

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: P639184

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

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639184  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-28)  
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-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (80) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

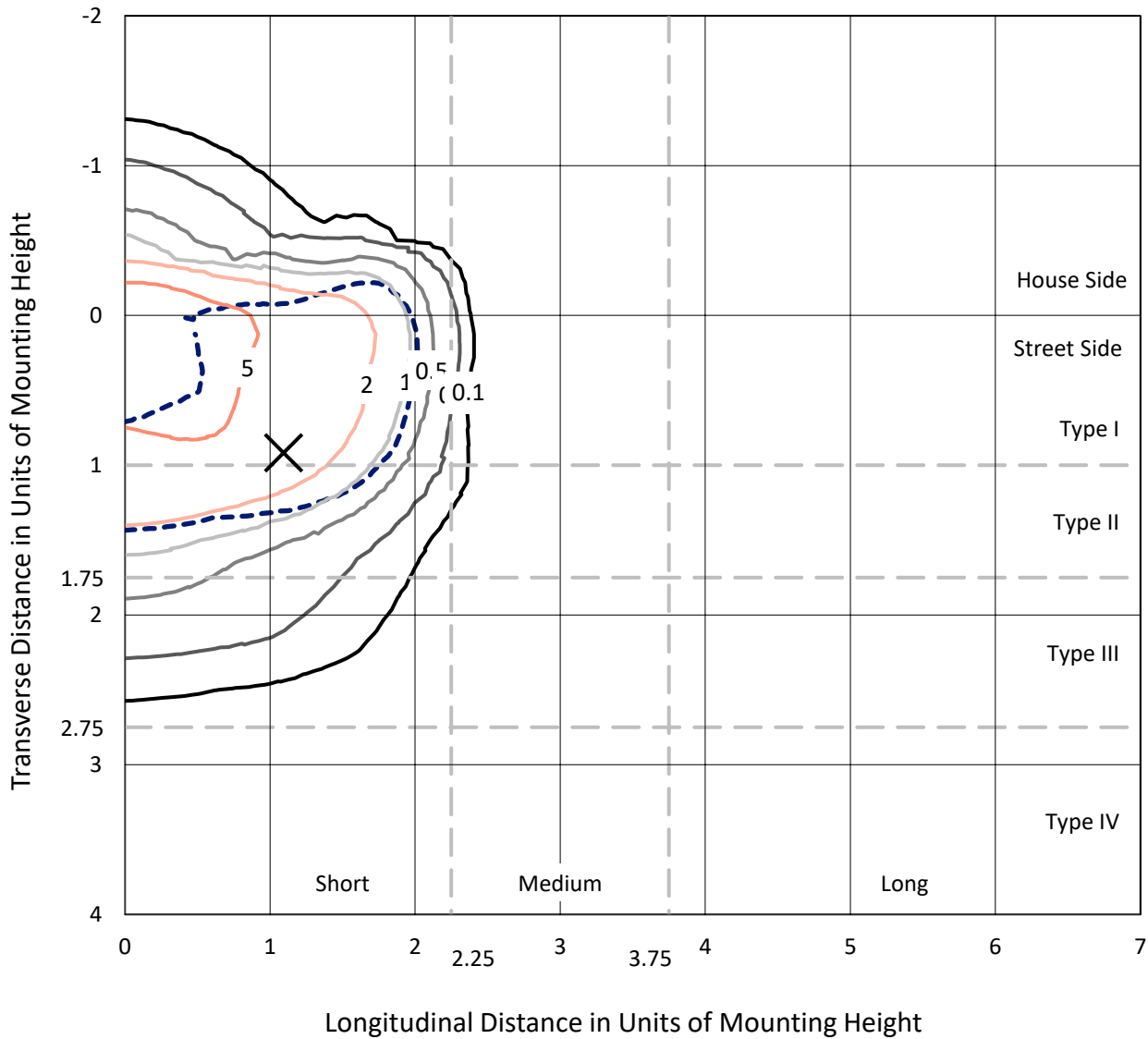
Lumens per Lamp: N/A  
Luminaire Lumens: 10283.1 lumens  
Efficiency: N/A  
Efficacy: 88.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 115.7  
Input Voltage (V): 120  
Input Current (Ain): 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

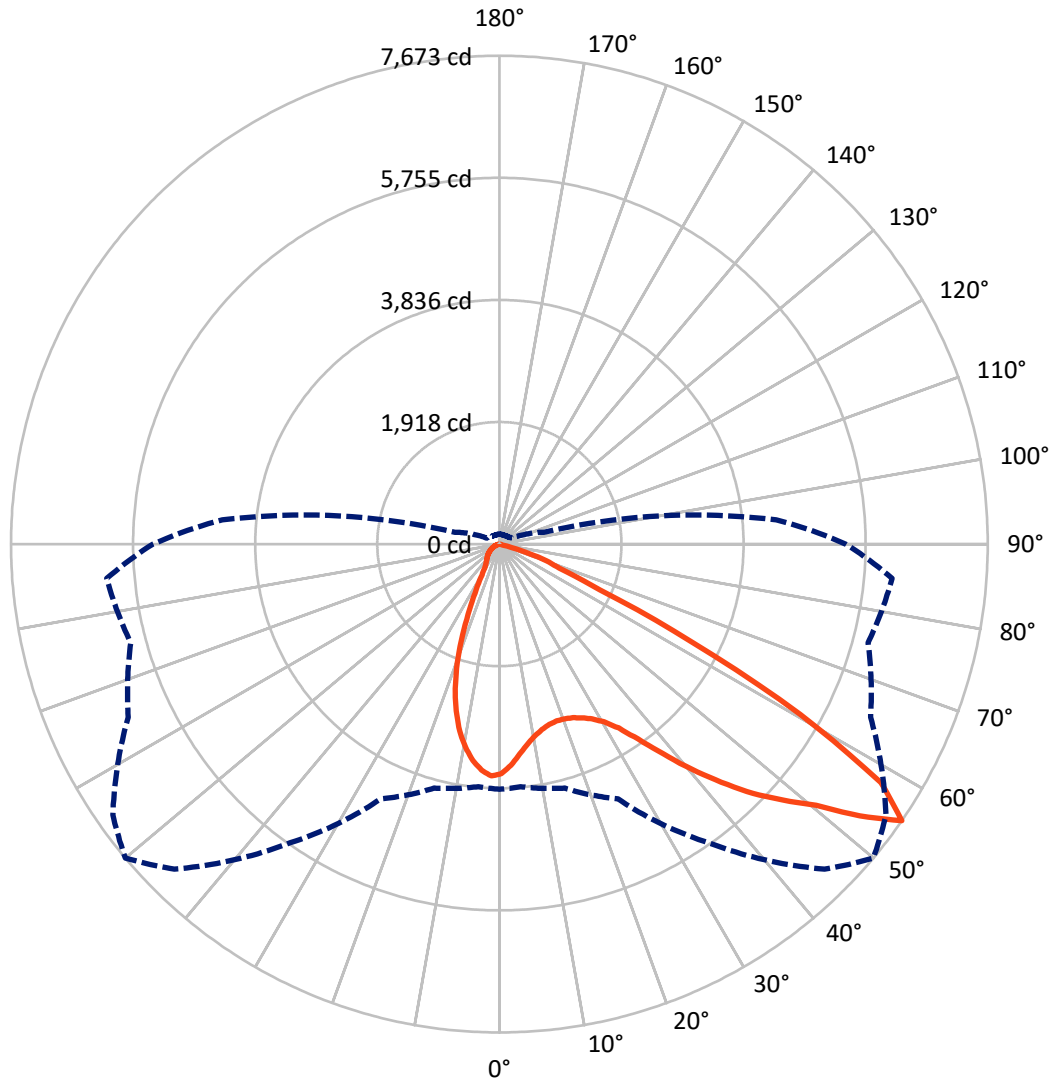
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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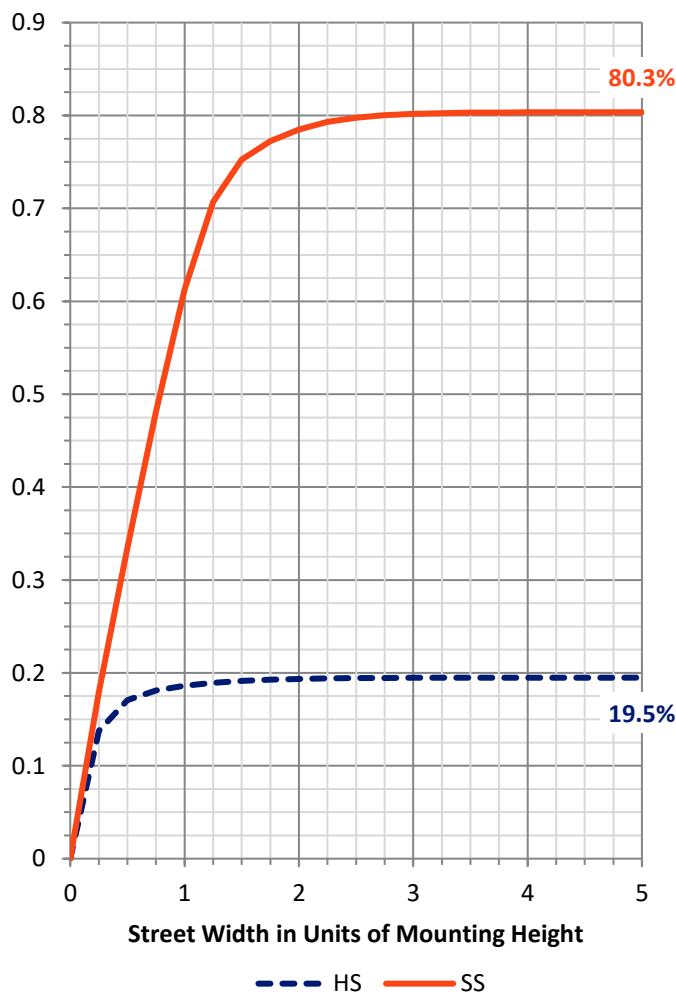
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2026.3	0.0	2026.3
	% Fixture	19.7	0.0	19.7
<b>Street Side</b>	Lumens	8256.9	0.0	8256.9
	% Fixture	80.3	0.0	80.3
<b>Total</b>	Lumens	10283.1	0.0	10283.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	316.8	3.1
10°-20°	779.7	7.6
20°-30°	1099.8	10.7
30°-40°	1627.5	15.8
40°-50°	2347.9	22.8
50°-60°	2769.6	26.9
60°-70°	1235.5	12.0
70°-80°	106.2	1.0
80°-90°	0.0	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°	10283.1	100.0
0°-180°	10283.1	100.0

**Coefficient of Utilization**



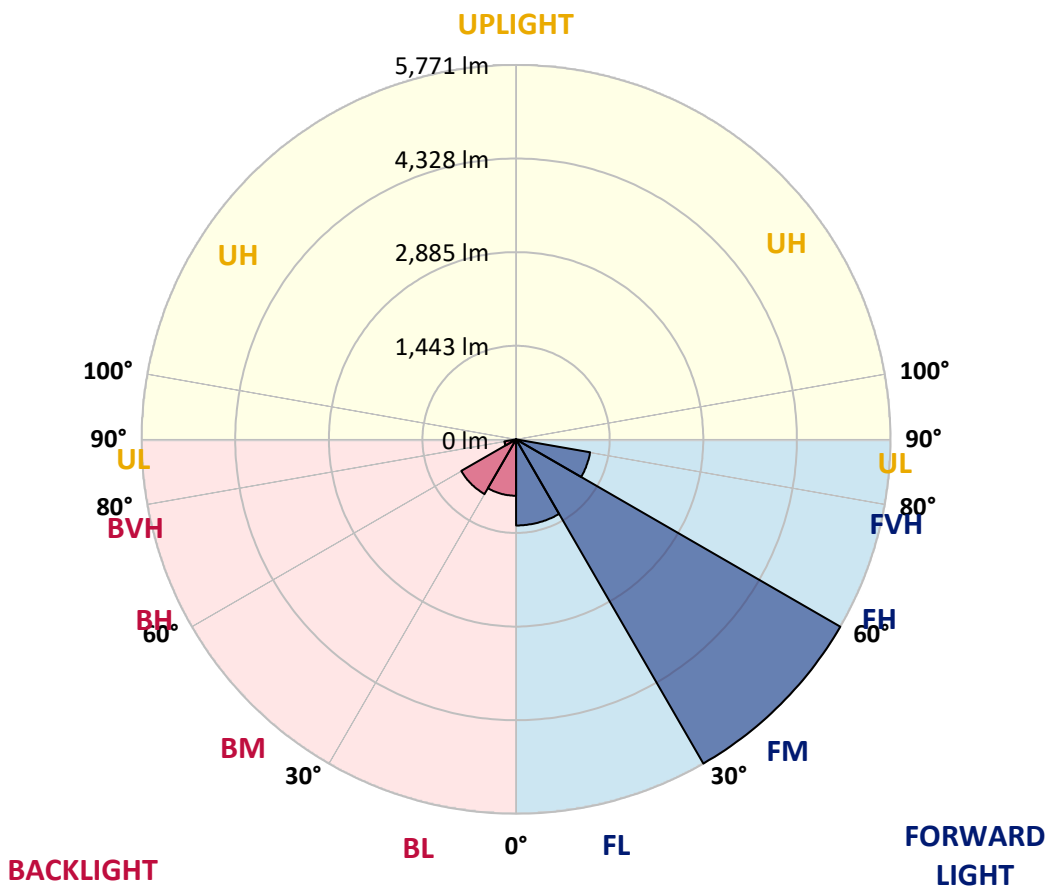
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1327.6	12.9			
FM (30°-60°)	5770.5	56.1			
FH (60°-80°)	1158.7	11.3			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	868.8	8.4	B2/1000		
BM (30°-60°)	974.5	9.5	B1/1000		
BH (60°-80°)	183.0	1.8	B1/500		G1/500
BVH (80°-90°)	0.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	3607.9	3607.9	3607.9	3607.9	3607.9	3607.9	3607.9	3607.9	3607.9	3607.9	3607.9
2.5°	3351.8	3354.3	3355.6	3389.5	3402.0	3452.2	3478.6	3492.4	3528.8	3571.5	3606.6
5°	3127.1	3123.3	3129.6	3172.3	3199.9	3274.0	3314.1	3341.7	3422.1	3522.5	3606.6
7.5°	2931.2	2938.8	2946.3	2992.8	3034.2	3114.5	3172.3	3213.7	3325.4	3474.8	3616.7
10°	2793.2	2793.2	2804.5	2857.2	2906.1	3005.3	3063.1	3115.8	3248.9	3432.1	3628.0
12.5°	2691.5	2692.7	2706.5	2766.8	2823.3	2926.2	2986.5	3038.0	3184.8	3389.5	3630.5
15°	2643.8	2640.0	2651.3	2715.3	2778.1	2874.8	2937.5	2987.7	3139.6	3365.6	3643.0
17.5°	2631.2	2628.7	2637.5	2700.3	2764.3	2858.4	2920.0	2970.2	3133.4	3373.1	3680.7
20°	2667.6	2662.6	2658.8	2712.8	2773.1	2866.0	2930.0	2986.5	3163.5	3414.6	3738.4
22.5°	2754.2	2754.2	2745.5	2771.8	2812.0	2896.1	2962.6	3036.7	3242.6	3497.4	3823.8
25°	2913.7	2901.1	2884.8	2896.1	2891.1	2943.8	3022.9	3125.8	3392.0	3634.2	3928.0
27.5°	3095.7	3107.0	3079.4	3080.6	3036.7	3017.9	3109.5	3265.2	3614.2	3827.6	4082.4
30°	3343.0	3334.2	3335.5	3331.7	3230.0	3140.9	3240.1	3447.2	3894.1	4122.6	4283.3
32.5°	3536.3	3548.9	3590.3	3614.2	3481.1	3338.0	3443.4	3694.5	4213.0	4459.0	4529.3
35°	3741.0	3763.5	3847.7	3925.5	3813.8	3649.3	3762.3	4022.1	4513.0	4791.7	4811.8
37.5°	3956.9	4002.1	4102.5	4239.3	4221.8	4076.1	4179.1	4407.5	4749.0	4992.5	5045.3
40°	4204.2	4248.1	4412.6	4609.7	4651.1	4618.4	4652.3	4785.4	4904.7	5001.3	5145.7
42.5°	4475.3	4535.6	4744.0	5007.6	5163.3	5192.1	5113.1	5099.2	4972.5	4900.9	5124.3
45°	4795.4	4865.7	5101.8	5443.2	5690.5	5729.4	5592.6	5415.6	5015.1	4826.8	5060.3
47.5°	5154.5	5221.0	5455.8	5866.3	6234.1	6249.1	6010.6	5725.7	5141.9	4912.2	5109.3
50°	5275.0	5316.4	5519.8	6001.8	6679.7	6795.2	6450.0	6074.7	5396.8	5163.3	5347.8
52.5°	4860.7	4877.0	5054.0	5541.1	6589.3	7331.3	7091.5	6595.6	5849.9	5546.1	5715.6
55°	3851.4	3825.1	3968.2	4415.1	5726.9	7222.0	7672.7	7414.1	6433.7	5995.6	6193.9
57.5°	2694.0	2662.6	2630.0	2932.5	4273.2	6122.4	7070.1	7528.3	6989.8	6441.2	6709.9
60°	2214.4	2184.3	2026.1	1886.8	2583.5	4396.2	5430.7	6293.1	6944.6	6418.6	6693.5
62.5°	1913.2	1895.6	1831.6	1642.0	1520.2	2509.4	3400.8	4226.8	5329.0	5040.2	5055.3
65°	1502.7	1497.6	1541.6	1561.7	1344.5	1388.4	1734.9	2196.9	2881.0	2716.6	2576.0
67.5°	1026.9	1015.6	1098.4	1350.8	1293.0	1095.9	1015.6	1024.4	1246.6	762.0	605.1
70°	652.8	626.4	627.7	837.3	1052.0	864.9	783.3	689.2	620.1	113.0	128.0
72.5°	418.0	401.7	345.2	377.9	487.1	421.8	425.6	366.6	244.8	60.3	70.3
75°	175.7	161.9	124.3	99.2	97.9	61.5	54.0	50.2	33.9	33.9	36.4
77.5°	1.3	0.0	0.0	1.3	2.5	1.3	1.3	2.5	5.0	7.5	8.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°	3607.9	3607.9	3607.9	3607.9	3607.9	3607.9	3607.9	3607.9	3607.9	3607.9	3607.9
2.5°	3628.0	3597.8	3631.7	3644.3	3643.0	3644.3	3607.9	3582.8	3581.5	3550.1	3535.1
5°	3641.8	3617.9	3643.0	3626.7	3587.8	3538.8	3473.6	3417.1	3392.0	3355.6	3338.0
7.5°	3668.1	3643.0	3639.3	3574.0	3477.3	3374.4	3258.9	3156.0	3100.7	3034.2	3038.0
10°	3687.0	3658.1	3609.1	3476.1	3315.4	3150.9	2979.0	2825.8	2729.1	2640.0	2624.9
12.5°	3694.5	3651.8	3537.6	3336.7	3110.8	2896.1	2643.8	2425.3	2274.7	2158.0	2141.6
15°	3708.3	3639.3	3445.9	3168.5	2858.4	2554.6	2233.3	1934.5	1734.9	1600.6	1611.9
17.5°	3729.7	3625.5	3343.0	2980.2	2587.3	2158.0	1723.6	1380.9	1197.6	1119.8	1121.0
20°	3759.8	3609.1	3230.0	2773.1	2262.1	1709.8	1205.1	946.5	895.1	892.6	888.8
22.5°	3800.0	3592.8	3109.5	2545.9	1876.8	1197.6	802.2	721.8	743.2	784.6	792.1
25°	3847.7	3572.7	2975.2	2289.8	1456.2	785.9	601.3	588.8	640.2	695.5	708.0
27.5°	3921.7	3562.7	2822.0	1998.5	1021.9	563.7	492.1	499.6	546.1	592.5	603.8
30°	4047.3	3581.5	2655.1	1672.1	656.5	449.4	426.8	438.1	463.2	487.1	497.1
32.5°	4218.0	3636.8	2493.1	1315.6	468.2	390.4	385.4	391.7	401.7	415.5	419.3
35°	4417.6	3732.2	2326.2	941.5	386.6	356.5	351.5	351.5	356.5	359.0	360.3
37.5°	4582.0	3832.6	2169.2	626.4	346.5	330.2	322.6	318.9	317.6	320.1	321.4
40°	4653.6	3874.0	1998.5	455.7	317.6	306.3	295.0	283.7	283.7	292.5	293.8
42.5°	4603.4	3827.6	1801.4	376.6	297.5	281.2	263.6	253.6	258.6	267.4	269.9
45°	4496.7	3713.3	1584.3	332.7	277.4	256.1	236.0	229.7	234.8	246.0	248.6
47.5°	4479.1	3638.0	1324.4	303.8	256.1	234.8	213.4	207.1	213.4	222.2	224.7
50°	4653.6	3703.3	1035.7	278.7	236.0	212.2	194.6	188.3	192.1	197.1	199.6
52.5°	4972.5	3945.6	836.1	254.8	212.2	189.6	178.3	170.7	170.7	175.7	177.0
55°	5443.2	4368.6	721.8	227.2	184.5	172.0	161.9	154.4	154.4	156.9	158.2
57.5°	5985.5	4880.8	748.2	190.8	161.9	155.7	146.9	140.6	143.1	143.1	143.1
60°	5910.2	4843.2	800.9	160.7	143.1	140.6	133.1	130.6	136.8	131.8	129.3
62.5°	4353.6	3345.5	419.3	131.8	123.0	120.5	115.5	120.5	129.3	115.5	110.5
65°	2114.0	1619.4	168.2	108.0	104.2	101.7	99.2	106.7	111.7	90.4	85.4
67.5°	497.1	404.2	109.2	91.6	86.6	81.6	84.1	85.4	81.6	61.5	59.0
70°	129.3	126.8	85.4	76.6	69.0	64.0	64.0	62.8	54.0	38.9	36.4
72.5°	70.3	69.0	61.5	57.7	47.7	42.7	43.9	38.9	30.1	22.6	21.3
75°	35.1	37.7	35.1	32.6	26.4	23.9	23.9	21.3	15.1	8.8	8.8
77.5°	7.5	8.8	8.8	7.5	6.3	5.0	5.0	6.3	2.5	0.0	0.0
80°	1.3	1.3	1.3	1.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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

(END OF REPORT)