

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: P635757

Luminaire Tested: GWS-SA3E-735-U-T4W-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P635757  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-52)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA3E-735-U-T4W-W  
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: (48) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

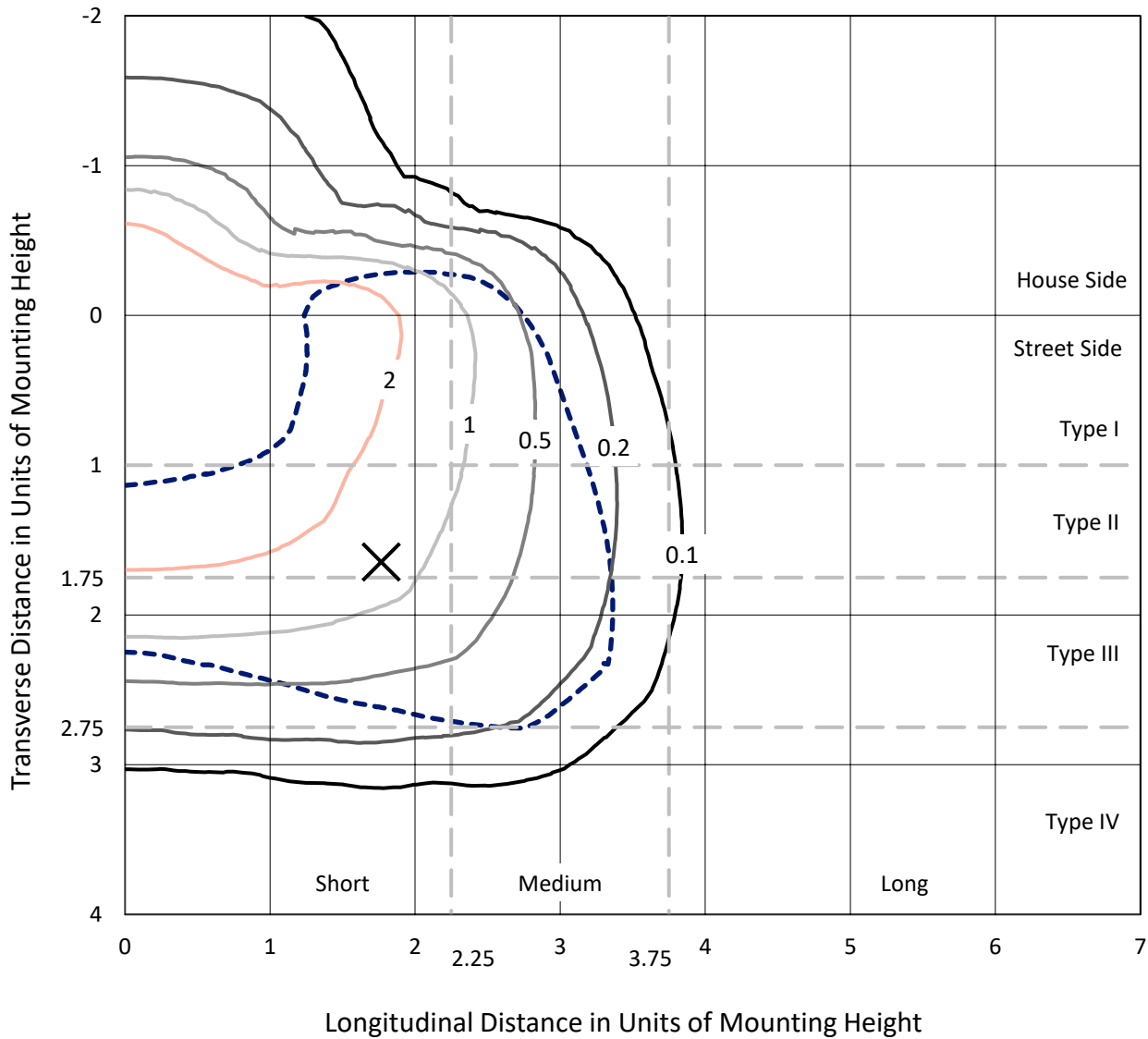
Lumens per Lamp: N/A  
Luminaire Lumens: 21504.3 lumens  
Efficiency: N/A  
Efficacy: 135.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 159.2  
Input Voltage (V): 120  
Input Current (Ain): 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

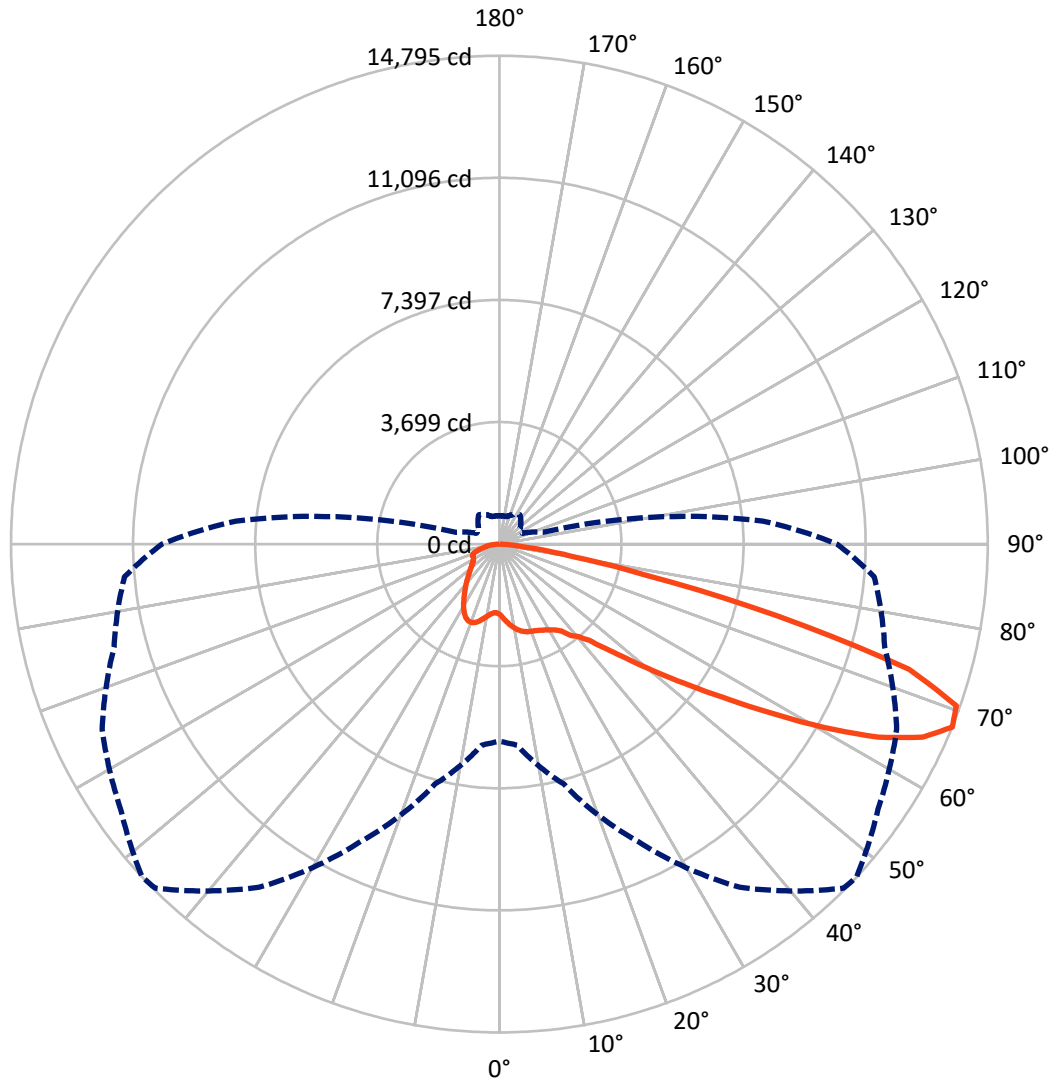
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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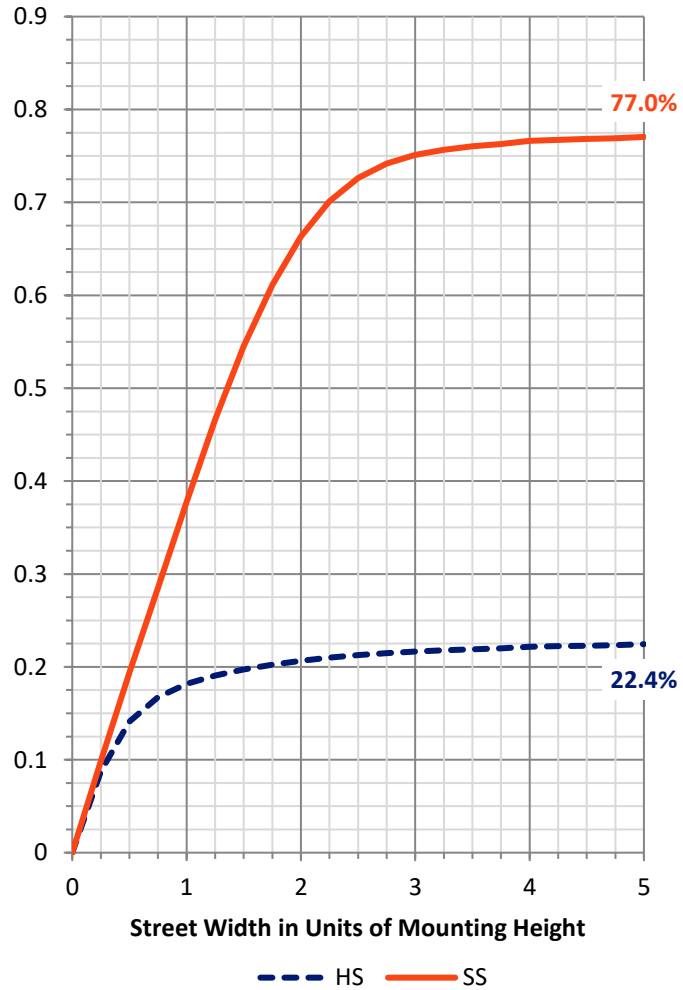
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4901.0	0.0	4901.0
	% Fixture	22.8	0.0	22.8
<b>Street Side</b>	Lumens	16603.3	0.0	16603.3
	% Fixture	77.2	0.0	77.2
<b>Total</b>	Lumens	21504.3	0.0	21504.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	217.9	1.0
10°-20°	725.9	3.4
20°-30°	1233.8	5.7
30°-40°	1807.3	8.4
40°-50°	2753.7	12.8
50°-60°	4926.9	22.9
60°-70°	6574.5	30.6
70°-80°	2973.1	13.8
80°-90°	291.3	1.4
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°	21504.3	100.0
0°-180°	21504.3	100.0

**Coefficient of Utilization**



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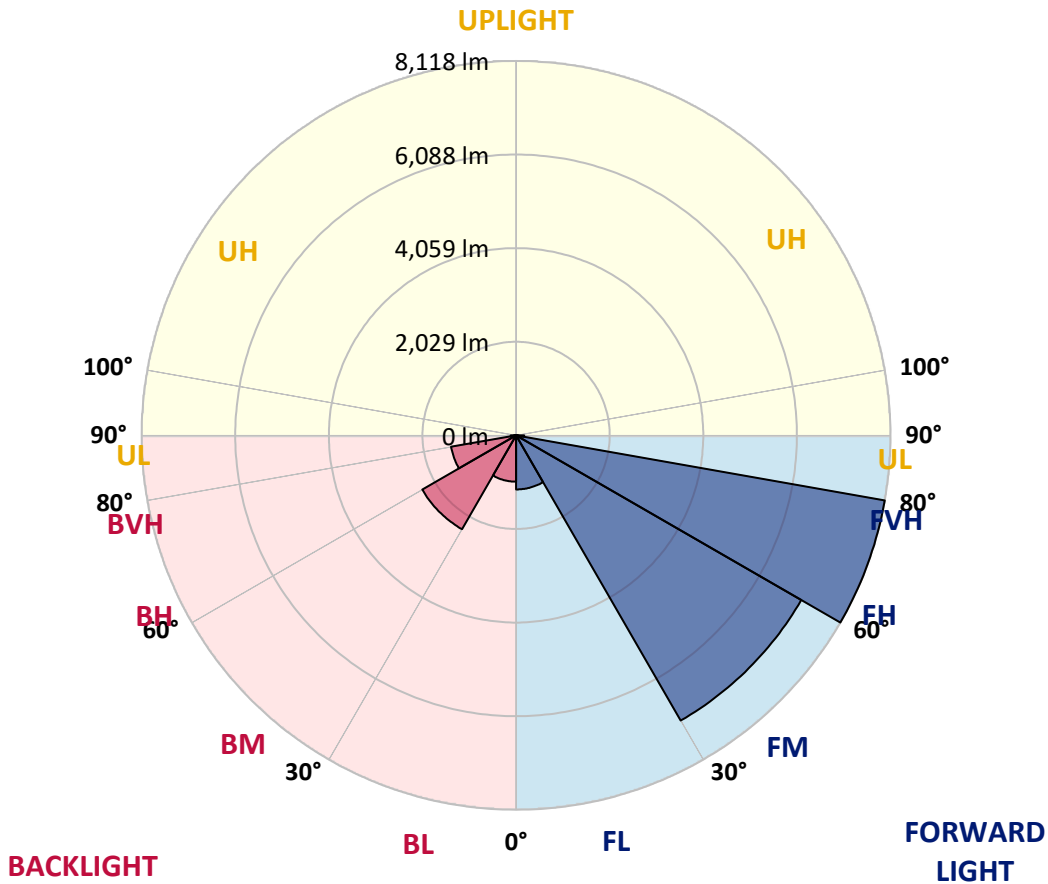
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1172.8	5.5			
FM (30°-60°)	7139.6	33.2			
FH (60°-80°)	8117.6	37.7			G4/12000
FVH (80°-90°)	173.3	0.8			G2/225
BL (0°-30°)	1004.7	4.7	B3/2500		
BM (30°-60°)	2348.3	10.9	B2/2500		
BH (60°-80°)	1429.9	6.6	B3/2500		G3/2500
BVH (80°-90°)	118.0	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	2131.8	2131.8	2131.8	2131.8	2131.8	2131.8	2131.8	2131.8	2131.8	2131.8	2131.8
2.5°	2273.3	2281.0	2279.5	2267.0	2259.3	2245.3	2246.8	2225.1	2192.4	2170.6	2145.8
5°	2473.8	2486.3	2470.7	2450.5	2419.4	2374.3	2369.7	2319.9	2257.7	2214.2	2169.1
7.5°	2648.0	2655.8	2637.1	2602.9	2557.8	2497.2	2486.3	2427.2	2349.4	2281.0	2215.7
10°	2783.3	2792.6	2767.7	2722.6	2663.5	2602.9	2595.1	2534.5	2452.1	2371.2	2288.8
12.5°	2898.3	2901.4	2875.0	2814.4	2750.6	2688.4	2680.6	2624.7	2548.5	2466.1	2375.9
15°	2965.2	2966.7	2934.1	2867.2	2806.6	2752.2	2747.5	2699.3	2629.3	2551.6	2455.2
17.5°	2960.5	2963.6	2940.3	2881.2	2828.3	2795.7	2791.0	2759.9	2705.5	2635.5	2539.1
20°	2903.0	2906.1	2890.5	2851.7	2823.7	2814.4	2815.9	2806.6	2773.9	2716.4	2618.4
22.5°	2857.9	2862.6	2848.6	2820.6	2817.5	2839.2	2843.9	2848.6	2833.0	2781.7	2686.9
25°	2879.7	2887.4	2865.7	2826.8	2833.0	2881.2	2890.5	2906.1	2893.7	2850.1	2767.7
27.5°	3030.5	3035.1	2979.2	2899.9	2881.2	2932.5	2946.5	2971.4	2962.1	2921.6	2857.9
30°	3380.3	3377.2	3257.5	3063.1	2985.4	3005.6	3016.5	3052.3	3055.4	3028.9	2968.3
32.5°	3873.2	3857.7	3672.7	3363.2	3137.8	3088.0	3100.5	3148.7	3184.4	3156.4	3074.0
35°	4394.1	4380.1	4176.4	3814.1	3419.2	3246.6	3232.6	3269.9	3324.4	3246.6	3128.4
37.5°	4890.1	4868.4	4660.0	4212.2	3765.9	3524.9	3504.7	3467.4	3434.8	3285.5	3195.3
40°	5440.6	5415.7	5233.8	4726.9	4148.5	3738.0	3686.6	3538.9	3509.4	3414.5	3369.5
42.5°	6028.3	6028.3	5877.5	5378.4	4610.3	4042.7	3975.9	3753.5	3784.6	3722.4	3669.5
45°	6616.1	6633.2	6513.4	6034.5	5227.5	4618.0	4510.7	4195.1	4269.7	4241.7	4215.3
47.5°	7116.7	7149.4	7126.1	6704.7	5983.2	5317.7	5154.5	4826.4	4986.5	5053.4	5128.0
50°	7656.3	7692.0	7668.7	7502.4	6868.0	6165.1	6019.0	5680.0	5955.2	6155.8	6399.9
52.5°	8457.1	8508.4	8314.0	8250.3	7942.4	7127.6	6997.0	6611.4	7110.5	7443.3	7987.5
55°	9133.4	9131.9	9063.5	9209.6	9096.1	8304.7	8160.1	7810.2	8447.7	8800.7	9596.8
57.5°	9447.5	9484.8	9719.6	10133.2	10360.2	9743.0	9604.6	9246.9	9882.9	10066.4	10926.2
60°	9609.2	9655.9	10109.9	10927.8	11538.9	11313.4	11259.0	10803.4	11161.0	11139.2	12047.3
62.5°	9382.2	9475.5	10204.8	11291.6	12380.0	12891.6	12874.5	12185.7	12247.9	12034.9	12742.3
65°	8340.4	8441.5	9585.9	11109.7	12860.5	14092.0	14096.6	13437.4	13082.9	12470.2	12625.7
67.5°	5964.6	6109.2	7524.1	9940.4	12691.0	14740.4	14794.8	14004.9	13278.8	12084.6	11400.5
70°	3251.3	3357.0	4465.6	7225.6	11164.1	14584.9	14686.0	13731.2	12414.3	10453.5	8775.8
72.5°	1477.1	1511.4	2077.3	3965.0	7626.7	12554.2	12977.1	12254.1	10195.4	7721.6	5580.5
75°	676.4	691.9	904.9	1897.0	3985.2	8401.1	8698.1	9127.2	7095.0	4876.1	2909.2
77.5°	424.5	429.2	514.7	867.6	1987.2	4193.5	4506.1	5434.3	4154.7	2413.2	1215.9
80°	250.3	255.0	320.3	469.6	932.9	1918.7	2215.7	2148.9	1952.9	1041.8	553.5
82.5°	125.9	130.6	185.0	267.4	508.4	763.5	898.7	903.4	727.7	564.4	312.5
85°	45.1	46.6	60.6	105.7	216.1	251.9	281.4	343.6	356.1	328.1	150.8
87.5°	0.0	0.0	1.6	3.1	6.2	24.9	26.4	49.8	104.2	116.6	60.6
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°	2131.8	2131.8	2131.8	2131.8	2131.8	2131.8	2131.8	2131.8	2131.8	2131.8	2131.8
2.5°	2138.0	2114.7	2106.9	2099.1	2086.7	2082.0	2072.7	2063.3	2063.3	2054.0	2049.3
5°	2148.9	2117.8	2097.5	2088.2	2080.4	2085.1	2085.1	2088.2	2099.1	2092.9	2096.0
7.5°	2187.7	2152.0	2124.0	2116.2	2116.2	2134.9	2147.3	2162.9	2183.1	2186.2	2186.2
10°	2256.1	2214.2	2184.6	2180.0	2187.7	2214.2	2232.8	2251.5	2276.4	2277.9	2281.0
12.5°	2330.8	2288.8	2259.3	2265.5	2273.3	2307.5	2327.7	2343.2	2368.1	2368.1	2366.5
15°	2408.5	2361.9	2337.0	2349.4	2372.8	2411.6	2414.7	2416.3	2428.7	2425.6	2424.1
17.5°	2489.4	2439.6	2421.0	2439.6	2464.5	2483.2	2467.6	2445.8	2441.2	2435.0	2431.9
20°	2568.7	2517.4	2509.6	2523.6	2531.4	2515.8	2467.6	2427.2	2408.5	2399.2	2396.1
22.5°	2637.1	2593.6	2588.9	2588.9	2550.0	2495.6	2424.1	2369.7	2344.8	2332.3	2329.2
25°	2718.0	2677.5	2669.7	2627.8	2528.3	2428.7	2332.3	2282.6	2262.4	2256.1	2257.7
27.5°	2812.8	2784.8	2759.9	2640.2	2466.1	2310.6	2201.7	2180.0	2172.2	2180.0	2184.6
30°	2929.4	2901.4	2845.5	2624.7	2366.5	2156.6	2052.5	2050.9	2074.2	2094.4	2097.5
32.5°	3024.3	3011.8	2920.1	2574.9	2226.6	1987.2	1898.5	1904.7	1946.7	1974.7	1979.4
35°	3098.9	3119.1	2982.3	2492.5	2060.2	1827.0	1757.0	1760.1	1783.5	1822.3	1823.9
37.5°	3204.6	3273.0	3038.3	2366.5	1869.0	1688.6	1624.9	1601.5	1598.4	1609.3	1612.4
40°	3417.7	3520.3	3078.7	2183.1	1683.9	1564.2	1492.7	1447.6	1408.7	1379.2	1369.9
42.5°	3739.5	3857.7	3102.0	1960.7	1519.1	1441.4	1360.5	1303.0	1234.6	1172.4	1150.6
45°	4330.4	4369.2	3102.0	1724.4	1373.0	1326.3	1245.5	1177.1	1090.0	1016.9	1001.4
47.5°	5275.7	5151.4	3105.1	1495.8	1243.9	1225.3	1155.3	1077.5	981.1	920.5	911.2
50°	6700.0	6263.1	3168.9	1306.1	1136.6	1139.7	1088.4	1002.9	915.8	870.7	863.0
52.5°	8314.0	7633.0	3339.9	1166.2	1046.4	1069.8	1041.8	959.4	881.6	842.8	835.0
55°	9831.6	8892.4	3486.1	1066.7	970.3	1010.7	1009.1	932.9	863.0	824.1	819.4
57.5°	11122.1	9755.4	3464.3	985.8	904.9	956.3	979.6	915.8	850.5	817.9	813.2
60°	11924.5	10212.5	3154.9	911.2	855.2	917.4	962.5	911.2	856.7	849.0	850.5
62.5°	12272.8	10128.6	2560.9	855.2	822.5	898.7	981.1	943.8	914.3	932.9	943.8
65°	11731.7	9407.1	1884.5	813.2	791.4	903.4	1024.7	995.1	914.3	926.7	931.4
67.5°	10229.6	8007.7	1362.1	771.2	752.6	917.4	1086.9	987.4	861.4	861.4	852.1
70°	7371.7	5759.3	988.9	729.2	713.7	897.2	1090.0	934.5	800.8	796.1	772.8
72.5°	4436.1	3397.4	771.2	682.6	654.6	796.1	1021.6	872.3	741.7	702.8	674.8
75°	2304.3	1702.6	646.8	631.3	561.3	674.8	934.5	775.9	634.4	600.2	584.6
77.5°	987.4	796.1	555.1	562.9	466.5	567.5	754.1	671.7	562.9	519.3	505.3
80°	486.7	452.5	438.5	450.9	373.2	438.5	649.9	587.7	477.4	427.6	407.4
82.5°	278.3	264.3	315.6	320.3	265.9	367.0	548.9	497.6	394.9	340.5	307.9
85°	129.1	138.4	191.3	192.8	164.8	251.9	359.2	279.9	209.9	174.1	166.4
87.5°	51.3	60.6	84.0	82.4	48.2	46.6	31.1	17.1	14.0	12.4	10.9
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)