

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: P639358

Luminaire Tested: GWS-SA5B-760-U-SL4-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639358  
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-760-U-SL4-W  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS  
Light Source: (80) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17204.3 lumens  
Efficiency: N/A  
Efficacy: 148.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type 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

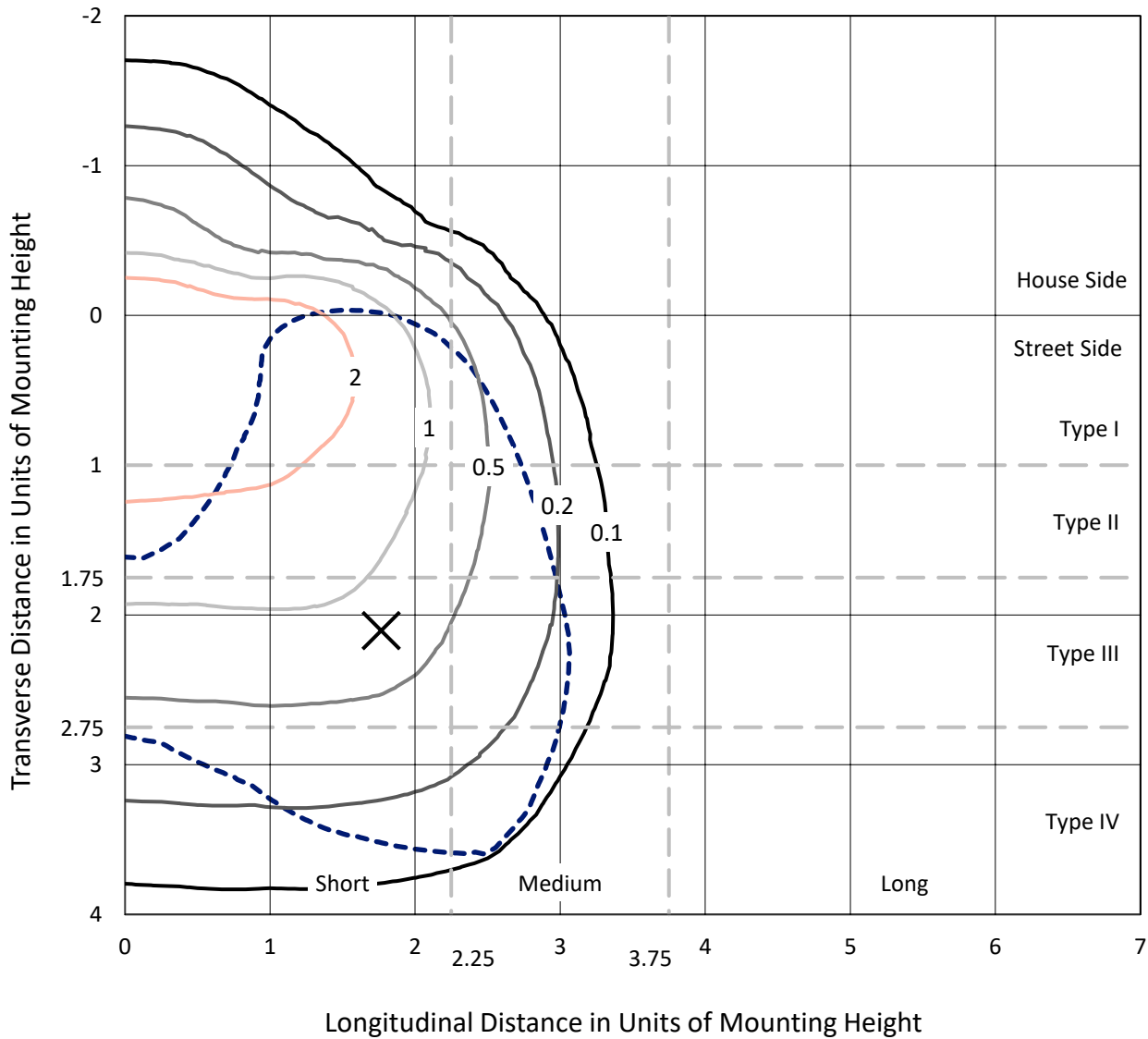


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### Iso-Footcandle Lines of Horizontal Illumination

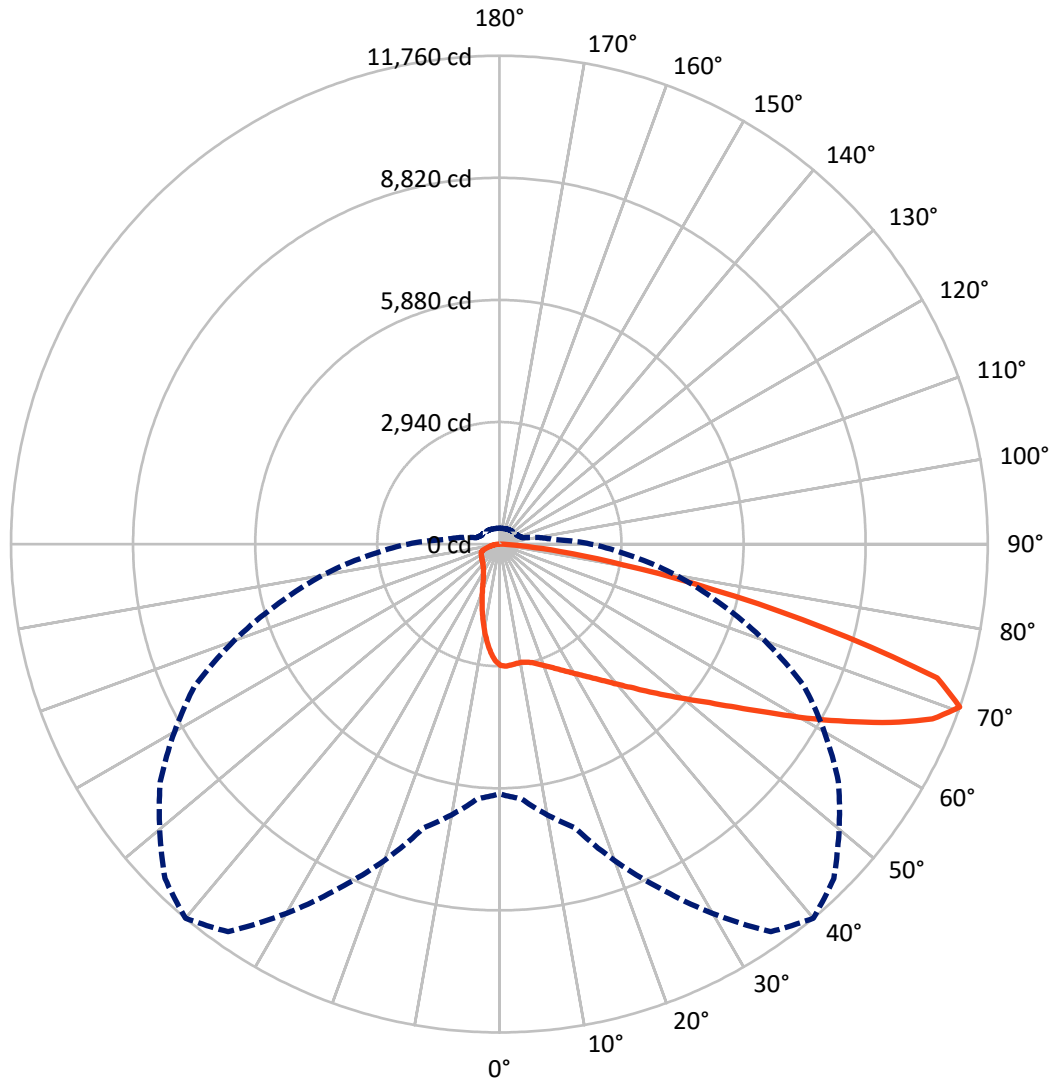
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 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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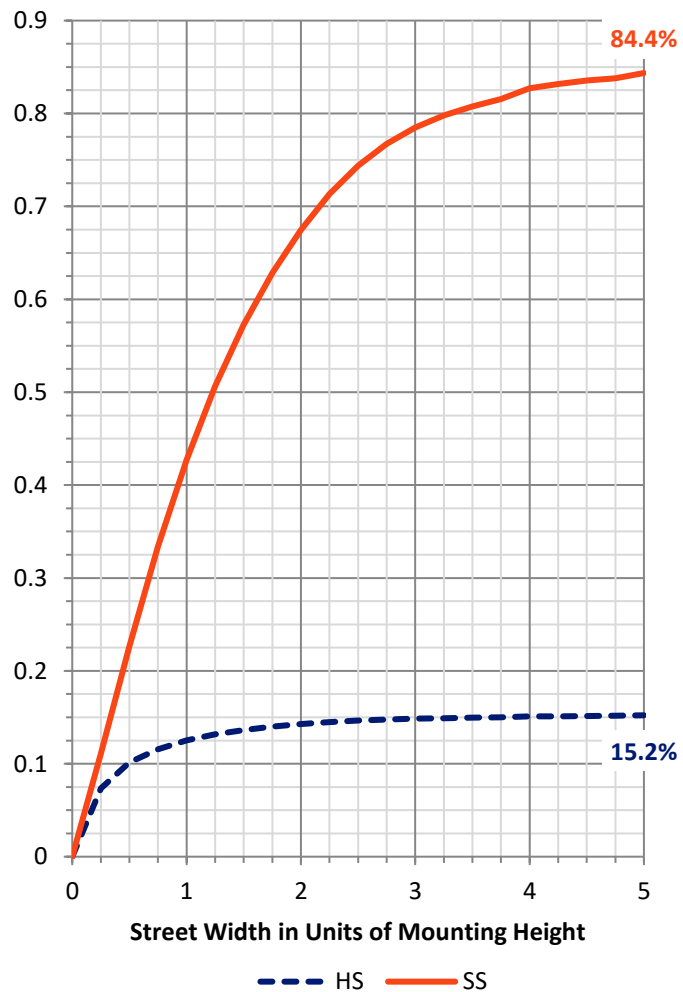
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2649.9	0.0	2649.9
	% Fixture	15.4	0.0	15.4
<b>Street Side</b>	Lumens	14554.4	0.0	14554.4
	% Fixture	84.6	0.0	84.6
<b>Total</b>	Lumens	17204.3	0.0	17204.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	258.1	1.5
10°-20°	672.7	3.9
20°-30°	1056.3	6.1
30°-40°	1588.2	9.2
40°-50°	2451.4	14.2
50°-60°	3640.5	21.2
60°-70°	4588.8	26.7
70°-80°	2653.7	15.4
80°-90°	294.5	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°	17204.3	100.0
0°-180°	17204.3	100.0

**Coefficient of Utilization**



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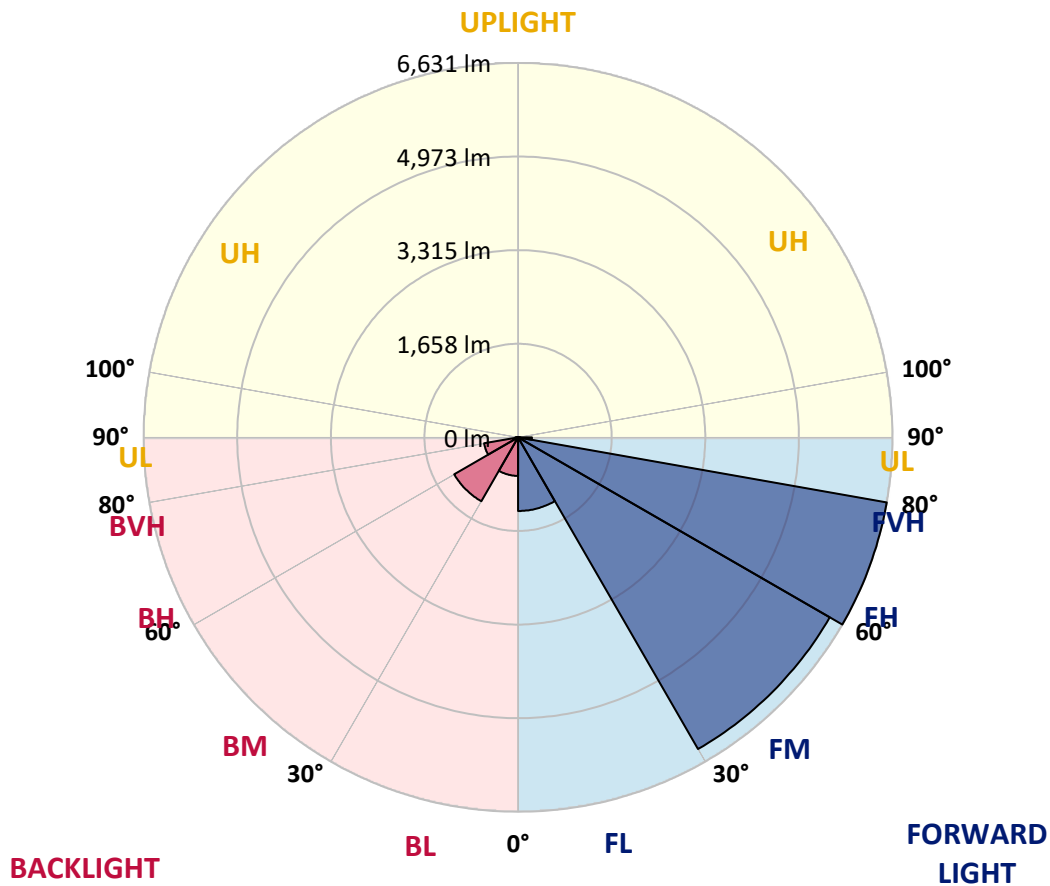
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1304.2	7.6			
FM (30°-60°)	6374.0	37.0			
FH (60°-80°)	6630.9	38.5			G3/7500
FVH (80°-90°)	245.3	1.4			G3/500
BL (0°-30°)	682.9	4.0	B2/1000		
BM (30°-60°)	1306.2	7.6	B2/2500		
BH (60°-80°)	611.6	3.6	B2/1000		G2/1000
BVH (80°-90°)	49.2	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°	2921.5	2921.5	2921.5	2921.5	2921.5	2921.5	2921.5	2921.5	2921.5	2921.5	2921.5
2.5°	2939.5	2944.6	2948.5	2953.6	2951.0	2943.3	2949.7	2949.7	2935.6	2920.2	2906.1
5°	2943.3	2949.7	2948.5	2947.2	2936.9	2924.1	2924.1	2916.4	2892.0	2867.6	2844.4
7.5°	2935.6	2934.3	2933.0	2929.2	2917.6	2903.5	2900.9	2885.5	2853.4	2820.0	2786.6
10°	2900.9	2899.7	2903.5	2912.5	2909.9	2897.1	2897.1	2883.0	2845.7	2804.6	2761.0
12.5°	2872.7	2872.7	2888.1	2912.5	2921.5	2916.4	2917.6	2907.4	2865.0	2816.2	2764.8
15°	2876.5	2877.8	2911.2	2951.0	2967.7	2963.9	2965.1	2953.6	2906.1	2857.3	2787.9
17.5°	2902.2	2908.6	2966.4	3021.7	3043.5	3038.3	3029.4	3010.1	2956.2	2900.9	2816.2
20°	2956.2	2966.4	3040.9	3110.3	3135.9	3124.4	3109.0	3070.5	3011.4	2951.0	2847.0
22.5°	3062.7	3069.2	3151.4	3219.4	3240.0	3225.8	3195.0	3139.8	3071.7	3008.8	2884.2
25°	3213.0	3220.7	3299.0	3362.0	3356.8	3340.1	3297.7	3229.7	3148.8	3082.0	2938.2
27.5°	3391.5	3404.3	3481.4	3531.5	3498.1	3473.7	3426.2	3344.0	3252.8	3192.4	3020.4
30°	3586.7	3591.8	3657.3	3707.4	3656.0	3622.6	3564.9	3476.2	3394.1	3349.1	3143.6
32.5°	3775.5	3780.6	3837.1	3865.4	3811.4	3787.0	3736.9	3643.2	3585.4	3561.0	3327.3
35°	3974.5	3973.2	4019.5	4043.9	3988.6	3978.4	3927.0	3855.1	3844.8	3876.9	3595.7
37.5°	4173.6	4162.0	4186.4	4218.5	4187.7	4198.0	4164.6	4140.2	4180.0	4263.4	3952.7
40°	4332.8	4332.8	4358.5	4398.3	4408.6	4453.5	4434.2	4466.3	4594.8	4793.8	4394.4
42.5°	4474.0	4475.3	4529.3	4590.9	4665.4	4734.7	4750.1	4833.6	5099.4	5411.5	4949.2
45°	4621.7	4623.0	4696.2	4786.1	4944.1	5076.3	5107.1	5294.6	5674.7	6054.9	5551.5
47.5°	4792.5	4778.4	4879.8	5030.1	5254.8	5444.9	5524.5	5790.3	6270.6	6738.0	6119.1
50°	4985.1	4955.6	5068.6	5328.0	5605.4	5866.1	5999.6	6304.0	6910.1	7368.6	6653.3
52.5°	5202.2	5185.5	5303.6	5619.5	6043.3	6343.8	6524.9	6924.2	7531.7	7996.5	7077.1
55°	5471.8	5432.0	5602.8	6004.8	6557.0	6939.7	7154.1	7538.1	8211.0	8566.7	7400.7
57.5°	5767.2	5723.5	5952.1	6486.3	7224.7	7644.7	7913.1	8229.0	8850.5	9003.3	7590.7
60°	6085.7	6071.6	6342.5	7051.4	8020.9	8508.9	8702.8	8989.2	9406.5	9256.3	7543.2
62.5°	6377.2	6372.1	6766.3	7663.9	8864.6	9401.4	9555.5	9631.3	9807.2	9239.6	7165.7
65°	6684.1	6727.8	7260.7	8374.1	9831.6	10358.1	10422.3	10229.7	9942.0	8801.7	6392.6
67.5°	6722.6	6807.4	7571.5	9039.3	10748.5	11245.5	11194.1	10457.0	9544.0	7583.0	5010.8
70°	6012.5	6160.2	7075.8	9140.7	11394.4	11760.4	11389.3	9967.7	8099.3	5493.7	3151.4
72.5°	5023.7	5150.8	5959.8	7794.9	10561.0	11027.2	10525.1	8437.0	5723.5	3151.4	1605.2
75°	3910.3	4058.0	4804.1	6196.1	7906.6	8092.8	7841.1	5884.1	3146.2	1299.6	729.4
77.5°	2386.0	2492.6	3073.0	4198.0	5532.2	5253.5	4452.2	3299.0	1380.5	622.8	450.7
80°	1055.6	1121.1	1514.0	2255.0	3196.3	3021.7	2382.1	1408.7	755.1	395.5	314.6
82.5°	566.3	608.7	746.1	892.5	1403.6	1467.8	1190.4	811.6	405.8	226.0	179.8
85°	249.1	273.5	339.0	323.6	461.0	453.3	457.2	557.3	193.9	104.0	116.9
87.5°	0.0	0.0	0.0	0.0	1.3	1.3	14.1	74.5	19.3	30.8	27.0
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°	2921.5	2921.5	2921.5	2921.5	2921.5	2921.5	2921.5	2921.5	2921.5	2921.5	2921.5
2.5°	2890.7	2867.6	2861.1	2853.4	2839.3	2814.9	2796.9	2776.4	2767.4	2757.1	2758.4
5°	2818.8	2790.5	2763.5	2728.9	2685.2	2636.4	2603.0	2564.5	2543.9	2524.7	2529.8
7.5°	2757.1	2713.5	2658.2	2585.0	2506.7	2419.4	2348.7	2293.5	2256.3	2230.6	2243.4
10°	2718.6	2667.2	2570.9	2451.5	2319.2	2185.7	2084.2	1989.2	1930.1	1883.9	1881.3
12.5°	2710.9	2644.1	2504.1	2330.8	2139.4	1960.9	1812.0	1683.5	1605.2	1547.4	1569.3
15°	2718.6	2633.8	2446.3	2219.0	1977.6	1736.2	1551.3	1403.6	1309.9	1257.2	1253.4
17.5°	2727.6	2623.6	2380.9	2098.3	1808.1	1532.0	1317.6	1160.9	1064.6	1011.9	1013.2
20°	2735.3	2608.1	2303.8	1966.1	1636.0	1342.0	1119.8	970.8	884.8	846.3	852.7
22.5°	2748.1	2592.7	2221.6	1824.8	1460.1	1158.3	963.1	842.4	791.0	765.4	766.6
25°	2772.5	2583.8	2136.9	1670.7	1286.7	1011.9	855.3	774.4	742.3	726.8	725.6
27.5°	2822.6	2591.5	2048.3	1521.7	1130.1	900.2	785.9	733.3	711.4	701.2	699.9
30°	2906.1	2622.3	1971.2	1370.2	995.2	812.9	738.4	706.3	693.5	684.5	683.2
32.5°	3033.2	2680.1	1887.7	1229.0	886.1	748.7	701.2	684.5	675.5	670.3	670.3
35°	3225.8	2785.4	1805.5	1105.7	801.3	698.6	671.6	665.2	657.5	654.9	657.5
37.5°	3503.2	2953.6	1731.1	997.8	741.0	660.1	639.5	642.1	635.7	639.5	643.4
40°	3855.1	3178.3	1668.1	909.2	696.0	631.8	611.3	620.3	616.4	620.3	626.7
42.5°	4300.7	3457.0	1620.6	839.8	663.9	608.7	589.4	598.4	595.9	601.0	607.4
45°	4797.7	3824.3	1598.8	791.0	640.8	592.0	571.5	577.9	575.3	579.2	585.6
47.5°	5274.1	4158.1	1618.1	762.8	621.5	577.9	556.0	558.6	557.3	556.0	559.9
50°	5685.0	4424.0	1673.3	753.8	608.7	563.8	543.2	544.5	540.6	532.9	535.5
52.5°	6020.2	4637.1	1706.7	753.8	602.3	548.3	529.1	530.4	522.7	512.4	513.7
55°	6241.1	4723.2	1679.7	752.5	599.7	535.5	515.0	516.2	508.5	495.7	497.0
57.5°	6304.0	4639.7	1566.7	738.4	597.1	525.2	500.8	503.4	498.3	484.1	484.1
60°	6128.1	4334.1	1359.9	706.3	590.7	518.8	490.6	494.4	491.8	477.7	477.7
62.5°	5667.0	3790.9	1113.4	657.5	572.7	511.1	481.6	489.3	495.7	488.0	486.7
65°	4804.1	3037.1	905.3	603.6	549.6	498.3	468.7	488.0	502.1	512.4	512.4
67.5°	3604.7	2174.1	738.4	547.1	515.0	472.6	452.0	470.0	480.3	486.7	490.6
70°	2197.2	1279.0	581.7	481.6	464.9	434.0	418.6	400.7	386.5	384.0	385.3
72.5°	1074.9	732.0	472.6	409.7	396.8	368.6	333.9	326.2	319.8	315.9	314.6
75°	592.0	509.8	390.4	340.3	317.2	282.5	274.8	262.0	259.4	254.3	255.5
77.5°	418.6	401.9	322.3	276.1	241.4	223.4	227.3	218.3	218.3	214.5	213.2
80°	314.6	315.9	247.8	201.6	178.5	172.1	175.9	175.9	173.4	172.1	170.8
82.5°	199.0	224.7	166.9	129.7	127.1	128.4	127.1	125.8	128.4	124.6	123.3
85°	137.4	161.8	101.4	77.1	77.1	75.8	78.3	77.1	79.6	75.8	75.8
87.5°	30.8	71.9	37.2	23.1	24.4	23.1	24.4	25.7	28.3	29.5	29.5
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)