

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: P639193

Luminaire Tested: GWS-SA5B-735-U-SL4-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639193  
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-SA5B-735-U-SL4-W  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS  
Light Source: (80) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

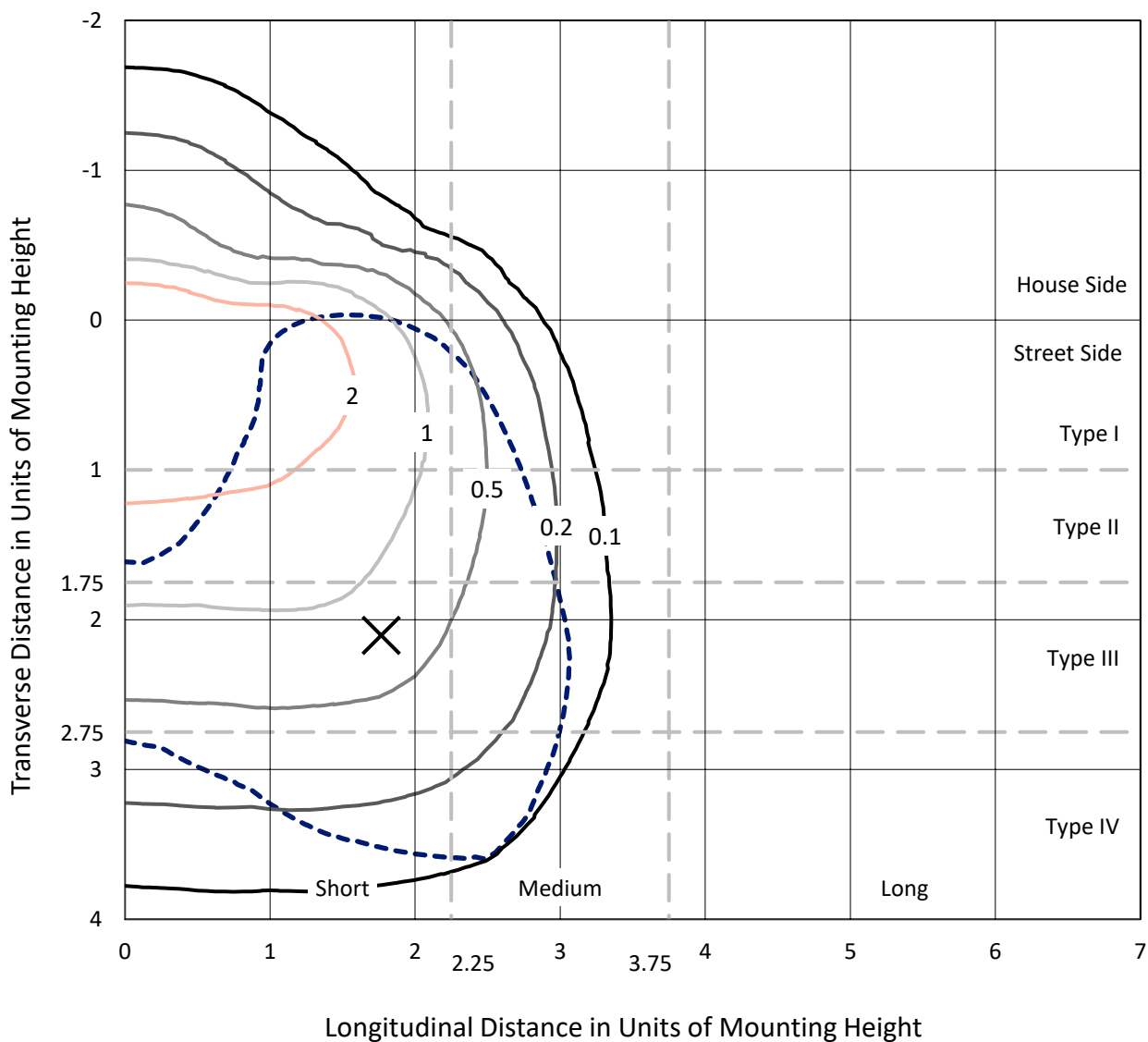
Lumens per Lamp: N/A  
Luminaire Lumens: 16818.8 lumens  
Efficiency: N/A  
Efficacy: 145.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 115.7  
Input Voltage (V): 120  
Input Current (Ain): 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

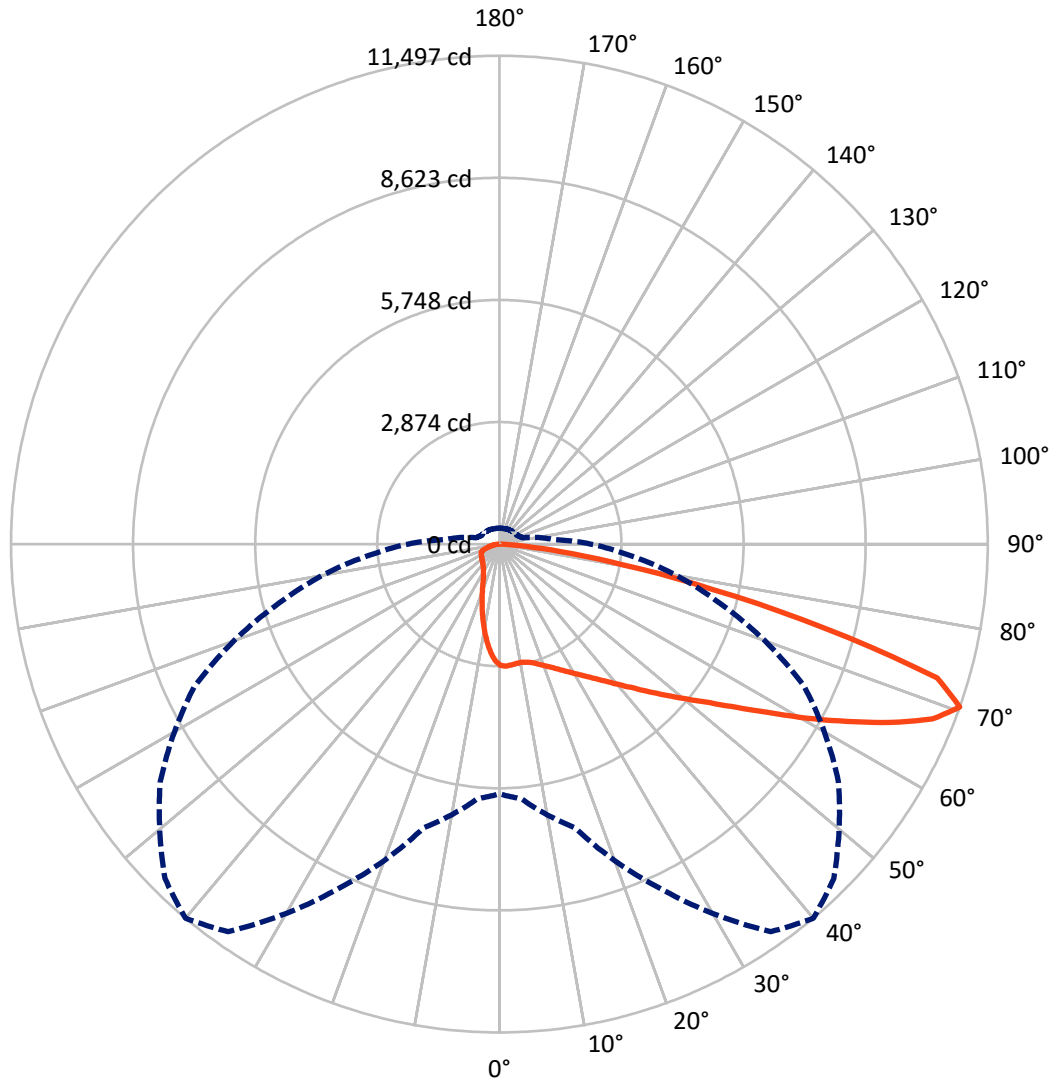
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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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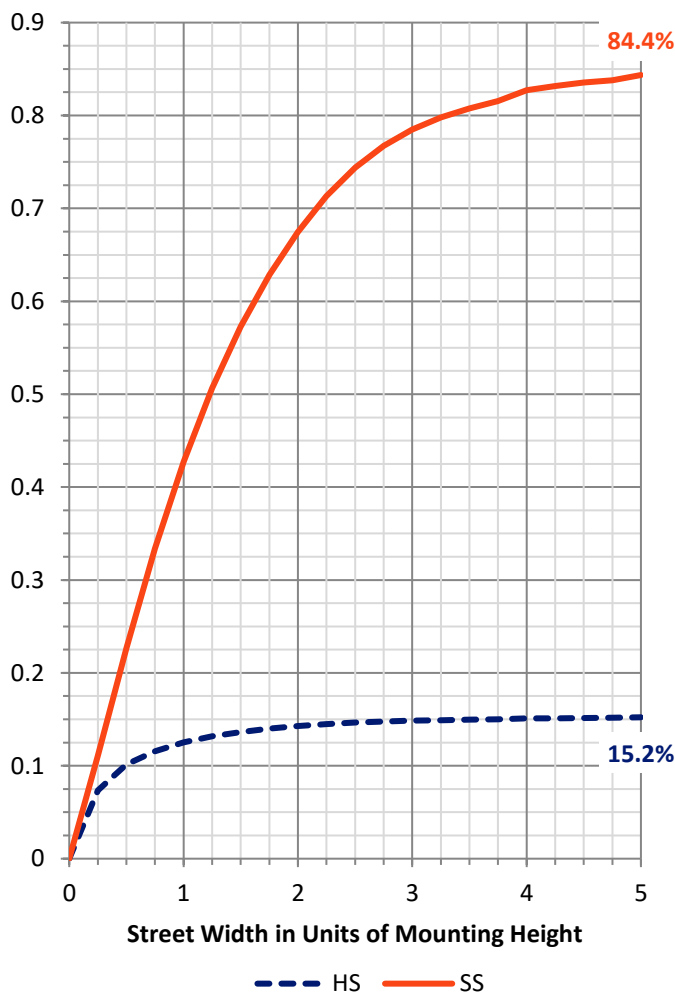
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2590.5	0.0	2590.5
	% Fixture	15.4	0.0	15.4
<b>Street Side</b>	Lumens	14228.3	0.0	14228.3
	% Fixture	84.6	0.0	84.6
<b>Total</b>	Lumens	16818.8	0.0	16818.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	252.3	1.5
10°-20°	657.7	3.9
20°-30°	1032.6	6.1
30°-40°	1552.6	9.2
40°-50°	2396.5	14.2
50°-60°	3559.0	21.2
60°-70°	4486.0	26.7
70°-80°	2594.2	15.4
80°-90°	287.9	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°	16818.8	100.0
0°-180°	16818.8	100.0

**Coefficient of Utilization**



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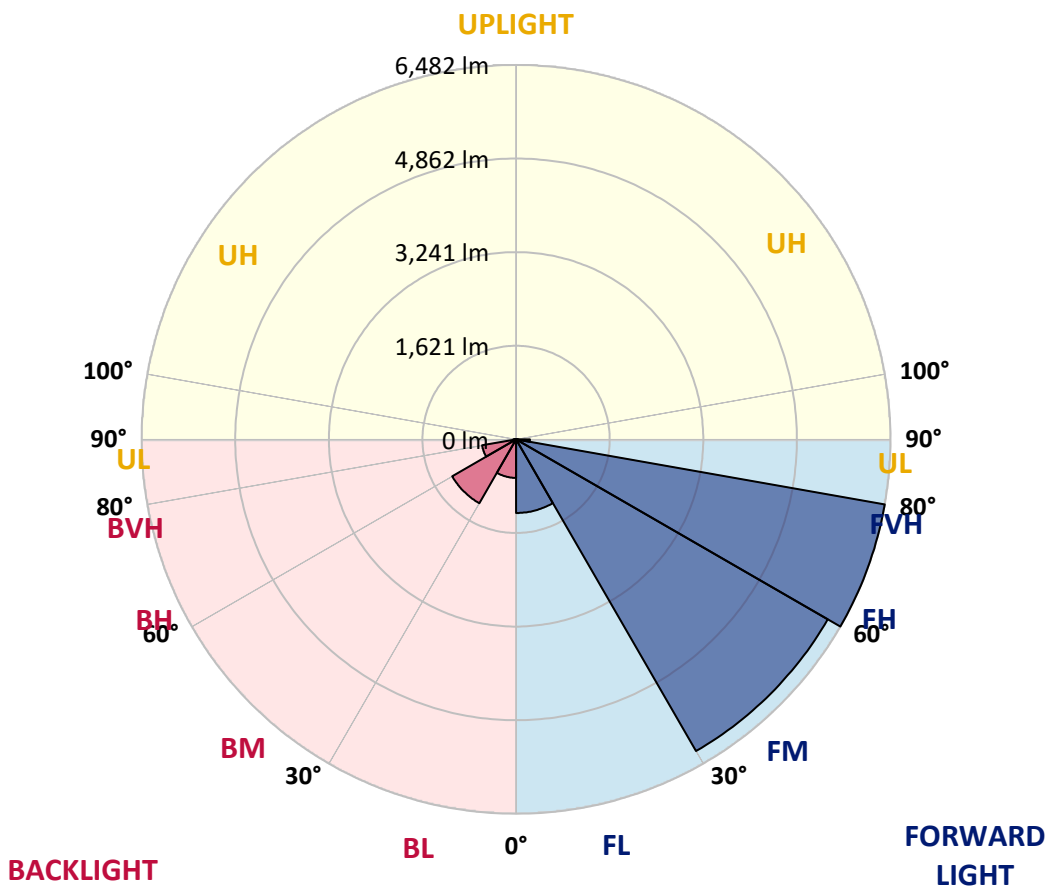
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1275.0	7.6			
FM (30°-60°)	6231.2	37.0			
FH (60°-80°)	6482.4	38.5			G3/7500
FVH (80°-90°)	239.8	1.4			G3/500
BL (0°-30°)	667.6	4.0	B2/1000		
BM (30°-60°)	1276.9	7.6	B2/2500		
BH (60°-80°)	597.9	3.6	B2/1000		G2/1000
BVH (80°-90°)	48.1	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0 <td></td> <td>U0/0</td> <td></td>		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°	2856.0	2856.0	2856.0	2856.0	2856.0	2856.0	2856.0	2856.0	2856.0	2856.0	2856.0
2.5°	2873.6	2878.6	2882.4	2887.4	2884.9	2877.4	2883.6	2883.6	2869.8	2854.8	2841.0
5°	2877.4	2883.6	2882.4	2881.1	2871.1	2858.5	2858.5	2851.0	2827.2	2803.3	2780.7
7.5°	2869.8	2868.6	2867.3	2863.6	2852.3	2838.4	2835.9	2820.9	2789.5	2756.8	2724.2
10°	2835.9	2834.7	2838.4	2847.2	2844.7	2832.2	2832.2	2818.4	2782.0	2741.8	2699.1
12.5°	2808.3	2808.3	2823.4	2847.2	2856.0	2851.0	2852.3	2842.2	2800.8	2753.1	2702.9
15°	2812.1	2813.3	2846.0	2884.9	2901.2	2897.5	2898.7	2887.4	2841.0	2793.3	2725.5
17.5°	2837.2	2843.5	2900.0	2953.9	2975.3	2970.3	2961.5	2942.6	2889.9	2835.9	2753.1
20°	2889.9	2900.0	2972.8	3040.6	3065.7	3054.4	3039.3	3001.7	2943.9	2884.9	2783.2
22.5°	2994.1	3000.4	3080.7	3147.3	3167.4	3153.6	3123.4	3069.4	3002.9	2941.4	2819.6
25°	3141.0	3148.5	3225.1	3286.6	3281.6	3265.3	3223.9	3157.3	3078.2	3012.9	2872.3
27.5°	3315.5	3328.1	3403.4	3452.3	3419.7	3395.8	3349.4	3269.1	3179.9	3120.9	2952.7
30°	3506.3	3511.3	3575.4	3624.3	3574.1	3541.5	3485.0	3398.4	3318.0	3274.1	3073.2
32.5°	3690.9	3695.9	3751.1	3778.7	3726.0	3702.2	3653.2	3561.6	3505.1	3481.2	3252.7
35°	3885.4	3884.2	3929.4	3953.2	3899.3	3889.2	3839.0	3768.7	3758.7	3790.0	3515.1
37.5°	4080.0	4068.7	4092.6	4124.0	4093.8	4103.9	4071.2	4047.4	4086.3	4167.9	3864.1
40°	4235.7	4235.7	4260.8	4299.7	4309.8	4353.7	4334.9	4366.3	4491.8	4686.4	4296.0
42.5°	4373.8	4375.1	4427.8	4488.0	4560.9	4628.6	4643.7	4725.3	4985.2	5290.2	4838.3
45°	4518.2	4519.4	4591.0	4678.9	4833.3	4962.6	4992.7	5176.0	5547.6	5919.2	5427.1
47.5°	4685.1	4671.3	4770.5	4917.4	5137.1	5322.9	5400.7	5660.6	6130.1	6587.1	5982.0
50°	4873.4	4844.6	4955.0	5208.6	5479.8	5734.6	5865.2	6162.7	6755.3	7203.5	6504.2
52.5°	5085.6	5069.3	5184.8	5493.6	5907.9	6201.7	6378.7	6769.1	7362.9	7817.3	6918.5
55°	5349.2	5310.3	5477.3	5870.2	6410.1	6784.2	6993.8	7369.2	8027.0	8374.7	7234.8
57.5°	5638.0	5595.3	5818.8	6341.0	7062.9	7473.4	7735.7	8044.6	8652.2	8801.6	7420.6
60°	5949.3	5935.5	6200.4	6893.4	7841.2	8318.3	8507.8	8787.8	9195.8	9048.9	7374.2
62.5°	6234.3	6229.3	6614.7	7492.2	8666.0	9190.8	9341.4	9415.5	9587.5	9032.6	7005.1
65°	6534.3	6577.0	7098.0	8186.4	9611.3	10126.0	10188.8	10000.5	9719.3	8604.5	6249.4
67.5°	6572.0	6654.9	7401.8	8836.7	10507.7	10993.5	10943.3	10222.7	9330.1	7413.1	4898.6
70°	5877.8	6022.1	6917.2	8935.9	11139.1	11496.9	11134.1	9744.4	7917.8	5370.6	3080.7
72.5°	4911.1	5035.4	5826.3	7620.3	10324.4	10780.1	10289.2	8247.9	5595.3	3080.7	1569.2
75°	3822.7	3967.1	4696.4	6057.3	7729.5	7911.5	7665.4	5752.2	3075.7	1270.5	713.1
77.5°	2332.5	2436.7	3004.2	4103.9	5408.2	5135.8	4352.5	3225.1	1349.6	608.9	440.6
80°	1031.9	1096.0	1480.1	2204.5	3124.7	2953.9	2328.8	1377.2	738.2	386.7	307.6
82.5°	553.6	595.1	729.4	872.5	1372.1	1434.9	1163.8	793.4	396.7	220.9	175.8
85°	243.5	267.4	331.4	316.4	450.7	443.2	446.9	544.8	189.6	101.7	114.2
87.5°	0.0	0.0	0.0	0.0	1.3	1.3	13.8	72.8	18.8	30.1	26.4
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°	2856.0	2856.0	2856.0	2856.0	2856.0	2856.0	2856.0	2856.0	2856.0	2856.0	2856.0
2.5°	2825.9	2803.3	2797.0	2789.5	2775.7	2751.8	2734.3	2714.2	2705.4	2695.3	2696.6
5°	2755.6	2728.0	2701.6	2667.7	2625.0	2577.3	2544.7	2507.0	2486.9	2468.1	2473.1
7.5°	2695.3	2652.7	2598.7	2527.1	2450.5	2365.2	2296.1	2242.1	2205.7	2180.6	2193.2
10°	2657.7	2607.5	2513.3	2396.6	2267.2	2136.7	2037.5	1944.6	1886.9	1841.7	1839.2
12.5°	2650.1	2584.9	2448.0	2278.5	2091.5	1917.0	1771.4	1645.8	1569.2	1512.8	1534.1
15°	2657.7	2574.8	2391.5	2169.3	1933.3	1697.3	1516.5	1372.1	1280.5	1229.0	1225.3
17.5°	2666.5	2564.8	2327.5	2051.3	1767.6	1497.7	1288.0	1134.9	1040.7	989.3	990.5
20°	2674.0	2549.7	2252.2	1922.0	1599.4	1311.9	1094.7	949.1	865.0	827.3	833.6
22.5°	2686.5	2534.6	2171.8	1783.9	1427.4	1132.4	941.5	823.5	773.3	748.2	749.5
25°	2710.4	2525.9	2089.0	1633.3	1257.9	989.3	836.1	757.0	725.6	710.6	709.3
27.5°	2759.4	2533.4	2002.4	1487.6	1104.7	880.0	768.3	716.8	695.5	685.4	684.2
30°	2841.0	2563.5	1927.0	1339.5	972.9	794.7	721.9	690.5	677.9	669.1	667.9
32.5°	2965.2	2620.0	1845.4	1201.4	866.2	731.9	685.4	669.1	660.3	655.3	655.3
35°	3153.6	2723.0	1765.1	1080.9	783.4	682.9	656.6	650.3	642.8	640.3	642.8
37.5°	3424.7	2887.4	1692.3	975.4	724.4	645.3	625.2	627.7	621.4	625.2	629.0
40°	3768.7	3107.1	1630.8	888.8	680.4	617.7	597.6	606.4	602.6	606.4	612.6
42.5°	4204.3	3379.5	1584.3	821.0	649.0	595.1	576.2	585.0	582.5	587.5	593.8
45°	4690.2	3738.6	1563.0	773.3	626.4	578.7	558.7	564.9	562.4	566.2	572.5
47.5°	5155.9	4065.0	1581.8	745.7	607.6	564.9	543.6	546.1	544.8	543.6	547.4
50°	5557.6	4324.8	1635.8	736.9	595.1	551.1	531.0	532.3	528.5	521.0	523.5
52.5°	5885.3	4533.2	1668.4	736.9	588.8	536.1	517.2	518.5	510.9	500.9	502.2
55°	6101.2	4617.3	1642.1	735.7	586.3	523.5	503.4	504.7	497.1	484.6	485.8
57.5°	6162.7	4535.7	1531.6	721.9	583.8	513.5	489.6	492.1	487.1	473.3	473.3
60°	5990.7	4237.0	1329.5	690.5	577.5	507.2	479.6	483.3	480.8	467.0	467.0
62.5°	5540.1	3705.9	1088.4	642.8	559.9	499.6	470.8	478.3	484.6	477.1	475.8
65°	4696.4	2969.0	885.1	590.0	537.3	487.1	458.2	477.1	490.9	500.9	500.9
67.5°	3523.9	2125.4	721.9	534.8	503.4	462.0	441.9	459.5	469.5	475.8	479.6
70°	2148.0	1250.4	568.7	470.8	454.5	424.3	409.3	391.7	377.9	375.4	376.6
72.5°	1050.8	715.6	462.0	400.5	387.9	360.3	326.4	318.9	312.6	308.8	307.6
75°	578.7	498.4	381.6	332.7	310.1	276.2	268.7	256.1	253.6	248.6	249.8
77.5°	409.3	392.9	315.1	269.9	236.0	218.4	222.2	213.4	213.4	209.7	208.4
80°	307.6	308.8	242.3	197.1	174.5	168.2	172.0	172.0	169.5	168.2	167.0
82.5°	194.6	219.7	163.2	126.8	124.3	125.5	124.3	123.0	125.5	121.8	120.5
85°	134.3	158.2	99.2	75.3	75.3	74.1	76.6	75.3	77.8	74.1	74.1
87.5°	30.1	70.3	36.4	22.6	23.9	22.6	23.9	25.1	27.6	28.9	28.9
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)