

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: P635563

Luminaire Tested: GWS-SA3E-722-U-SL4-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P635563  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-35)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA3E-722-U-SL4-W  
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS  
Light Source: (48) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

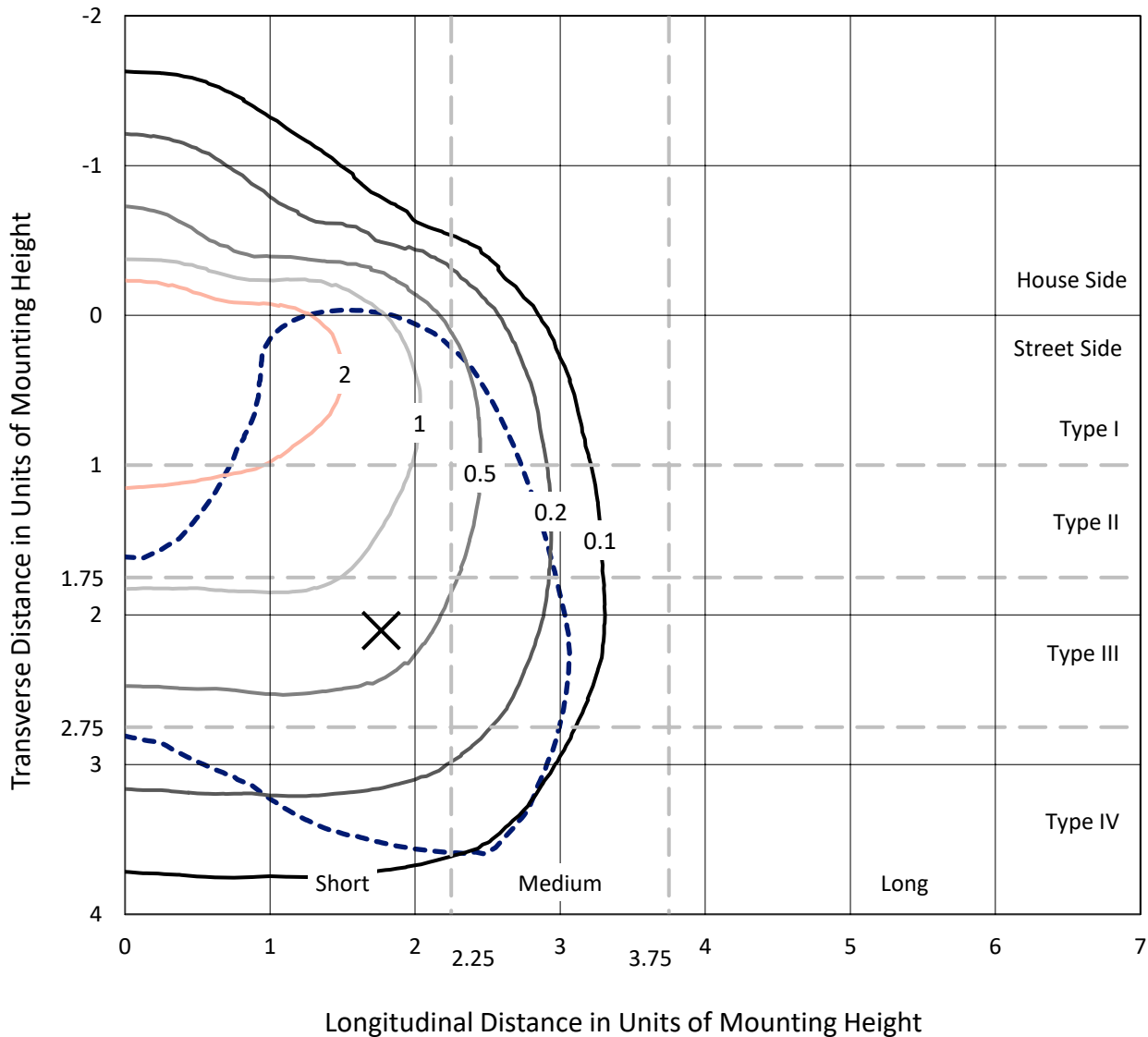
Lumens per Lamp: N/A  
Luminaire Lumens: 15557.3 lumens  
Efficiency: N/A  
Efficacy: 97.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 159.2  
Input Voltage (V): 120  
Input Current (Ain): 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

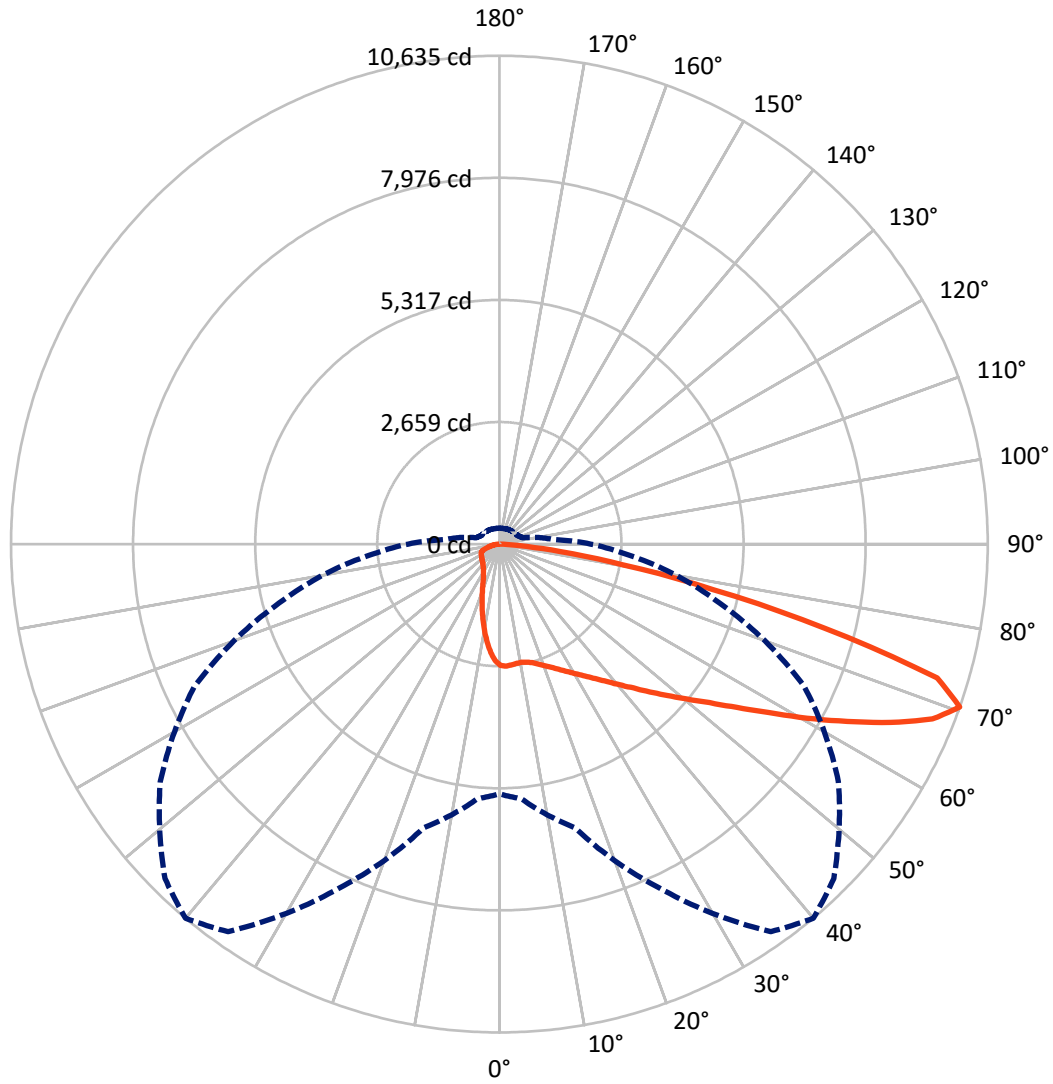
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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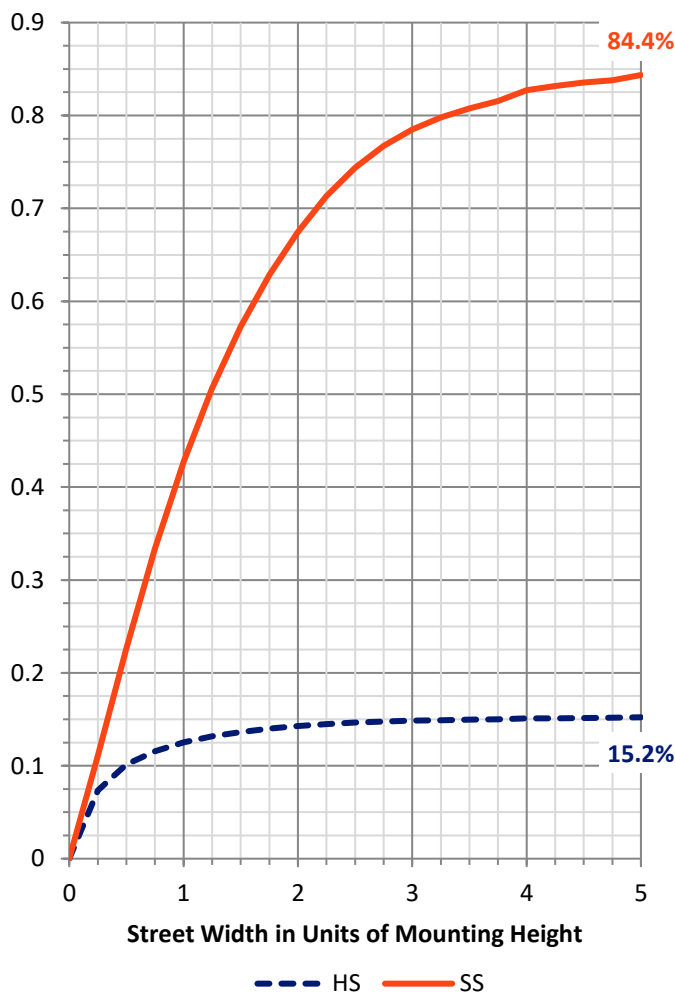
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2396.2	0.0	2396.2
	% Fixture	15.4	0.0	15.4
<b>Street Side</b>	Lumens	13161.1	0.0	13161.1
	% Fixture	84.6	0.0	84.6
<b>Total</b>	Lumens	15557.3	0.0	15557.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	233.4	1.5
10°-20°	608.3	3.9
20°-30°	955.2	6.1
30°-40°	1436.1	9.2
40°-50°	2216.7	14.2
50°-60°	3292.0	21.2
60°-70°	4149.5	26.7
70°-80°	2399.7	15.4
80°-90°	266.3	1.7
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°	15557.3	100.0
0°-180°	15557.3	100.0

**Coefficient of Utilization**



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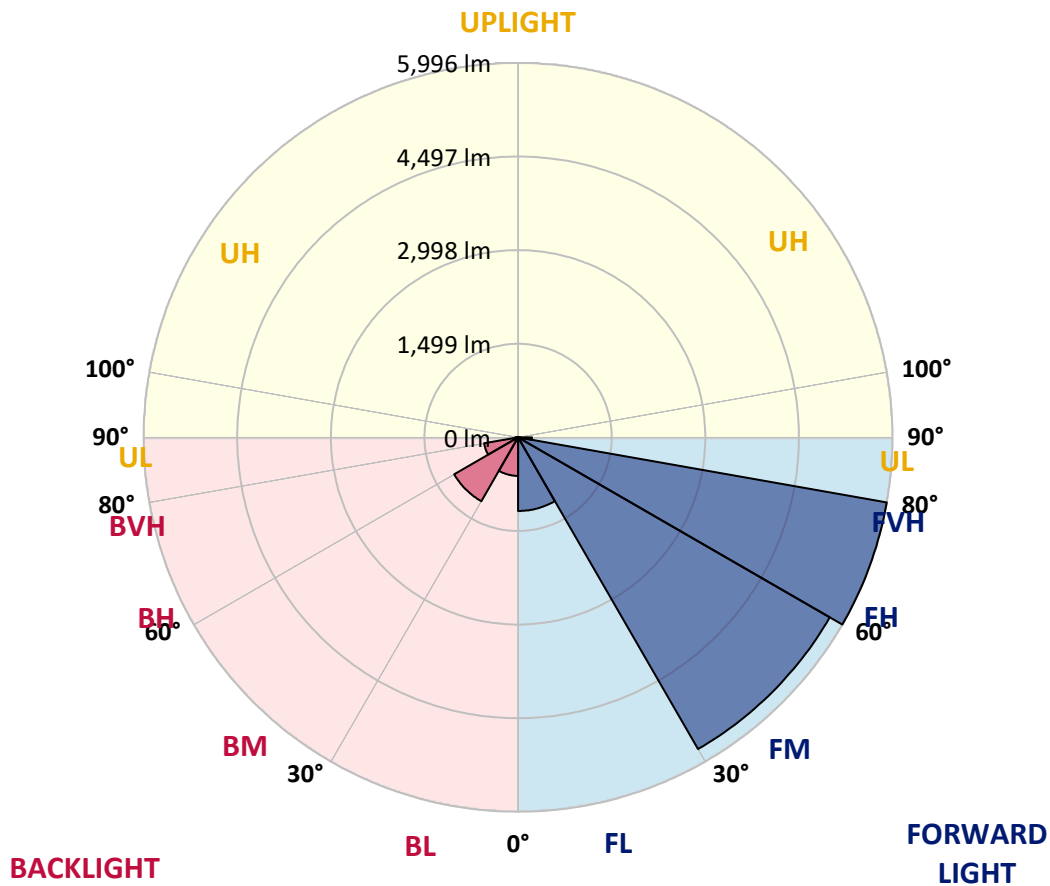
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1179.4	7.6			
FM (30°-60°)	5763.8	37.0			
FH (60°-80°)	5996.1	38.5			G3/7500
FVH (80°-90°)	221.8	1.4			G2/225
BL (0°-30°)	617.5	4.0	B2/1000		
BM (30°-60°)	1181.1	7.6	B2/2500		
BH (60°-80°)	553.1	3.6	B2/1000		G2/1000
BVH (80°-90°)	44.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

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

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	2641.8	2641.8	2641.8	2641.8	2641.8	2641.8	2641.8	2641.8	2641.8	2641.8	2641.8
2.5°	2658.1	2662.7	2666.2	2670.8	2668.5	2661.5	2667.4	2667.4	2654.6	2640.6	2627.9
5°	2661.5	2667.4	2666.2	2665.0	2655.7	2644.1	2644.1	2637.2	2615.1	2593.0	2572.1
7.5°	2654.6	2653.4	2652.3	2648.8	2638.3	2625.6	2623.2	2609.3	2580.3	2550.1	2519.9
10°	2623.2	2622.1	2625.6	2633.7	2631.4	2619.7	2619.7	2607.0	2573.3	2536.1	2496.7
12.5°	2597.7	2597.7	2611.6	2633.7	2641.8	2637.2	2638.3	2629.0	2590.7	2546.6	2500.1
15°	2601.2	2602.3	2632.5	2668.5	2683.6	2680.1	2681.3	2670.8	2627.9	2583.7	2521.0
17.5°	2624.4	2630.2	2682.5	2732.4	2752.1	2747.5	2739.4	2721.9	2673.2	2623.2	2546.6
20°	2673.2	2682.5	2749.8	2812.5	2835.7	2825.3	2811.3	2776.5	2723.1	2668.5	2574.5
22.5°	2769.5	2775.3	2849.7	2911.2	2929.8	2917.0	2889.2	2839.2	2777.7	2720.8	2608.1
25°	2905.4	2912.4	2983.2	3040.1	3035.5	3020.4	2982.0	2920.5	2847.3	2787.0	2656.9
27.5°	3066.8	3078.4	3148.1	3193.4	3163.2	3141.1	3098.2	3023.9	2941.4	2886.8	2731.2
30°	3243.3	3248.0	3307.2	3352.5	3306.0	3275.8	3223.6	3143.5	3069.1	3028.5	2842.7
32.5°	3414.0	3418.7	3469.8	3495.3	3446.5	3424.5	3379.2	3294.4	3242.2	3220.1	3008.8
35°	3594.0	3592.9	3634.7	3656.7	3606.8	3597.5	3551.1	3486.0	3476.7	3505.8	3251.5
37.5°	3774.0	3763.6	3785.6	3814.7	3786.8	3796.1	3765.9	3743.8	3779.8	3855.3	3574.3
40°	3918.0	3918.0	3941.2	3977.2	3986.5	4027.2	4009.7	4038.8	4154.9	4334.9	3973.7
42.5°	4045.7	4046.9	4095.7	4151.4	4218.8	4281.5	4295.4	4370.9	4611.3	4893.4	4475.4
45°	4179.3	4180.4	4246.6	4327.9	4470.8	4590.4	4618.2	4787.8	5131.5	5475.2	5020.0
47.5°	4333.7	4321.0	4412.7	4548.6	4751.8	4923.6	4995.6	5236.0	5670.3	6093.0	5533.3
50°	4507.9	4481.2	4583.4	4818.0	5068.8	5304.5	5425.3	5700.5	6248.6	6663.2	6016.4
52.5°	4704.2	4689.1	4795.9	5081.6	5464.8	5736.5	5900.2	6261.4	6810.6	7231.0	6399.6
55°	4948.0	4912.0	5066.5	5429.9	5929.3	6275.3	6469.2	6816.4	7424.9	7746.6	6692.2
57.5°	5215.1	5175.6	5382.3	5865.4	6533.1	6912.8	7155.5	7441.2	8003.2	8141.4	6864.1
60°	5503.1	5490.3	5735.3	6376.3	7253.1	7694.3	7869.7	8128.6	8506.0	8370.2	6821.1
62.5°	5766.7	5762.0	6118.5	6930.2	8016.0	8501.4	8640.7	8709.3	8868.3	8355.1	6479.7
65°	6044.2	6083.7	6565.6	7572.4	8890.4	9366.5	9424.6	9250.4	8990.3	7959.1	5780.6
67.5°	6079.1	6155.7	6846.6	8173.9	9719.5	10168.9	10122.5	9455.9	8630.3	6857.1	4531.1
70°	5436.9	5570.4	6398.4	8265.7	10303.6	10634.6	10299.0	9013.5	7323.9	4967.8	2849.7
72.5°	4542.7	4657.7	5389.3	7048.7	9550.0	9971.5	9517.5	7629.3	5175.6	2849.7	1451.5
75°	3536.0	3669.5	4344.2	5603.0	7149.7	7318.1	7090.5	5320.8	2845.0	1175.2	659.6
77.5°	2157.6	2254.0	2778.8	3796.1	5002.6	4750.6	4026.0	2983.2	1248.3	563.2	407.6
80°	954.5	1013.8	1369.1	2039.1	2890.3	2732.4	2154.1	1273.9	682.8	357.7	284.5
82.5°	512.1	550.4	674.7	807.1	1269.2	1327.3	1076.5	733.9	367.0	204.4	162.6
85°	225.3	247.3	306.6	292.6	416.9	409.9	413.4	504.0	175.3	94.1	105.7
87.5°	0.0	0.0	0.0	0.0	1.2	1.2	12.8	67.4	17.4	27.9	24.4
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°	2641.8	2641.8	2641.8	2641.8	2641.8	2641.8	2641.8	2641.8	2641.8	2641.8	2641.8
2.5°	2613.9	2593.0	2587.2	2580.3	2567.5	2545.4	2529.2	2510.6	2502.5	2493.2	2494.3
5°	2548.9	2523.4	2499.0	2467.6	2428.1	2384.0	2353.8	2319.0	2300.4	2283.0	2287.6
7.5°	2493.2	2453.7	2403.8	2337.6	2266.7	2187.8	2123.9	2074.0	2040.3	2017.1	2028.7
10°	2458.3	2411.9	2324.8	2216.8	2097.2	1976.4	1884.7	1798.8	1745.3	1703.5	1701.2
12.5°	2451.4	2391.0	2264.4	2107.6	1934.6	1773.2	1638.5	1522.4	1451.5	1399.3	1419.0
15°	2458.3	2381.7	2212.2	2006.6	1788.3	1570.0	1402.8	1269.2	1184.5	1136.8	1133.4
17.5°	2466.5	2372.4	2152.9	1897.5	1635.0	1385.4	1191.4	1049.8	962.7	915.1	916.2
20°	2473.4	2358.5	2083.3	1777.8	1479.4	1213.5	1012.6	877.9	800.1	765.3	771.1
22.5°	2485.0	2344.5	2008.9	1650.1	1320.3	1047.4	870.9	761.8	715.3	692.1	693.3
25°	2507.1	2336.4	1932.3	1510.8	1163.6	915.1	773.4	700.2	671.2	657.3	656.1
27.5°	2552.4	2343.4	1852.2	1376.1	1021.9	814.0	710.7	663.1	643.3	634.0	632.9
30°	2627.9	2371.2	1782.5	1239.0	900.0	735.1	667.7	638.7	627.1	618.9	617.8
32.5°	2742.8	2423.5	1707.0	1111.3	801.3	677.0	634.0	618.9	610.8	606.2	606.2
35°	2917.0	2518.7	1632.7	999.8	724.6	631.7	607.3	601.5	594.6	592.2	594.6
37.5°	3167.8	2670.8	1565.3	902.3	670.0	596.9	578.3	580.6	574.8	578.3	581.8
40°	3486.0	2874.1	1508.4	822.2	629.4	571.3	552.7	560.9	557.4	560.9	566.7
42.5°	3889.0	3126.0	1465.5	759.4	600.4	550.4	533.0	541.1	538.8	543.5	549.3
45°	4338.4	3458.2	1445.7	715.3	579.5	535.3	516.7	522.6	520.2	523.7	529.5
47.5°	4769.2	3760.1	1463.2	689.8	562.0	522.6	502.8	505.1	504.0	502.8	506.3
50°	5140.8	4000.5	1513.1	681.6	550.4	509.8	491.2	492.4	488.9	481.9	484.2
52.5°	5443.9	4193.2	1543.3	681.6	544.6	495.8	478.4	479.6	472.6	463.3	464.5
55°	5643.6	4271.0	1518.9	680.5	542.3	484.2	465.7	466.8	459.8	448.2	449.4
57.5°	5700.5	4195.5	1416.7	667.7	540.0	474.9	452.9	455.2	450.6	437.8	437.8
60°	5541.4	3919.2	1229.7	638.7	534.2	469.1	443.6	447.1	444.8	432.0	432.0
62.5°	5124.5	3428.0	1006.8	594.6	517.9	462.2	435.5	442.4	448.2	441.3	440.1
65°	4344.2	2746.3	818.7	545.8	497.0	450.6	423.9	441.3	454.0	463.3	463.3
67.5°	3259.6	1966.0	667.7	494.7	465.7	427.3	408.8	425.0	434.3	440.1	443.6
70°	1986.9	1156.6	526.0	435.5	420.4	392.5	378.6	362.3	349.5	347.2	348.4
72.5°	972.0	661.9	427.3	370.4	358.8	333.3	301.9	295.0	289.1	285.7	284.5
75°	535.3	461.0	353.0	307.7	286.8	255.5	248.5	236.9	234.6	229.9	231.1
77.5°	378.6	363.5	291.5	249.7	218.3	202.1	205.5	197.4	197.4	193.9	192.8
80°	284.5	285.7	224.1	182.3	161.4	155.6	159.1	159.1	156.8	155.6	154.4
82.5°	180.0	203.2	151.0	117.3	115.0	116.1	115.0	113.8	116.1	112.6	111.5
85°	124.3	146.3	91.7	69.7	69.7	68.5	70.8	69.7	72.0	68.5	68.5
87.5°	27.9	65.0	33.7	20.9	22.1	20.9	22.1	23.2	25.5	26.7	26.7
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)