

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: P639548

Luminaire Tested: GWS-SA5C-722-U-T3R-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639548  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-15)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5C-722-U-T3R-W  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS  
Light Source: (80) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17831.3 lumens  
Efficiency: N/A  
Efficacy: 113.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 157.5  
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

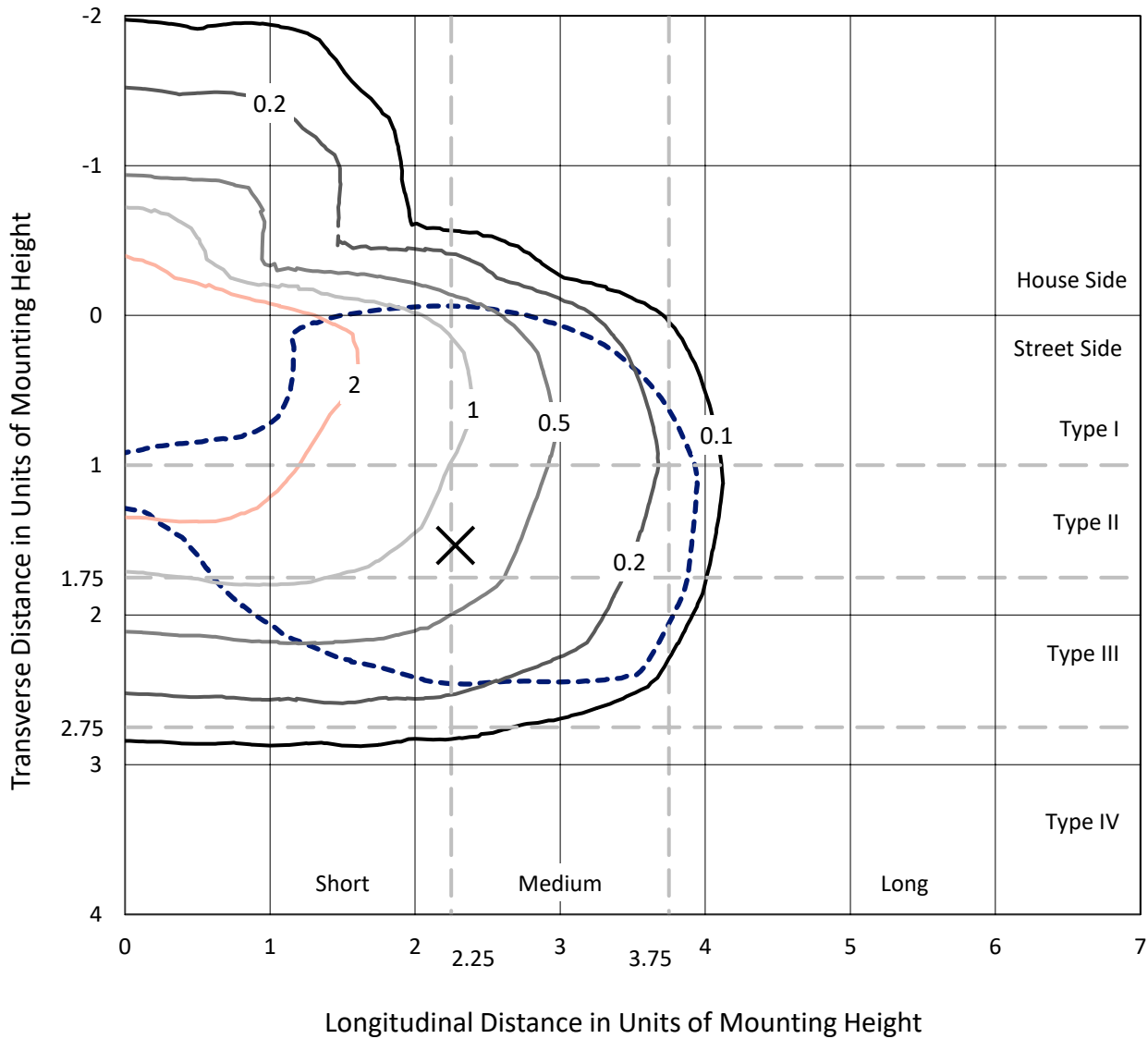


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### Iso-Footcandle Lines of Horizontal Illumination

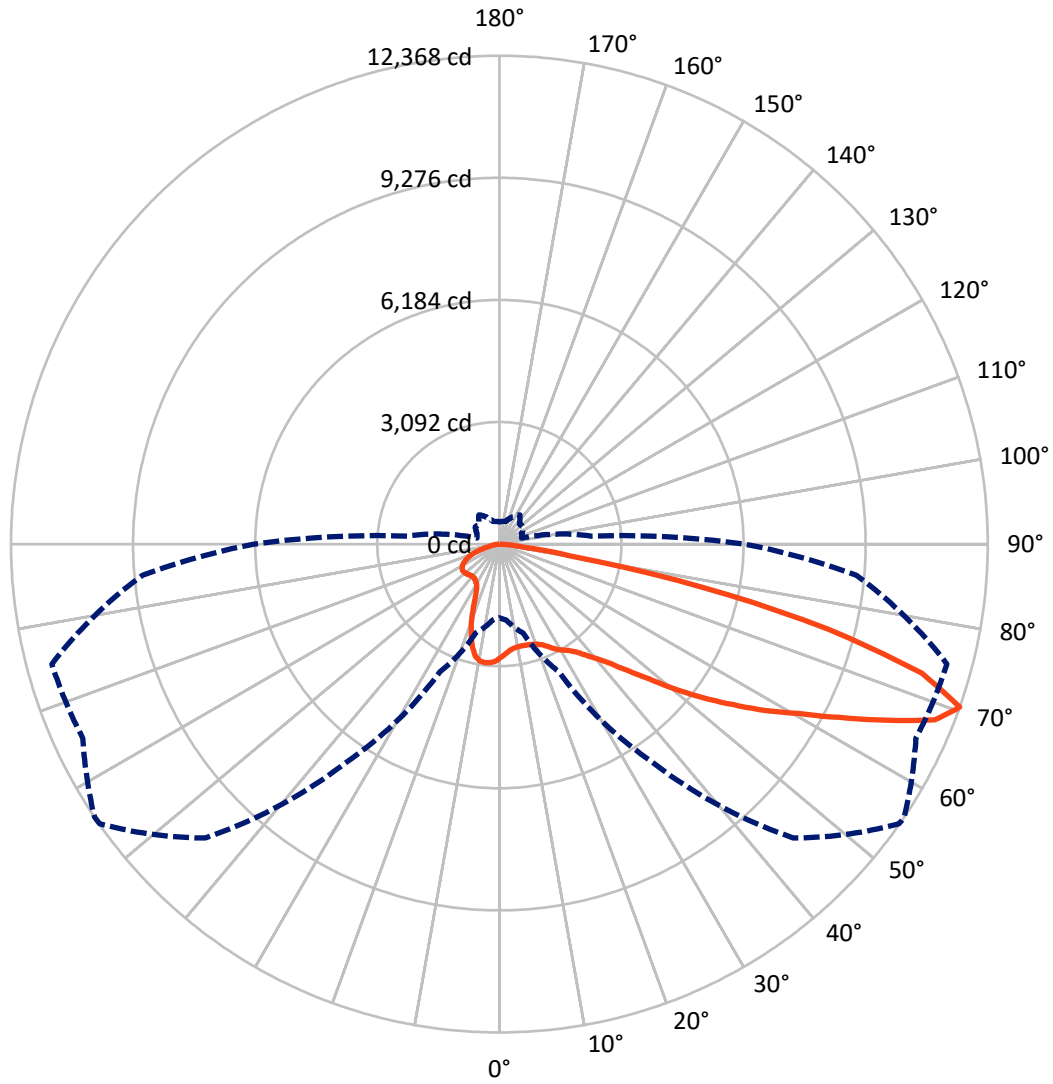
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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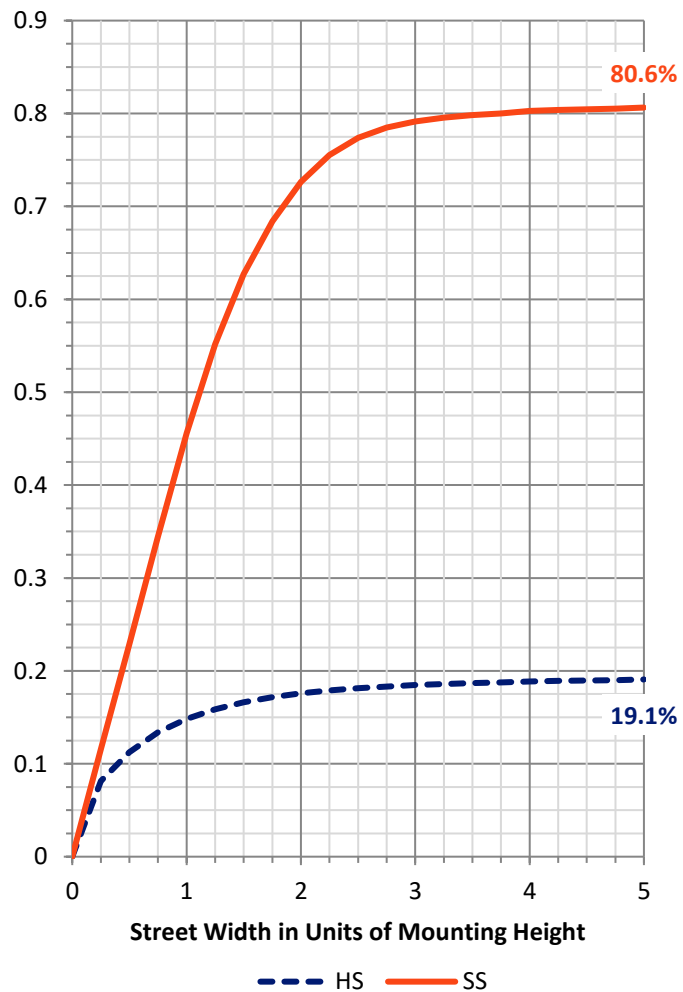
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3428.1	0.0	3428.1
	% Fixture	19.2	0.0	19.2
<b>Street Side</b>	Lumens	14403.2	0.0	14403.2
	% Fixture	80.8	0.0	80.8
<b>Total</b>	Lumens	17831.3	0.0	17831.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	266.3	1.5
10°-20°	721.7	4.0
20°-30°	1193.1	6.7
30°-40°	1783.9	10.0
40°-50°	2654.7	14.9
50°-60°	3774.2	21.2
60°-70°	4674.5	26.2
70°-80°	2581.1	14.5
80°-90°	181.8	1.0
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°	17831.3	100.0
0°-180°	17831.3	100.0

**Coefficient of Utilization**



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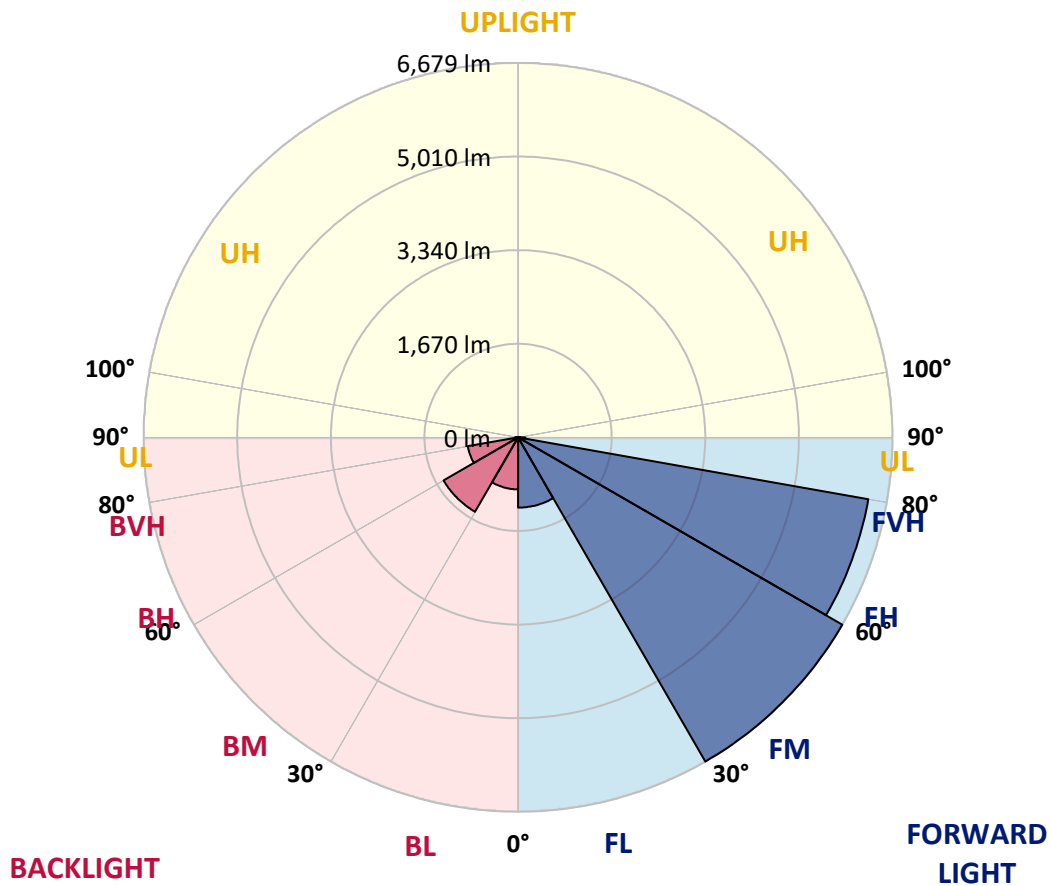
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1253.2	7.0			
FM (30°-60°)	6679.3	37.5			
FH (60°-80°)	6344.4	35.6			G3/7500
FVH (80°-90°)	126.3	0.7			G2/225
BL (0°-30°)	928.0	5.2	B2/1000		
BM (30°-60°)	1533.5	8.6	B2/2500		
BH (60°-80°)	911.2	5.1	B2/1000		G2/1000
BVH (80°-90°)	55.5	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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2878.2	2878.2	2878.2	2878.2	2878.2	2878.2	2878.2	2878.2	2878.2	2878.2	2878.2
2.5°	2693.4	2678.3	2695.9	2704.7	2727.4	2760.0	2789.0	2790.2	2805.3	2841.8	2877.0
5°	2571.4	2563.9	2568.9	2595.3	2619.2	2660.7	2704.7	2708.5	2751.2	2822.9	2893.3
7.5°	2477.1	2467.1	2485.9	2519.9	2550.1	2596.6	2654.4	2659.5	2719.8	2827.9	2936.1
10°	2341.3	2333.8	2369.0	2414.3	2479.6	2556.3	2633.0	2639.3	2718.6	2860.6	3011.5
12.5°	2282.2	2282.2	2297.3	2340.1	2411.7	2513.6	2629.3	2639.3	2738.7	2910.9	3108.4
15°	2374.0	2380.3	2367.7	2365.2	2394.1	2491.0	2634.3	2649.4	2776.4	2962.5	3203.9
17.5°	2558.9	2565.1	2532.5	2480.9	2452.0	2512.3	2653.2	2669.5	2816.6	3019.1	3307.0
20°	2817.9	2825.4	2753.8	2674.5	2575.2	2573.9	2689.6	2704.7	2868.2	3080.7	3416.4
22.5°	3120.9	3126.0	3035.4	2909.7	2757.5	2688.4	2752.5	2767.6	2934.8	3166.2	3534.6
25°	3471.8	3486.8	3377.4	3195.1	2988.9	2845.6	2856.9	2874.5	3054.3	3280.6	3674.2
27.5°	3846.5	3865.3	3739.6	3538.4	3254.2	3019.1	2991.4	3006.5	3181.3	3351.0	3748.4
30°	4230.0	4243.8	4118.1	3888.0	3539.7	3215.2	3104.6	3113.4	3236.6	3385.0	3823.8
32.5°	4656.2	4644.9	4524.2	4258.9	3869.1	3450.4	3210.2	3207.7	3298.2	3452.9	3932.0
35°	5056.1	5072.5	4944.2	4651.2	4231.2	3740.8	3368.6	3358.6	3429.0	3563.5	4084.1
37.5°	5540.2	5535.2	5381.8	5064.9	4594.6	4018.7	3591.2	3573.6	3598.8	3735.8	4296.6
40°	5886.0	5921.2	5821.9	5526.4	5019.6	4360.8	3851.5	3812.5	3818.8	3948.3	4580.8
42.5°	6168.9	6201.6	6211.7	6023.1	5506.3	4783.2	4175.9	4136.9	4140.7	4324.3	4930.4
45°	6386.5	6430.5	6572.6	6517.2	6054.5	5271.1	4614.8	4574.5	4577.0	4780.7	5352.9
47.5°	6475.7	6523.5	6811.5	6943.5	6636.7	5854.6	5160.5	5101.4	5110.2	5335.3	5835.7
50°	6446.8	6510.9	6900.7	7271.7	7124.6	6448.1	5813.1	5771.6	5737.6	6064.6	6360.1
52.5°	6197.8	6268.3	6891.9	7480.4	7523.2	7008.9	6487.1	6463.2	6455.6	6839.1	6946.0
55°	5464.8	5583.0	6588.9	7535.7	7835.0	7537.0	7217.6	7177.4	7216.4	7669.0	7538.3
57.5°	5058.6	5146.6	5995.4	7474.1	8090.3	8040.0	7946.9	7950.7	7994.7	8570.6	8256.3
60°	4827.3	4930.4	5666.0	7305.6	8335.5	8651.1	8710.2	8710.2	8789.4	9542.6	8985.6
62.5°	4520.4	4624.8	5357.9	6981.2	8561.8	9370.3	9669.6	9665.8	9697.3	10585.0	9698.5
65°	3898.0	3994.8	4739.2	6469.5	8672.5	10162.5	10759.8	10748.5	10685.6	11513.0	10170.1
67.5°	2830.5	2922.3	3630.2	5496.2	8273.9	10801.3	11882.7	11887.7	11511.7	12097.7	10195.2
70°	1866.0	1928.9	2333.8	3569.8	6728.5	10525.9	12352.9	12368.0	11638.7	11733.0	9073.6
72.5°	1164.4	1208.4	1457.4	2128.8	3976.0	8331.7	11145.8	11187.3	10470.6	10310.9	7455.3
75°	773.3	803.5	969.5	1241.1	1839.6	4509.1	8472.5	8605.8	8392.1	8082.7	5194.4
77.5°	465.2	490.4	617.4	788.4	814.8	1761.7	4945.5	5290.0	5320.2	4219.9	2175.3
80°	212.5	241.4	340.8	450.2	433.8	613.6	1744.0	1824.5	2152.7	1340.4	686.6
82.5°	125.7	138.3	226.3	223.8	184.8	298.0	627.5	643.8	547.0	490.4	293.0
85°	50.3	59.1	95.6	84.2	67.9	96.8	236.4	247.7	237.7	213.8	108.1
87.5°	0.0	0.0	0.0	0.0	1.3	2.5	21.4	22.6	32.7	59.1	32.7
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°	2878.2	2878.2	2878.2	2878.2	2878.2	2878.2	2878.2	2878.2	2878.2	2878.2	2878.2
2.5°	2899.6	2892.1	2929.8	2958.7	2971.3	2983.9	2972.6	2968.8	2968.8	2943.6	2931.1
5°	2931.1	2934.8	2986.4	3010.3	3010.3	3000.2	2970.0	2948.7	2941.1	2908.4	2899.6
7.5°	2990.2	3006.5	3054.3	3053.0	3017.8	2962.5	2887.0	2829.2	2776.4	2753.8	2739.9
10°	3087.0	3108.4	3141.0	3088.2	2990.2	2844.3	2684.6	2558.9	2483.4	2423.1	2423.1
12.5°	3197.6	3217.8	3211.5	3089.5	2887.0	2614.2	2384.1	2239.5	2133.9	2078.5	2078.5
15°	3308.3	3324.6	3256.7	3031.7	2672.0	2308.6	2057.1	1883.6	1791.8	1740.3	1740.3
17.5°	3420.2	3418.9	3275.6	2898.4	2391.6	1970.4	1723.9	1589.4	1557.9	1549.1	1547.9
20°	3528.3	3499.4	3251.7	2675.8	2065.9	1629.6	1473.7	1482.5	1529.0	1549.1	1551.7
22.5°	3650.3	3578.6	3181.3	2391.6	1696.3	1393.2	1403.3	1476.2	1544.1	1574.3	1578.1
25°	3774.8	3646.5	3063.1	2058.4	1386.9	1306.5	1384.4	1466.2	1542.9	1581.8	1585.6
27.5°	3825.1	3646.5	2861.9	1672.4	1222.2	1270.0	1355.5	1434.7	1515.2	1560.5	1569.3
30°	3866.6	3615.1	2580.2	1324.1	1154.3	1234.8	1309.0	1381.9	1461.1	1516.5	1526.5
32.5°	3924.4	3587.4	2239.5	1112.8	1122.9	1200.8	1252.4	1314.0	1385.7	1422.1	1418.4
35°	3992.3	3544.7	1828.3	1012.2	1096.5	1171.9	1208.4	1244.9	1212.2	1210.9	1214.7
37.5°	4089.1	3507.0	1469.9	967.0	1078.9	1151.8	1182.0	1104.0	1058.8	1039.9	1032.3
40°	4228.7	3491.9	1159.3	940.6	1076.4	1150.5	1129.2	1008.5	946.8	881.5	880.2
42.5°	4404.8	3480.6	958.2	928.0	1085.2	1179.5	1056.2	945.6	818.6	789.7	787.1
45°	4631.1	3462.9	857.6	925.5	1106.5	1202.1	1048.7	858.8	772.1	759.5	759.5
47.5°	4904.0	3435.3	812.3	925.5	1130.4	1192.0	1026.1	840.0	750.7	764.5	773.3
50°	5217.1	3400.1	788.4	923.0	1154.3	1192.0	978.3	836.2	745.7	817.3	846.2
52.5°	5551.5	3359.8	772.1	912.9	1170.7	1193.3	980.8	848.8	750.7	829.9	853.8
55°	5921.2	3353.6	749.4	891.5	1175.7	1160.6	987.1	876.4	758.2	751.9	753.2
57.5°	6387.7	3429.0	733.1	860.1	1155.6	1094.0	999.7	896.5	749.4	750.7	759.5
60°	6875.6	3571.1	746.9	829.9	1114.1	1031.1	1008.5	886.5	706.7	686.6	689.1
62.5°	7290.6	3679.2	758.2	816.1	1053.7	975.8	999.7	863.9	682.8	677.8	689.1
65°	7464.1	3589.9	730.6	787.1	965.7	907.9	980.8	834.9	662.7	643.8	645.1
67.5°	7271.7	3171.2	676.5	723.0	866.4	821.1	950.6	797.2	635.0	612.4	607.3
70°	6211.7	2330.0	583.4	621.2	745.7	719.2	904.1	748.2	591.0	574.6	563.3
72.5°	5005.8	1649.7	484.1	494.2	584.7	606.1	823.6	686.6	540.7	494.2	477.8
75°	3484.3	1036.1	403.6	393.6	422.5	462.7	642.5	569.6	466.5	417.5	402.4
77.5°	1498.9	531.9	315.6	310.6	281.7	320.6	492.9	475.3	391.1	334.5	325.7
80°	501.7	308.1	227.6	218.8	187.4	225.1	347.0	379.7	306.8	247.7	232.6
82.5°	251.5	178.6	144.6	130.8	125.7	142.1	205.0	236.4	212.5	171.0	144.6
85°	123.2	101.9	79.2	78.0	65.4	61.6	85.5	100.6	95.6	70.4	66.6
87.5°	45.3	40.2	25.1	20.1	12.6	8.8	5.0	5.0	3.8	3.8	3.8
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)