	980.5	607.6	453.2	274.9	222.2	212.2	204.6	198.4	197.1
75°	7480.0	6003.6	749.5	498.4	352.8	223.5	190.8	183.3	175.8	169.5	168.2
77.5°	4425.5	3468.8	552.4	394.2	248.6	174.5	158.2	151.9	144.4	139.4	138.1
80°	1412.4	1205.2	350.3	271.2	164.5	134.3	121.8	116.8	109.2	102.9	101.7
82.5°	538.6	465.8	185.8	138.1	109.2	91.6	81.6	76.6	71.6	65.3	64.0
85°	238.5	223.5	102.9	74.1	59.0	45.2	40.2	37.7	31.4	26.4	25.1
87.5°	84.1	84.1	43.9	21.3	12.6	6.3	3.8	1.3	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)