

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: P636252

Luminaire Tested: GWS-SA3F-735-U-T4W-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636252
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-SA3F-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: 23908.9 lumens
Efficiency: N/A
Efficacy: 130.5 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

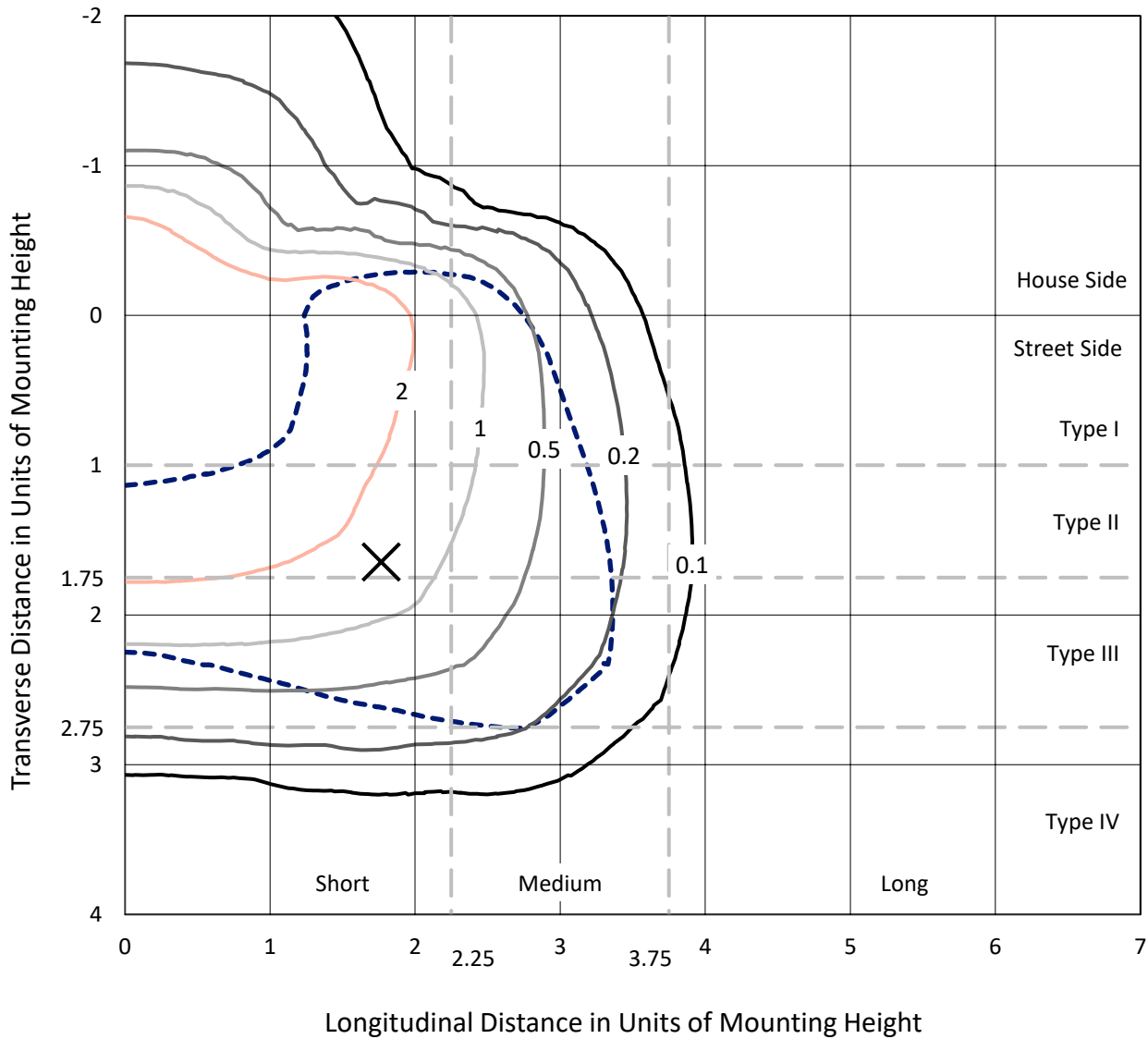
Input Watts (W): 183.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

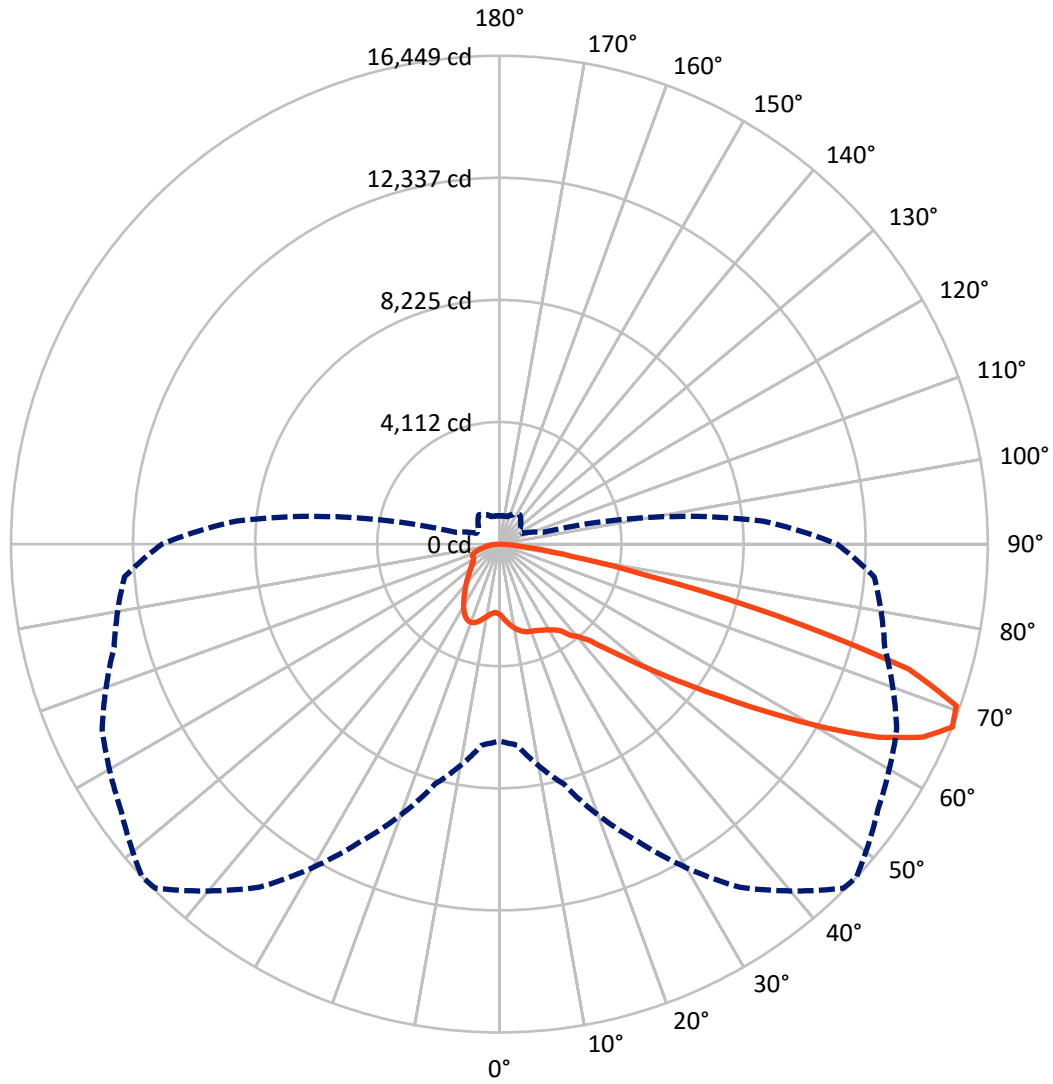
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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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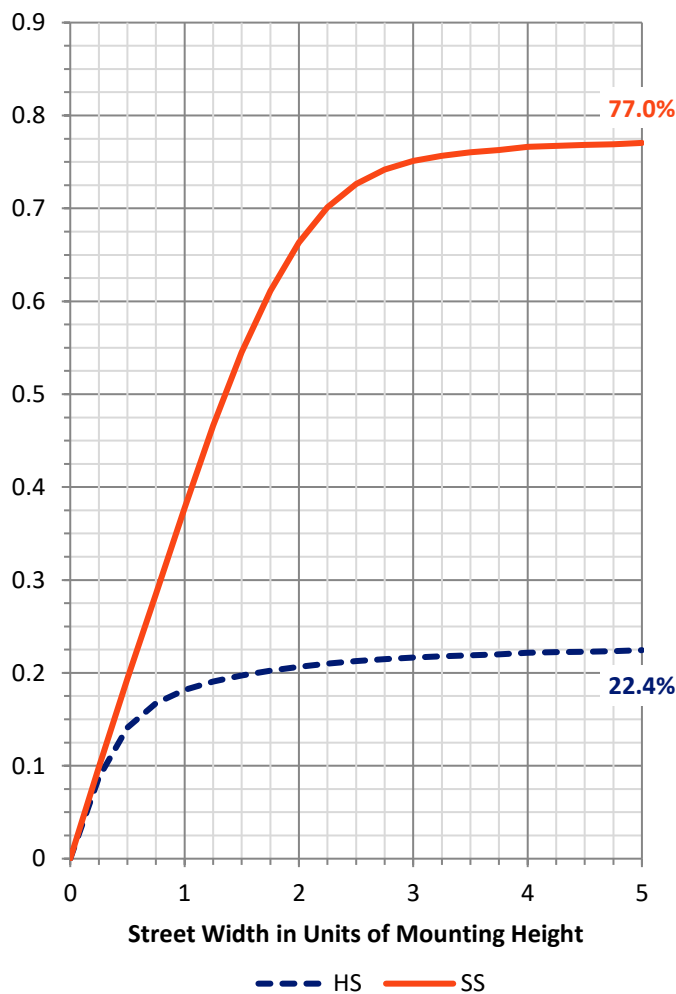
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5449.0	0.0	5449.0
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	18459.9	0.0	18459.9
	% Fixture	77.2	0.0	77.2
Total	Lumens	23908.9	0.0	23908.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.2	1.0
10°-20°	807.0	3.4
20°-30°	1371.7	5.7
30°-40°	2009.4	8.4
40°-50°	3061.6	12.8
50°-60°	5477.9	22.9
60°-70°	7309.6	30.6
70°-80°	3305.6	13.8
80°-90°	323.9	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°	23908.9	100.0
0°-180°	23908.9	100.0

Coefficient of Utilization



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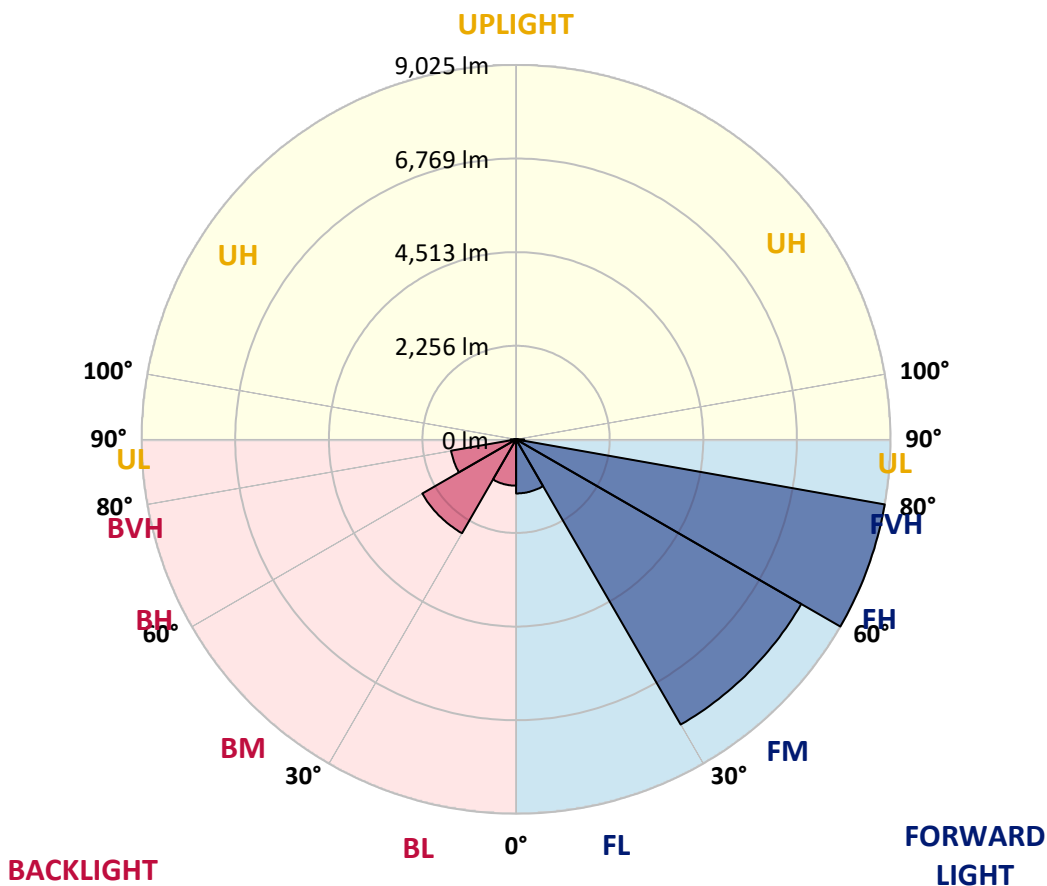
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1303.9	5.5			
FM (30°-60°)	7938.0	33.2			
FH (60°-80°)	9025.3	37.7			G4/12000
FVH (80°-90°)	192.6	0.8			G2/225
BL (0°-30°)	1117.1	4.7	B3/2500		
BM (30°-60°)	2610.9	10.9	B3/5000		
BH (60°-80°)	1589.8	6.6	B3/2500		G3/2500
BVH (80°-90°)	131.2	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°	2370.1	2370.1	2370.1	2370.1	2370.1	2370.1	2370.1	2370.1	2370.1	2370.1	2370.1
2.5°	2527.4	2536.1	2534.4	2520.5	2511.9	2496.3	2498.1	2473.9	2437.6	2413.3	2385.7
5°	2750.5	2764.3	2747.0	2724.5	2689.9	2639.8	2634.6	2579.3	2510.2	2461.8	2411.6
7.5°	2944.1	2952.7	2932.0	2893.9	2843.8	2776.4	2764.3	2698.6	2612.2	2536.1	2463.5
10°	3094.5	3104.9	3077.2	3027.1	2961.4	2893.9	2885.3	2817.9	2726.3	2636.4	2544.7
12.5°	3222.4	3225.9	3196.5	3129.1	3058.2	2989.0	2980.4	2918.1	2833.4	2741.8	2641.5
15°	3296.7	3298.5	3262.2	3187.8	3120.4	3059.9	3054.7	3001.1	2923.3	2836.9	2729.7
17.5°	3291.6	3295.0	3269.1	3203.4	3144.6	3108.3	3103.1	3068.5	3008.0	2930.2	2823.1
20°	3227.6	3231.1	3213.8	3170.5	3139.4	3129.1	3130.8	3120.4	3084.1	3020.1	2911.2
22.5°	3177.5	3182.6	3167.1	3136.0	3132.5	3156.7	3161.9	3167.1	3149.8	3092.7	2987.3
25°	3201.7	3210.3	3186.1	3142.9	3149.8	3203.4	3213.8	3231.1	3217.2	3168.8	3077.2
27.5°	3369.4	3374.5	3312.3	3224.1	3203.4	3260.4	3276.0	3303.7	3293.3	3248.3	3177.5
30°	3758.3	3754.9	3621.8	3405.7	3319.2	3341.7	3353.8	3393.6	3397.0	3367.6	3300.2
32.5°	4306.3	4289.1	4083.3	3739.3	3488.6	3433.3	3447.1	3500.7	3540.5	3509.4	3417.8
35°	4885.5	4869.9	4643.4	4240.6	3801.5	3609.6	3594.1	3635.6	3696.1	3609.6	3478.3
37.5°	5436.9	5412.7	5181.1	4683.2	4187.1	3919.1	3896.6	3855.1	3818.8	3652.9	3552.6
40°	6048.9	6021.3	5819.0	5255.4	4612.3	4155.9	4098.9	3934.7	3901.8	3796.4	3746.2
42.5°	6702.4	6702.4	6534.7	5979.8	5125.8	4494.8	4420.4	4173.2	4207.8	4138.6	4079.9
45°	7355.9	7374.9	7241.8	6709.3	5812.1	5134.4	5015.1	4664.2	4747.2	4716.1	4686.7
47.5°	7912.5	7948.8	7922.9	7454.4	6652.3	5912.4	5730.8	5366.1	5544.1	5618.5	5701.4
50°	8512.4	8552.2	8526.2	8341.3	7635.9	6854.5	6692.0	6315.2	6621.1	6844.2	7115.6
52.5°	9402.7	9459.8	9243.7	9172.8	8830.5	7924.6	7779.4	7350.7	7905.6	8275.6	8880.6
55°	10154.7	10153.0	10076.9	10239.4	10113.2	9233.3	9072.5	8683.6	9392.3	9784.8	10669.9
57.5°	10503.9	10545.4	10806.5	11266.3	11518.7	10832.4	10678.5	10280.9	10988.0	11192.0	12148.0
60°	10683.7	10735.6	11240.4	12149.7	12829.1	12578.5	12517.9	12011.4	12409.0	12384.8	13394.4
62.5°	10431.3	10535.1	11345.8	12554.2	13764.4	14333.1	14314.1	13548.3	13617.4	13380.6	14167.2
65°	9273.1	9385.4	10657.8	12352.0	14298.6	15667.7	15672.9	14939.9	14545.8	13864.6	14037.5
67.5°	6631.5	6792.3	8365.5	11052.0	14110.1	16388.6	16449.1	15570.9	14763.6	13435.9	12675.3
70°	3614.8	3732.4	4965.0	8033.5	12412.5	16215.8	16328.1	15266.7	13802.4	11622.4	9757.1
72.5°	1642.3	1680.4	2309.6	4408.3	8479.6	13958.0	14428.2	13624.3	11335.5	8585.0	6204.5
75°	752.0	769.3	1006.1	2109.1	4430.8	9340.5	9670.7	10147.8	7888.3	5421.4	3234.5
77.5°	472.0	477.1	572.2	964.6	2209.4	4662.5	5009.9	6042.0	4619.2	2683.0	1351.9
80°	278.3	283.5	356.1	522.1	1037.3	2133.3	2463.5	2389.1	2171.3	1158.3	615.4
82.5°	140.0	145.2	205.7	297.3	565.3	848.8	999.2	1004.4	809.1	627.5	347.5
85°	50.1	51.9	67.4	117.6	240.3	280.1	312.9	382.1	395.9	364.8	167.7
87.5°	0.0	0.0	1.7	3.5	6.9	27.7	29.4	55.3	115.8	129.7	67.4
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°	2370.1	2370.1	2370.1	2370.1	2370.1	2370.1	2370.1	2370.1	2370.1	2370.1	2370.1
2.5°	2377.0	2351.1	2342.5	2333.8	2320.0	2314.8	2304.4	2294.1	2294.1	2283.7	2278.5
5°	2389.1	2354.6	2332.1	2321.7	2313.1	2318.3	2318.3	2321.7	2333.8	2326.9	2330.4
7.5°	2432.4	2392.6	2361.5	2352.8	2352.8	2373.6	2387.4	2404.7	2427.2	2430.6	2430.6
10°	2508.4	2461.8	2428.9	2423.7	2432.4	2461.8	2482.5	2503.2	2530.9	2532.6	2536.1
12.5°	2591.4	2544.7	2511.9	2518.8	2527.4	2565.5	2588.0	2605.2	2632.9	2632.9	2631.2
15°	2677.8	2626.0	2598.3	2612.2	2638.1	2681.3	2684.8	2686.5	2700.3	2696.9	2695.1
17.5°	2767.7	2712.4	2691.7	2712.4	2740.1	2760.8	2743.5	2719.3	2714.2	2707.2	2703.8
20°	2855.9	2798.9	2790.2	2805.8	2814.4	2797.1	2743.5	2698.6	2677.8	2667.5	2664.0
22.5°	2932.0	2883.6	2878.4	2878.4	2835.2	2774.7	2695.1	2634.6	2607.0	2593.1	2589.7
25°	3021.9	2976.9	2968.3	2921.6	2811.0	2700.3	2593.1	2537.8	2515.3	2508.4	2510.2
27.5°	3127.3	3096.2	3068.5	2935.4	2741.8	2568.9	2447.9	2423.7	2415.1	2423.7	2428.9
30°	3257.0	3225.9	3163.6	2918.1	2631.2	2397.8	2282.0	2280.2	2306.2	2328.6	2332.1
32.5°	3362.4	3348.6	3246.6	2862.8	2475.6	2209.4	2110.8	2117.7	2164.4	2195.5	2200.7
35°	3445.4	3467.9	3315.8	2771.2	2290.6	2031.3	1953.5	1957.0	1982.9	2026.1	2027.8
37.5°	3563.0	3639.0	3378.0	2631.2	2078.0	1877.4	1806.6	1780.6	1777.2	1789.3	1792.7
40°	3799.8	3913.9	3422.9	2427.2	1872.2	1739.1	1659.6	1609.5	1566.3	1533.4	1523.0
42.5°	4157.7	4289.1	3448.9	2180.0	1689.0	1602.6	1512.7	1448.7	1372.6	1303.5	1279.3
45°	4814.6	4857.8	3448.9	1917.2	1526.5	1474.6	1384.7	1308.7	1211.9	1130.6	1113.3
47.5°	5865.7	5727.4	3452.3	1663.1	1383.0	1362.3	1284.5	1198.0	1090.8	1023.4	1013.1
50°	7449.2	6963.4	3523.2	1452.2	1263.7	1267.2	1210.1	1115.0	1018.2	968.1	959.5
52.5°	9243.7	8486.5	3713.4	1296.6	1163.5	1189.4	1158.3	1066.6	980.2	937.0	928.3
55°	10930.9	9886.8	3875.9	1185.9	1078.7	1123.7	1122.0	1037.3	959.5	916.2	911.1
57.5°	12365.8	10846.2	3851.7	1096.0	1006.1	1063.2	1089.1	1018.2	945.6	909.3	904.1
60°	13257.9	11354.5	3507.7	1013.1	950.8	1020.0	1070.1	1013.1	952.5	943.9	945.6
62.5°	13645.1	11261.1	2847.3	950.8	914.5	999.2	1090.8	1049.4	1016.5	1037.3	1049.4
65°	13043.5	10459.0	2095.3	904.1	879.9	1004.4	1139.3	1106.4	1016.5	1030.3	1035.5
67.5°	11373.5	8903.1	1514.4	857.5	836.7	1020.0	1208.4	1097.8	957.7	957.7	947.4
70°	8196.0	6403.3	1099.5	810.8	793.5	997.5	1211.9	1039.0	890.3	885.1	859.2
72.5°	4932.1	3777.3	857.5	758.9	727.8	885.1	1135.8	969.8	824.6	781.4	750.3
75°	2562.0	1893.0	719.2	701.9	624.1	750.3	1039.0	862.7	705.3	667.3	650.0
77.5°	1097.8	885.1	617.2	625.8	518.6	631.0	838.4	746.8	625.8	577.4	561.8
80°	541.1	503.1	487.5	501.3	414.9	487.5	722.6	653.5	530.7	475.4	452.9
82.5°	309.4	293.9	350.9	356.1	295.6	408.0	610.3	553.2	439.1	378.6	342.3
85°	143.5	153.9	212.6	214.4	183.2	280.1	399.3	311.2	233.4	193.6	185.0
87.5°	57.0	67.4	93.4	91.6	53.6	51.9	34.6	19.0	15.6	13.8	12.1
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)