

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: P641697

Luminaire Tested: GWS-SA6B-735-U-T4W-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641697
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-SA6B-735-U-T4W-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20703.5 lumens
Efficiency: N/A
Efficacy: 149.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

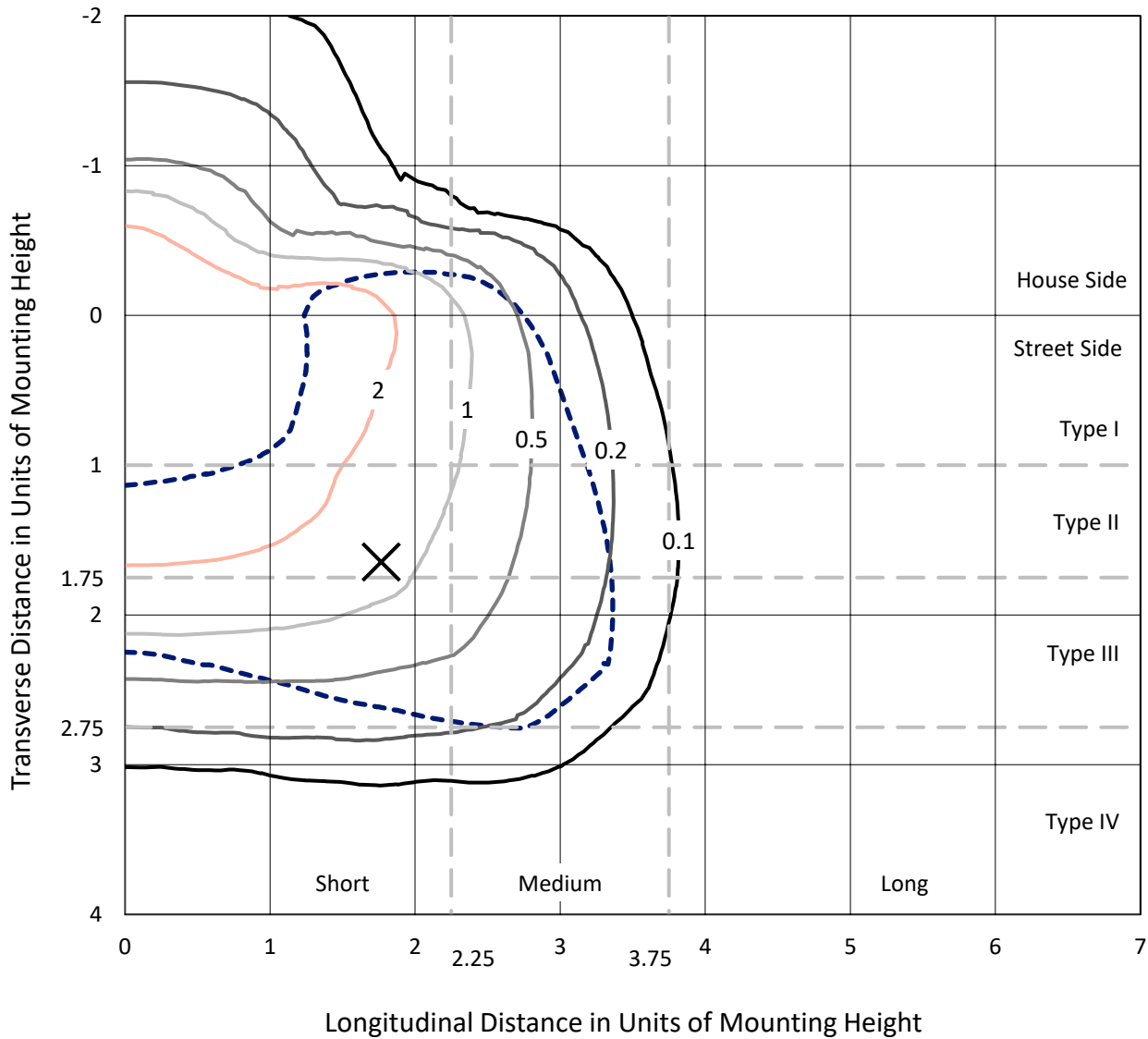
Input Watts (W): 138.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

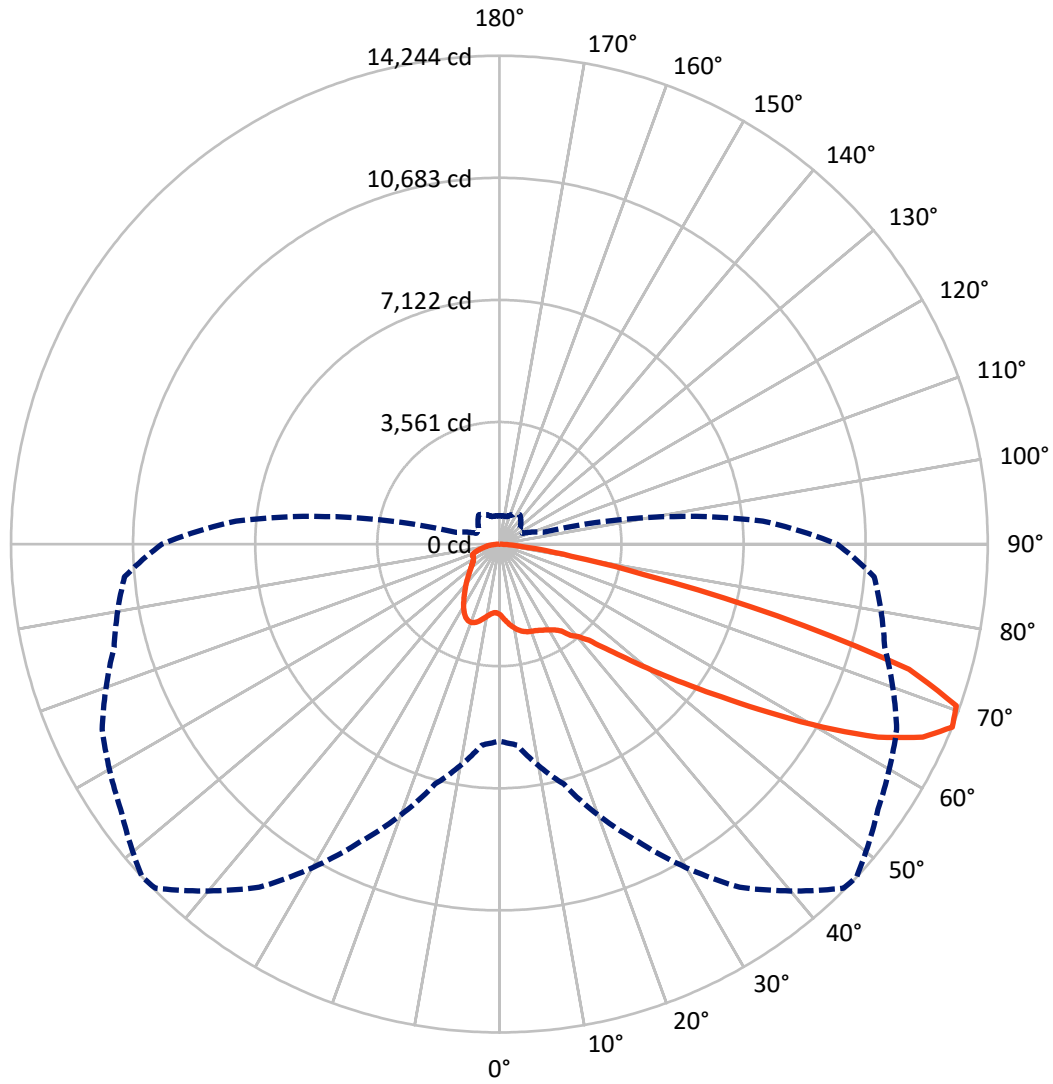
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 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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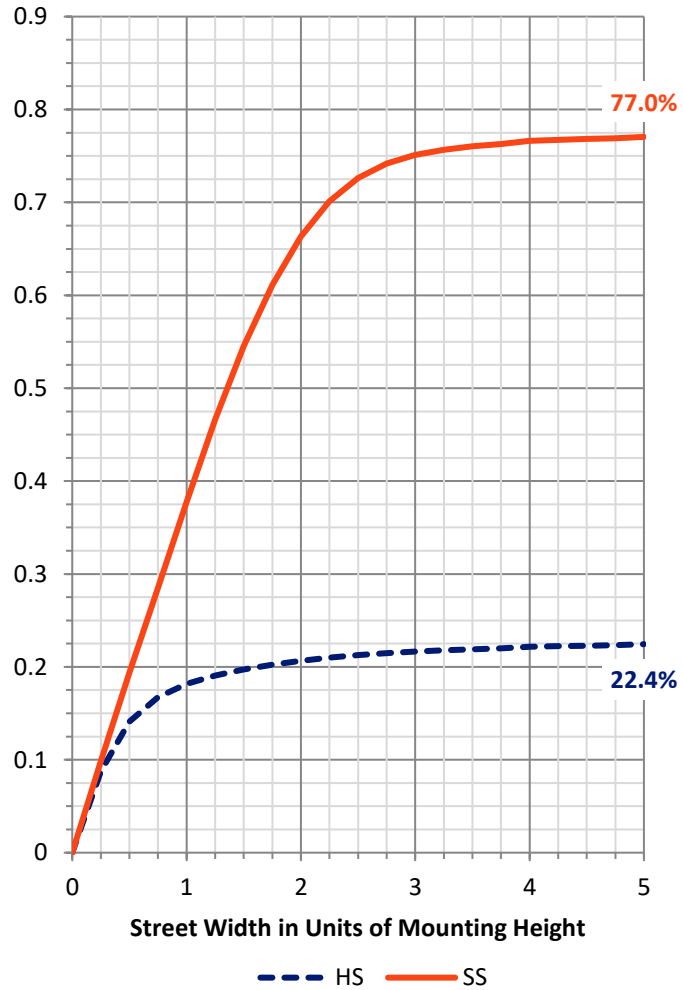
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4718.5	0.0	4718.5
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	15985.0	0.0	15985.0
	% Fixture	77.2	0.0	77.2
Total	Lumens	20703.5	0.0	20703.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.8	1.0
10°-20°	698.8	3.4
20°-30°	1187.8	5.7
30°-40°	1740.0	8.4
40°-50°	2651.1	12.8
50°-60°	4743.5	22.9
60°-70°	6329.6	30.6
70°-80°	2862.4	13.8
80°-90°	280.4	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°	20703.5	100.0
0°-180°	20703.5	100.0

Coefficient of Utilization



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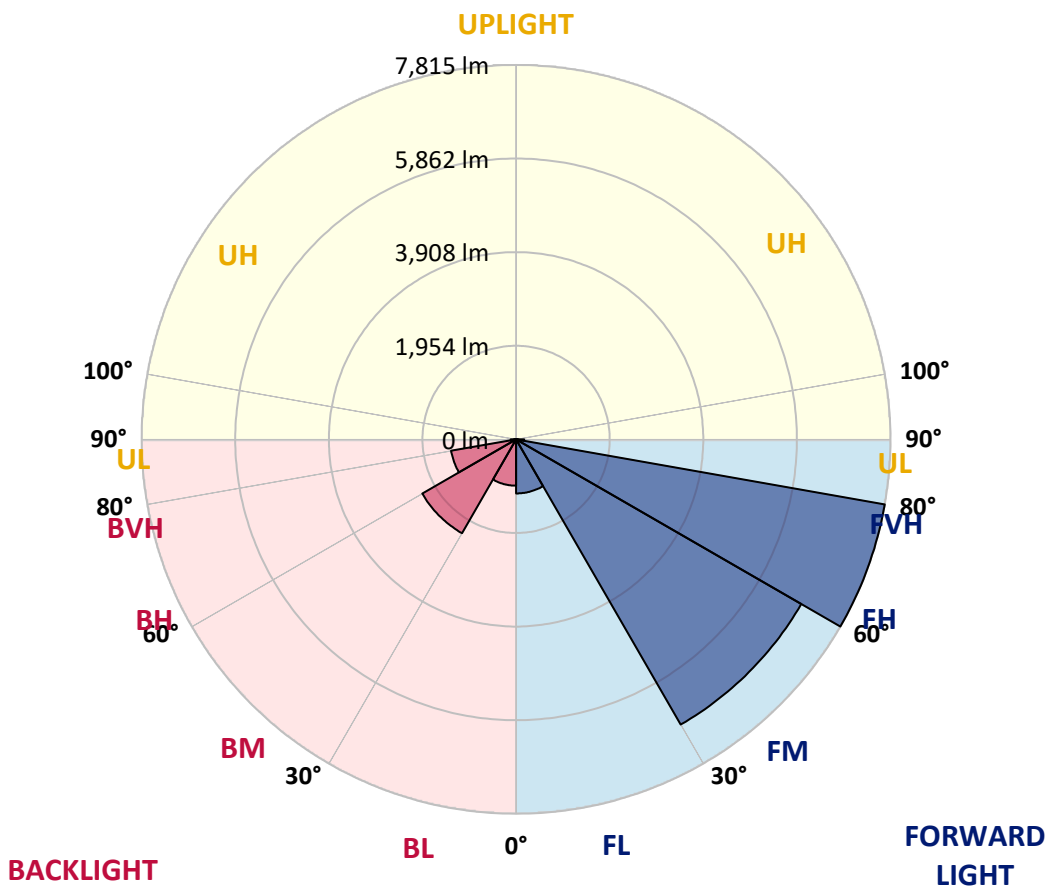
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1129.1	5.5			
FM (30°-60°)	6873.8	33.2			
FH (60°-80°)	7815.3	37.7			G4/12000
FVH (80°-90°)	166.8	0.8			G2/225
BL (0°-30°)	967.3	4.7	B2/1000		
BM (30°-60°)	2260.8	10.9	B2/2500		
BH (60°-80°)	1376.7	6.6	B3/2500		G3/2500
BVH (80°-90°)	113.6	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°	2052.4	2052.4	2052.4	2052.4	2052.4	2052.4	2052.4	2052.4	2052.4	2052.4	2052.4
2.5°	2188.6	2196.1	2194.6	2182.6	2175.1	2161.7	2163.1	2142.2	2110.8	2089.8	2065.8
5°	2381.7	2393.7	2378.7	2359.3	2329.3	2285.9	2281.4	2233.5	2173.6	2131.7	2088.3
7.5°	2549.4	2556.9	2538.9	2506.0	2462.5	2404.2	2393.7	2336.8	2262.0	2196.1	2133.2
10°	2679.6	2688.6	2664.6	2621.2	2564.3	2506.0	2498.5	2440.1	2360.8	2282.9	2203.6
12.5°	2790.4	2793.4	2767.9	2709.6	2648.2	2588.3	2580.8	2526.9	2453.6	2374.2	2287.4
15°	2854.8	2856.3	2824.8	2760.4	2702.1	2649.7	2645.2	2598.8	2531.4	2456.6	2363.7
17.5°	2850.3	2853.3	2830.8	2773.9	2723.0	2691.6	2687.1	2657.2	2604.8	2537.4	2444.6
20°	2794.9	2797.9	2782.9	2745.5	2718.5	2709.6	2711.0	2702.1	2670.6	2615.2	2520.9
22.5°	2751.5	2756.0	2742.5	2715.5	2712.5	2733.5	2738.0	2742.5	2727.5	2678.1	2586.8
25°	2772.4	2779.9	2759.0	2721.5	2727.5	2773.9	2782.9	2797.9	2785.9	2744.0	2664.6
27.5°	2917.6	2922.1	2868.2	2791.9	2773.9	2823.3	2836.8	2860.7	2851.8	2812.8	2751.5
30°	3254.5	3251.5	3136.2	2949.1	2874.2	2893.7	2904.2	2938.6	2941.6	2916.1	2857.8
32.5°	3729.0	3714.0	3535.9	3238.0	3020.9	2973.0	2985.0	3031.4	3065.8	3038.9	2959.5
35°	4230.5	4217.0	4020.9	3672.1	3291.9	3125.7	3112.2	3148.2	3200.6	3125.7	3011.9
37.5°	4708.0	4687.1	4486.5	4055.3	3625.7	3393.7	3374.2	3338.3	3306.8	3163.1	3076.3
40°	5238.0	5214.0	5038.9	4550.8	3994.0	3598.8	3549.4	3407.1	3378.7	3287.4	3244.0
42.5°	5803.8	5803.8	5658.6	5178.1	4438.6	3892.2	3827.8	3613.7	3643.7	3583.8	3532.9
45°	6369.7	6386.2	6270.9	5809.8	5032.9	4446.1	4342.8	4038.9	4110.7	4083.8	4058.3
47.5°	6851.7	6883.2	6860.7	6455.0	5760.4	5119.7	4962.5	4646.7	4800.8	4865.2	4937.1
50°	7371.2	7405.6	7383.2	7223.0	6612.2	5935.6	5794.8	5468.5	5733.5	5926.6	6161.6
52.5°	8142.1	8191.5	8004.4	7943.0	7646.6	6862.2	6736.5	6365.2	6845.7	7166.1	7690.0
55°	8793.3	8791.8	8725.9	8866.7	8757.4	7995.4	7856.2	7519.4	8133.1	8473.0	9239.4
57.5°	9095.7	9131.6	9357.7	9755.9	9974.4	9380.1	9246.9	8902.6	9514.9	9691.5	10519.3
60°	9251.4	9296.3	9733.4	10520.8	11109.2	10892.1	10839.7	10401.1	10745.4	10724.4	11598.7
62.5°	9032.8	9122.7	9824.7	10871.1	11919.0	12411.5	12395.1	11731.9	11791.8	11586.7	12267.8
65°	8029.8	8127.2	9228.9	10696.0	12381.6	13567.2	13571.7	12937.0	12595.7	12005.9	12155.6
67.5°	5742.5	5881.7	7243.9	9570.3	12218.4	14191.5	14243.9	13483.4	12784.3	11634.6	10975.9
70°	3130.2	3232.0	4299.4	6956.5	10748.4	14041.8	14139.1	13219.9	11952.0	10064.3	8449.0
72.5°	1422.1	1455.1	2000.0	3817.3	7342.7	12086.7	12493.9	11797.8	9815.8	7434.0	5372.7
75°	651.2	666.2	871.2	1826.3	3836.8	8088.2	8374.2	8787.3	6830.8	4694.6	2800.9
77.5°	408.7	413.2	495.5	835.3	1913.2	4037.4	4338.3	5232.0	4000.0	2323.3	1170.6
80°	241.0	245.5	308.4	452.1	898.2	1847.3	2133.2	2068.8	1880.2	1003.0	532.9
82.5°	121.3	125.7	178.1	257.5	489.5	735.0	865.3	869.8	700.6	543.4	300.9
85°	43.4	44.9	58.4	101.8	208.1	242.5	271.0	330.8	342.8	315.9	145.2
87.5°	0.0	0.0	1.5	3.0	6.0	24.0	25.4	47.9	100.3	112.3	58.4
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°	2052.4	2052.4	2052.4	2052.4	2052.4	2052.4	2052.4	2052.4	2052.4	2052.4	2052.4
2.5°	2058.4	2035.9	2028.4	2020.9	2009.0	2004.5	1995.5	1986.5	1986.5	1977.5	1973.0
5°	2068.8	2038.9	2019.4	2010.5	2003.0	2007.5	2007.5	2010.5	2020.9	2014.9	2017.9
7.5°	2106.3	2071.8	2044.9	2037.4	2037.4	2055.4	2067.3	2082.3	2101.8	2104.8	2104.8
10°	2172.1	2131.7	2103.3	2098.8	2106.3	2131.7	2149.7	2167.6	2191.6	2193.1	2196.1
12.5°	2244.0	2203.6	2175.1	2181.1	2188.6	2221.5	2241.0	2256.0	2279.9	2279.9	2278.4
15°	2318.8	2273.9	2250.0	2262.0	2284.4	2321.8	2324.8	2326.3	2338.3	2335.3	2333.8
17.5°	2396.7	2348.8	2330.8	2348.8	2372.7	2390.7	2375.7	2354.8	2350.3	2344.3	2341.3
20°	2473.0	2423.6	2416.1	2429.6	2437.1	2422.1	2375.7	2336.8	2318.8	2309.9	2306.9
22.5°	2538.9	2497.0	2492.5	2492.5	2455.1	2402.7	2333.8	2281.4	2257.5	2245.5	2242.5
25°	2616.7	2577.8	2570.3	2529.9	2434.1	2338.3	2245.5	2197.6	2178.1	2172.1	2173.6
27.5°	2708.1	2681.1	2657.2	2541.9	2374.2	2224.5	2119.7	2098.8	2091.3	2098.8	2103.3
30°	2820.3	2793.4	2739.5	2526.9	2278.4	2076.3	1976.0	1974.5	1997.0	2016.4	2019.4
32.5°	2911.6	2899.7	2811.3	2479.0	2143.7	1913.2	1827.8	1833.8	1874.2	1901.2	1905.7
35°	2983.5	3003.0	2871.2	2399.7	1983.5	1759.0	1691.6	1694.6	1717.0	1754.5	1756.0
37.5°	3085.3	3151.2	2925.1	2278.4	1799.4	1625.7	1564.4	1541.9	1538.9	1549.4	1552.4
40°	3290.4	3389.2	2964.0	2101.8	1621.2	1506.0	1437.1	1393.7	1356.3	1327.8	1318.8
42.5°	3600.3	3714.0	2986.5	1887.7	1462.6	1387.7	1309.9	1254.5	1188.6	1128.7	1107.8
45°	4169.1	4206.5	2986.5	1660.2	1321.8	1276.9	1199.1	1133.2	1049.4	979.0	964.1
47.5°	5079.3	4959.5	2989.5	1440.1	1197.6	1179.6	1112.3	1037.4	944.6	886.2	877.2
50°	6450.5	6029.9	3050.9	1257.5	1094.3	1097.3	1047.9	965.6	881.7	838.3	830.8
52.5°	8004.4	7348.7	3215.5	1122.7	1007.5	1029.9	1003.0	923.6	848.8	811.4	803.9
55°	9465.5	8561.3	3356.2	1026.9	934.1	973.0	971.5	898.2	830.8	793.4	788.9
57.5°	10708.0	9392.1	3335.3	949.1	871.2	920.6	943.1	881.7	818.9	787.4	782.9
60°	11480.4	9832.2	3037.4	877.2	823.3	883.2	926.6	877.2	824.8	817.4	818.9
62.5°	11815.7	9751.4	2465.5	823.3	791.9	865.3	944.6	908.7	880.2	898.2	908.7
65°	11294.8	9056.8	1814.4	782.9	762.0	869.8	986.5	958.1	880.2	892.2	896.7
67.5°	9848.7	7709.5	1311.4	742.5	724.5	883.2	1046.4	950.6	829.3	829.3	820.4
70°	7097.2	5544.8	952.1	702.1	687.1	863.8	1049.4	899.7	770.9	766.5	744.0
72.5°	4270.9	3270.9	742.5	657.2	630.2	766.5	983.5	839.8	714.1	676.6	649.7
75°	2218.5	1639.2	622.7	607.8	540.4	649.7	899.7	747.0	610.8	577.8	562.9
77.5°	950.6	766.5	534.4	541.9	449.1	546.4	726.0	646.7	541.9	500.0	486.5
80°	468.6	435.6	422.2	434.1	359.3	422.2	625.7	565.9	459.6	411.7	392.2
82.5°	268.0	254.5	303.9	308.4	256.0	353.3	528.4	479.0	380.2	327.8	296.4
85°	124.3	133.2	184.1	185.6	158.7	242.5	345.8	269.5	202.1	167.7	160.2
87.5°	49.4	58.4	80.8	79.3	46.4	44.9	29.9	16.5	13.5	12.0	10.5
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)