

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: P635812

Luminaire Tested: GWS-SA3E-740-U-T4W-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P635812
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-740-U-T4W-W
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: (48) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21803.1 lumens
Efficiency: N/A
Efficacy: 137.0 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

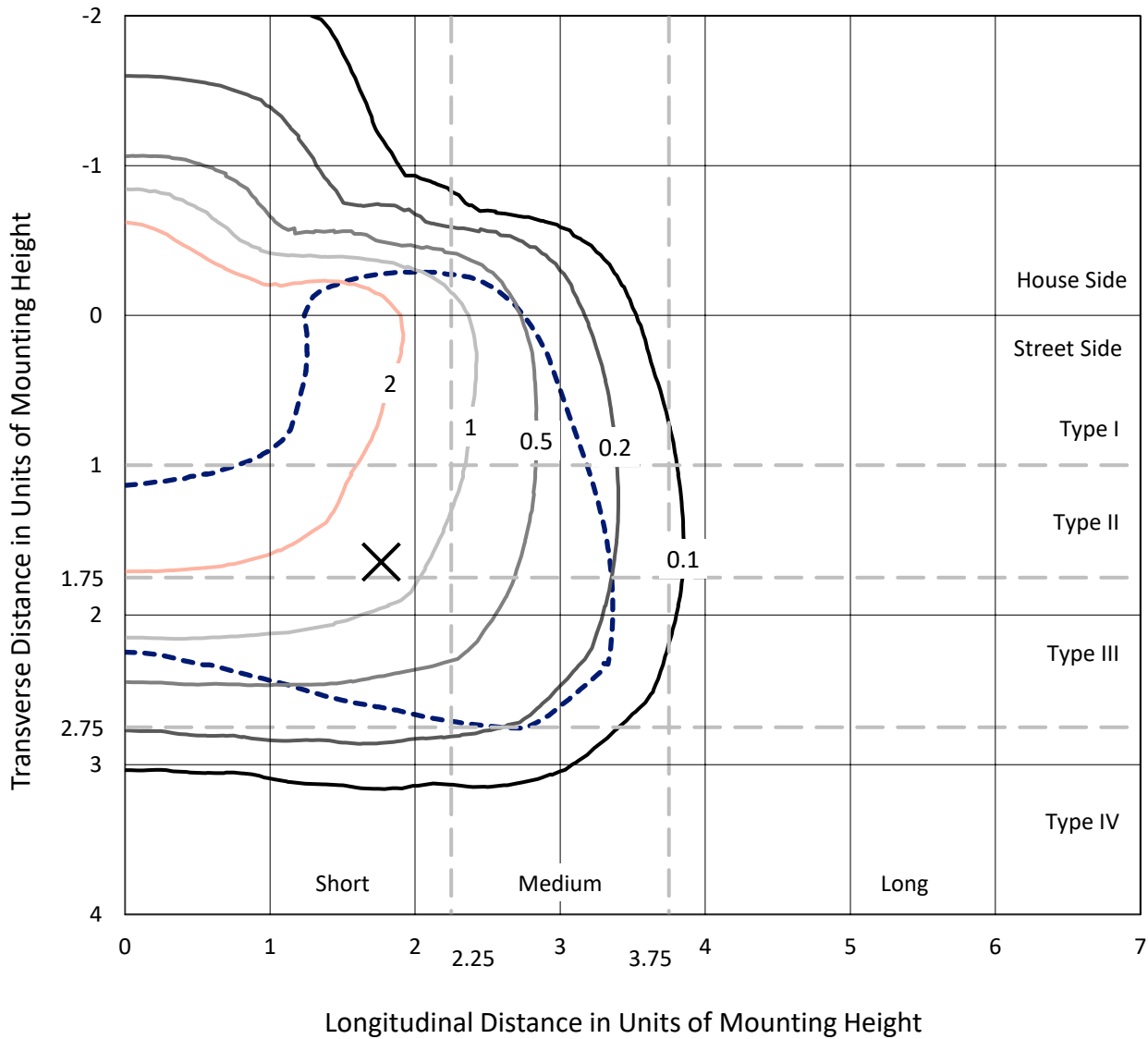
Input Watts (W): 159.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

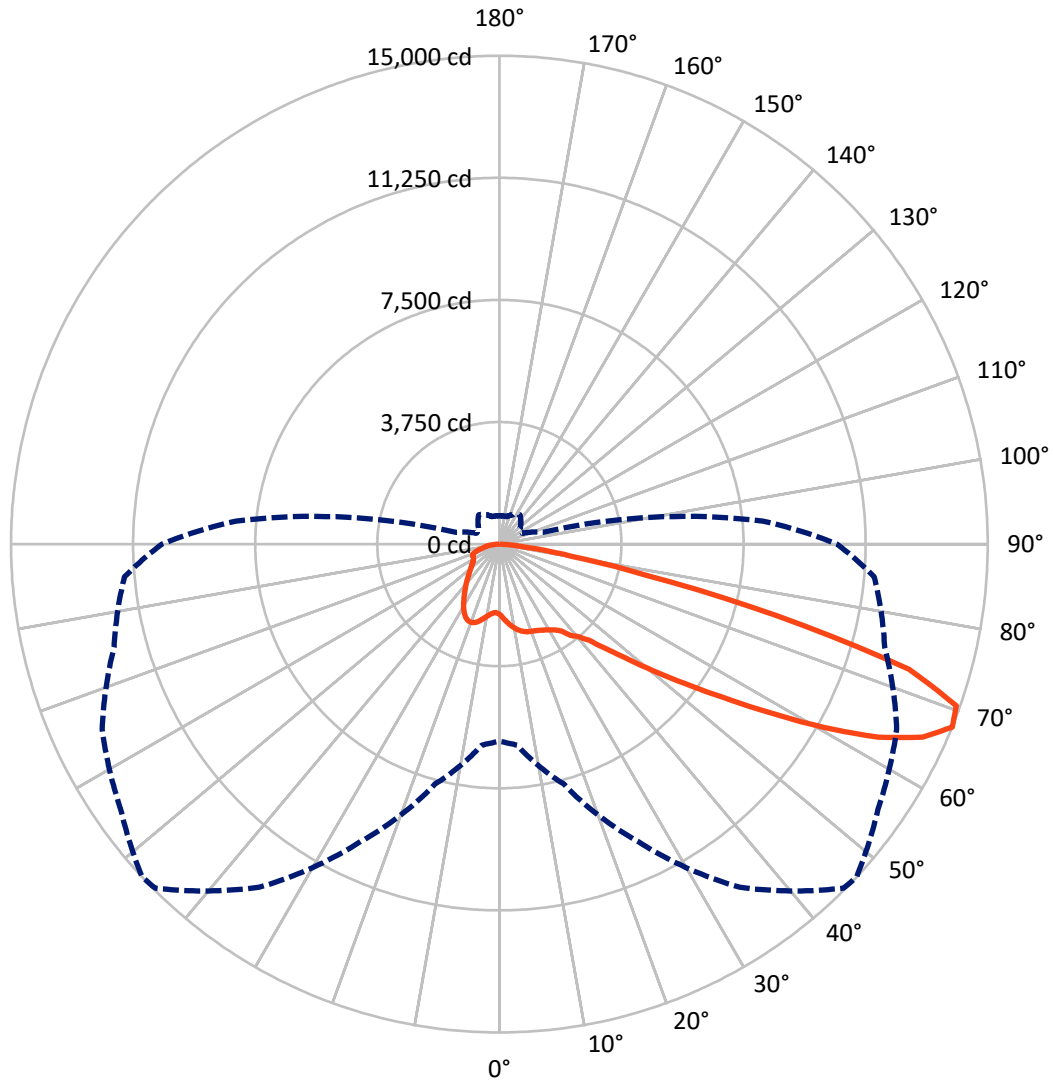
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 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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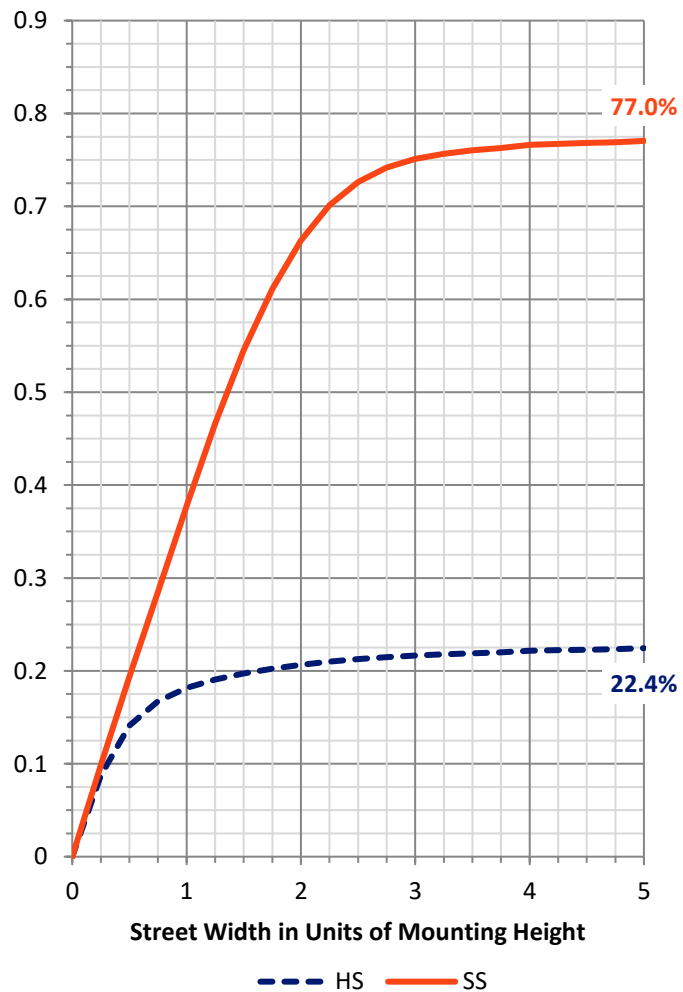
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4969.1	0.0	4969.1
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	16834.0	0.0	16834.0
	% Fixture	77.2	0.0	77.2
Total	Lumens	21803.1	0.0	21803.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.9	1.0
10°-20°	735.9	3.4
20°-30°	1250.9	5.7
30°-40°	1832.4	8.4
40°-50°	2791.9	12.8
50°-60°	4995.4	22.9
60°-70°	6665.8	30.6
70°-80°	3014.4	13.8
80°-90°	295.3	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°	21803.1	100.0
0°-180°	21803.1	100.0

Coefficient of Utilization



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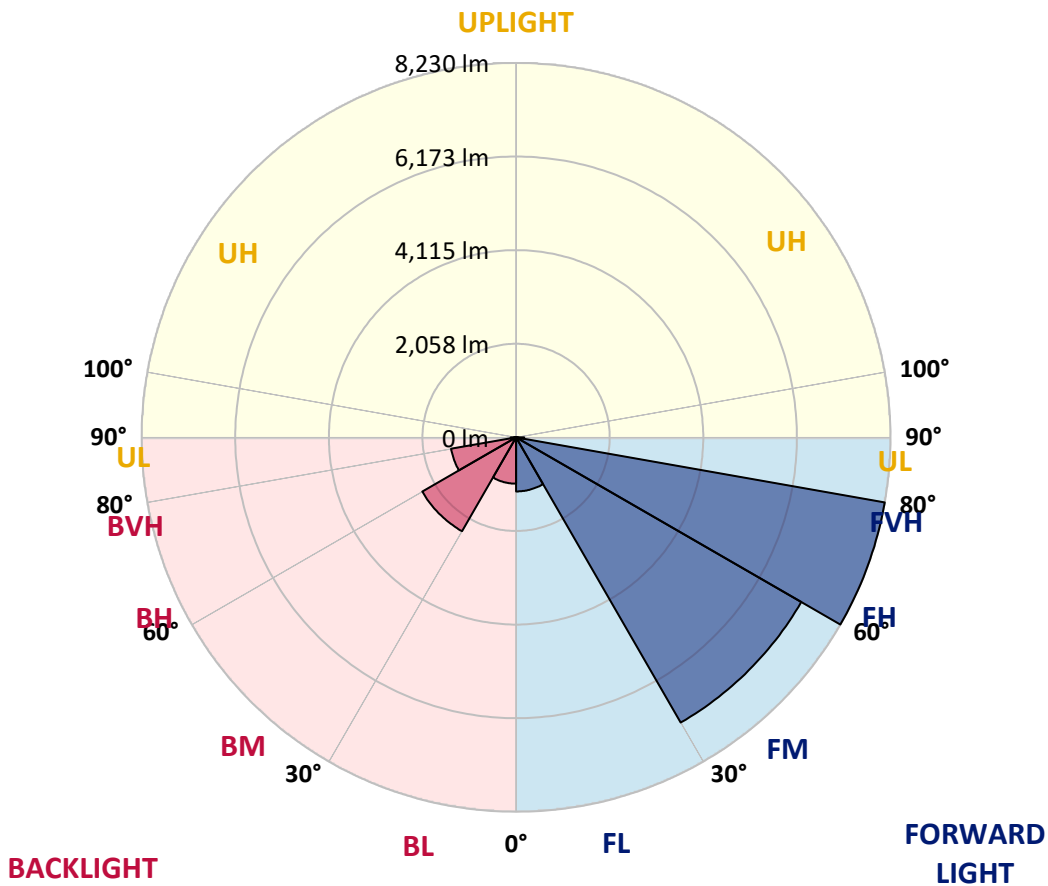
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1189.1	5.5			
FM (30°-60°)	7238.9	33.2			
FH (60°-80°)	8230.4	37.7			G4/12000
FVH (80°-90°)	175.7	0.8			G2/225
BL (0°-30°)	1018.7	4.7	B3/2500		
BM (30°-60°)	2380.9	10.9	B2/2500		
BH (60°-80°)	1449.8	6.6	B3/2500		G3/2500
BVH (80°-90°)	119.7	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°	2161.4	2161.4	2161.4	2161.4	2161.4	2161.4	2161.4	2161.4	2161.4	2161.4	2161.4
2.5°	2304.8	2312.7	2311.1	2298.5	2290.6	2276.5	2278.0	2256.0	2222.9	2200.8	2175.6
5°	2508.2	2520.8	2505.1	2484.6	2453.0	2407.3	2402.6	2352.1	2289.1	2244.9	2199.2
7.5°	2684.8	2692.7	2673.7	2639.1	2593.3	2531.9	2520.8	2460.9	2382.1	2312.7	2246.5
10°	2821.9	2831.4	2806.2	2760.4	2700.5	2639.1	2631.2	2569.7	2486.1	2404.2	2320.6
12.5°	2938.6	2941.7	2914.9	2853.5	2788.8	2725.8	2717.9	2661.1	2583.9	2500.3	2408.9
15°	3006.4	3008.0	2974.8	2907.1	2845.6	2790.4	2785.7	2736.8	2665.9	2587.0	2489.3
17.5°	3001.7	3004.8	2981.2	2921.2	2867.6	2834.5	2829.8	2798.3	2743.1	2672.2	2574.4
20°	2943.3	2946.5	2930.7	2891.3	2862.9	2853.5	2855.0	2845.6	2812.5	2754.1	2654.8
22.5°	2897.6	2902.3	2888.1	2859.8	2856.6	2878.7	2883.4	2888.1	2872.4	2820.4	2724.2
25°	2919.7	2927.6	2905.5	2866.1	2872.4	2921.2	2930.7	2946.5	2933.9	2889.7	2806.2
27.5°	3072.6	3077.3	3020.6	2940.2	2921.2	2973.3	2987.5	3012.7	3003.2	2962.2	2897.6
30°	3427.3	3424.2	3302.8	3105.7	3026.9	3047.4	3058.4	3094.7	3097.8	3071.0	3009.5
32.5°	3927.1	3911.3	3723.7	3410.0	3181.4	3130.9	3143.5	3192.4	3228.7	3200.3	3116.7
35°	4455.2	4441.0	4234.5	3867.1	3466.7	3291.7	3277.5	3315.4	3370.6	3291.7	3171.9
37.5°	4958.1	4936.0	4724.8	4270.7	3818.3	3573.9	3553.4	3515.6	3482.5	3331.1	3239.7
40°	5516.2	5490.9	5306.5	4792.6	4206.1	3789.9	3737.9	3588.1	3558.2	3462.0	3416.3
42.5°	6112.1	6112.1	5959.2	5453.1	4674.3	4098.9	4031.1	3805.7	3837.2	3774.1	3720.5
45°	6708.0	6725.3	6603.9	6118.4	5300.2	4682.2	4573.4	4253.4	4329.1	4300.7	4273.9
47.5°	7215.6	7248.7	7225.1	6797.9	6066.4	5391.6	5226.1	4893.4	5055.8	5123.6	5199.3
50°	7762.7	7798.9	7775.3	7606.6	6963.4	6250.8	6102.6	5758.9	6038.0	6241.4	6488.9
52.5°	8574.6	8626.6	8429.5	8364.9	8052.7	7226.7	7094.2	6703.3	7209.3	7546.7	8098.5
55°	9260.3	9258.8	9189.4	9337.6	9222.5	8420.1	8273.5	7918.7	8565.1	8923.0	9730.1
57.5°	9578.8	9616.6	9854.7	10274.0	10504.2	9878.3	9738.0	9375.4	10020.2	10206.2	11078.0
60°	9742.8	9790.0	10250.4	11079.6	11699.2	11470.6	11415.4	10953.5	11316.1	11294.0	12214.7
62.5°	9512.6	9607.2	10346.5	11448.5	12552.1	13070.7	13053.4	12355.0	12418.1	12202.1	12919.4
65°	8456.3	8558.8	9719.1	11264.1	13039.2	14287.8	14292.5	13624.1	13264.6	12643.5	12801.2
67.5°	6047.4	6194.1	7628.7	10078.5	12867.4	14945.2	15000.4	14199.5	13463.3	12252.5	11558.9
70°	3296.5	3403.7	4527.7	7326.0	11319.2	14787.5	14890.0	13922.0	12586.8	10598.8	8897.7
72.5°	1497.7	1532.4	2106.2	4020.1	7732.7	12728.6	13157.4	12424.4	10337.1	7828.9	5658.0
75°	685.8	701.5	917.5	1923.3	4040.6	8517.8	8818.9	9254.0	7193.6	4943.9	2949.6
77.5°	430.4	435.1	521.8	879.7	2014.8	4251.8	4568.7	5509.9	4212.4	2446.7	1232.8
80°	253.8	258.5	324.8	476.1	945.9	1945.4	2246.5	2178.7	1980.1	1056.3	561.2
82.5°	127.7	132.4	187.6	271.2	515.5	774.1	911.2	915.9	737.8	572.3	316.9
85°	45.7	47.3	61.5	107.2	219.1	255.4	285.3	348.4	361.0	332.6	152.9
87.5°	0.0	0.0	1.6	3.2	6.3	25.2	26.8	50.4	105.6	118.2	61.5
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°	2161.4	2161.4	2161.4	2161.4	2161.4	2161.4	2161.4	2161.4	2161.4	2161.4	2161.4
2.5°	2167.7	2144.0	2136.2	2128.3	2115.7	2110.9	2101.5	2092.0	2092.0	2082.6	2077.8
5°	2178.7	2147.2	2126.7	2117.2	2109.4	2114.1	2114.1	2117.2	2128.3	2122.0	2125.1
7.5°	2218.1	2181.9	2153.5	2145.6	2145.6	2164.5	2177.1	2192.9	2213.4	2216.6	2216.6
10°	2287.5	2244.9	2215.0	2210.2	2218.1	2244.9	2263.8	2282.8	2308.0	2309.6	2312.7
12.5°	2363.2	2320.6	2290.6	2297.0	2304.8	2339.5	2360.0	2375.8	2401.0	2401.0	2399.4
15°	2442.0	2394.7	2369.5	2382.1	2405.7	2445.1	2448.3	2449.9	2462.5	2459.3	2457.8
17.5°	2524.0	2473.5	2454.6	2473.5	2498.7	2517.7	2501.9	2479.8	2475.1	2468.8	2465.6
20°	2604.4	2552.3	2544.5	2558.7	2566.5	2550.8	2501.9	2460.9	2442.0	2432.5	2429.4
22.5°	2673.7	2629.6	2624.9	2624.9	2585.5	2530.3	2457.8	2402.6	2377.4	2364.7	2361.6
25°	2755.7	2714.7	2706.8	2664.3	2563.4	2462.5	2364.7	2314.3	2293.8	2287.5	2289.1
27.5°	2851.9	2823.5	2798.3	2676.9	2500.3	2342.7	2232.3	2210.2	2202.4	2210.2	2215.0
30°	2970.1	2941.7	2885.0	2661.1	2399.4	2186.6	2081.0	2079.4	2103.0	2123.5	2126.7
32.5°	3066.3	3053.7	2960.7	2610.7	2257.5	2014.8	1924.9	1931.2	1973.8	2002.2	2006.9
35°	3142.0	3162.5	3023.7	2527.1	2088.9	1852.4	1781.4	1784.6	1808.2	1847.7	1849.2
37.5°	3249.2	3318.5	3080.5	2399.4	1894.9	1712.1	1647.4	1623.8	1620.6	1631.7	1634.8
40°	3465.1	3569.2	3121.5	2213.4	1707.3	1586.0	1513.4	1467.7	1428.3	1398.4	1388.9
42.5°	3791.5	3911.3	3145.1	1988.0	1540.2	1461.4	1379.4	1321.1	1251.7	1188.7	1166.6
45°	4390.5	4430.0	3145.1	1748.3	1392.0	1344.8	1262.8	1193.4	1105.1	1031.0	1015.3
47.5°	5349.1	5222.9	3148.3	1516.6	1261.2	1242.3	1171.3	1092.5	994.8	933.3	923.8
50°	6793.1	6350.1	3212.9	1324.3	1152.4	1155.6	1103.5	1016.8	928.6	882.8	875.0
52.5°	8429.5	7739.0	3386.3	1182.4	1061.0	1084.6	1056.3	972.7	893.9	854.5	846.6
55°	9968.2	9016.0	3534.5	1081.5	983.7	1024.7	1023.1	945.9	875.0	835.5	830.8
57.5°	11276.7	9890.9	3512.4	999.5	917.5	969.5	993.2	928.6	862.3	829.2	824.5
60°	12090.2	10354.4	3198.7	923.8	867.1	930.1	975.9	923.8	868.6	860.8	862.3
62.5°	12443.3	10269.3	2596.5	867.1	834.0	911.2	994.8	956.9	927.0	945.9	956.9
65°	11894.7	9537.8	1910.7	824.5	802.4	915.9	1038.9	1009.0	927.0	939.6	944.3
67.5°	10371.8	8119.0	1381.0	781.9	763.0	930.1	1102.0	1001.1	873.4	873.4	863.9
70°	7474.2	5839.3	1002.7	739.4	723.6	909.6	1105.1	947.5	811.9	807.2	783.5
72.5°	4497.7	3444.6	781.9	692.1	663.7	807.2	1035.8	884.4	752.0	712.6	684.2
75°	2336.4	1726.3	655.8	640.1	569.1	684.2	947.5	786.7	643.2	608.5	592.8
77.5°	1001.1	807.2	562.8	570.7	472.9	575.4	764.6	681.0	570.7	526.5	512.4
80°	493.4	458.8	444.6	457.2	378.4	444.6	659.0	595.9	484.0	433.5	413.0
82.5°	282.2	268.0	320.0	324.8	269.6	372.1	556.5	504.5	400.4	345.3	312.1
85°	130.8	140.3	193.9	195.5	167.1	255.4	364.2	283.8	212.8	176.6	168.7
87.5°	52.0	61.5	85.1	83.6	48.9	47.3	31.5	17.3	14.2	12.6	11.0
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)