

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: P638507

Luminaire Tested: GWS-SA4E-830-U-T4W-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638507
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-SA4E-830-U-T4W-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24102.1 lumens
Efficiency: N/A
Efficacy: 119.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

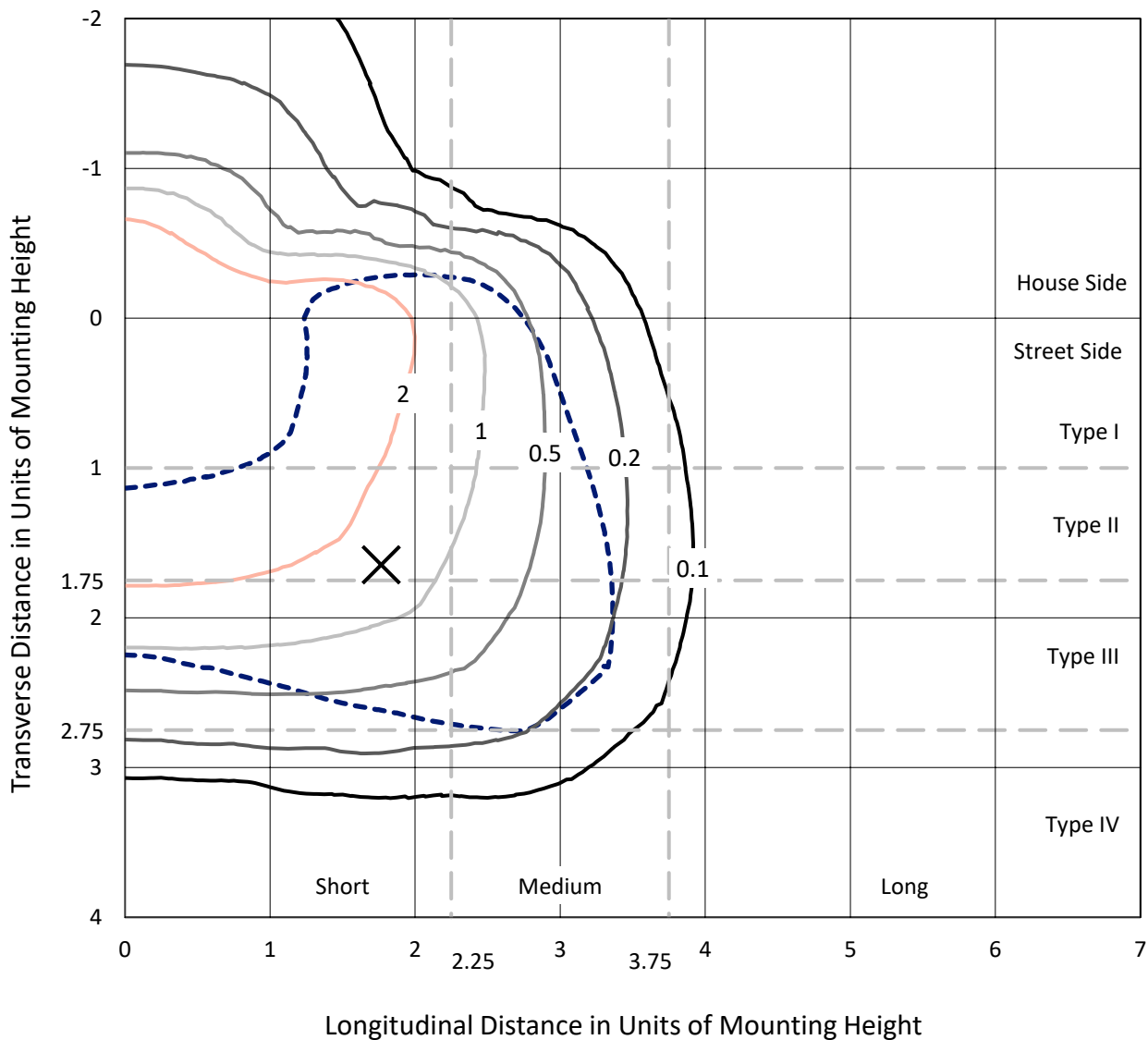
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

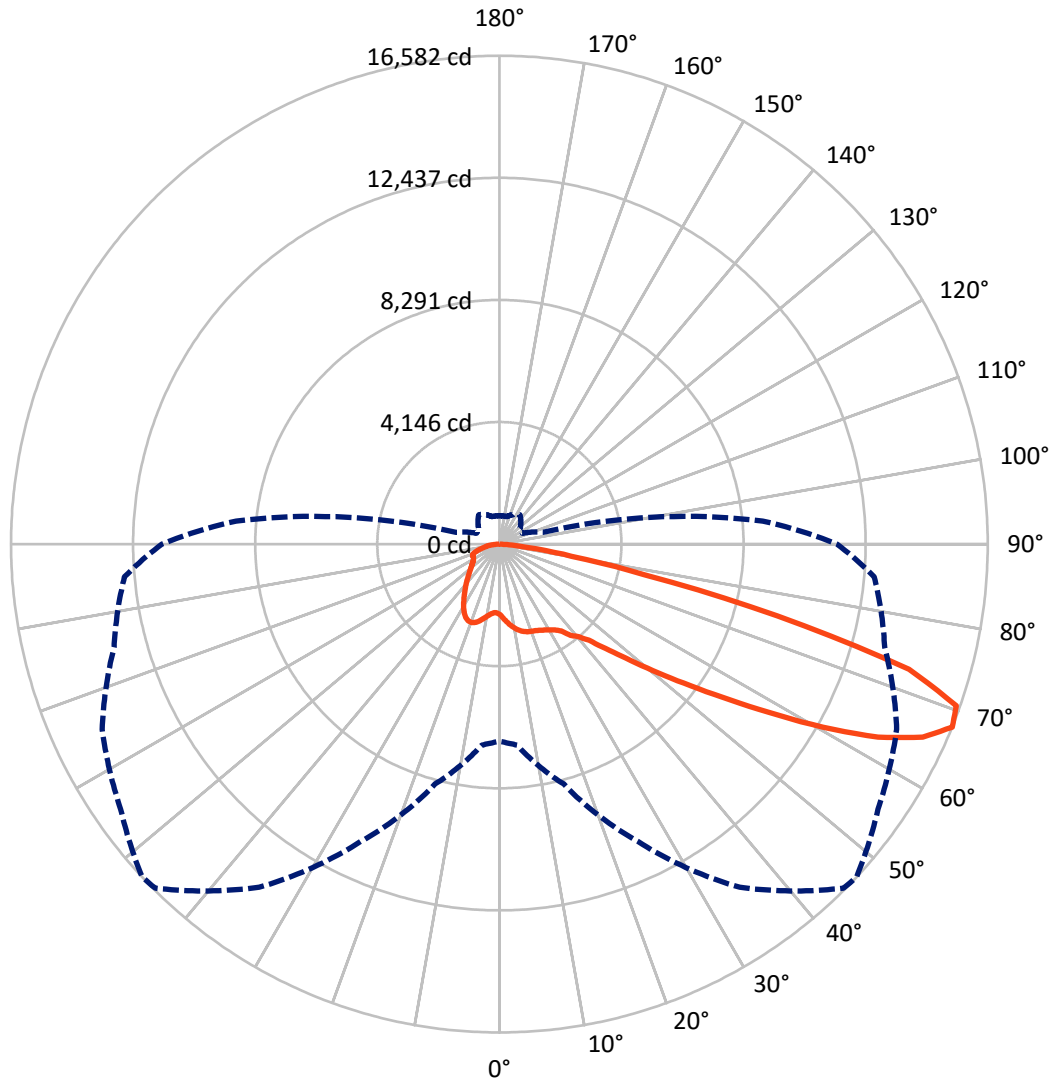
✕ Max cd
 - - - 1/2 Max cd



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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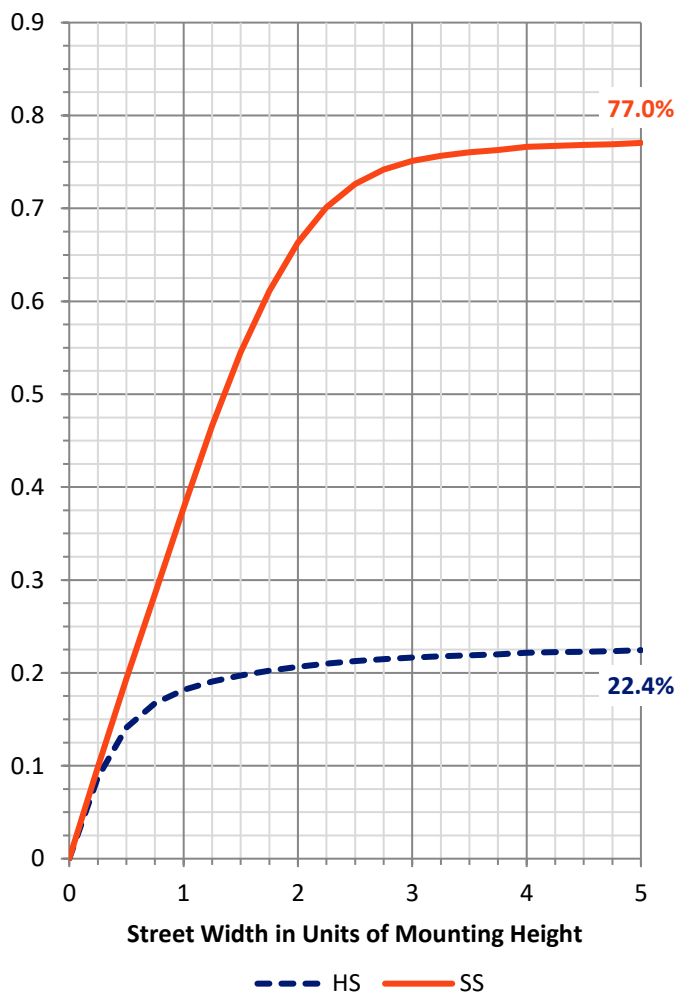
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5493.1	0.0	5493.1
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	18609.1	0.0	18609.1
	% Fixture	77.2	0.0	77.2
Total	Lumens	24102.1	0.0	24102.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.2	1.0
10°-20°	813.5	3.4
20°-30°	1382.8	5.7
30°-40°	2025.7	8.4
40°-50°	3086.3	12.8
50°-60°	5522.1	22.9
60°-70°	7368.7	30.6
70°-80°	3332.3	13.8
80°-90°	326.5	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°	24102.1	100.0
0°-180°	24102.1	100.0

Coefficient of Utilization



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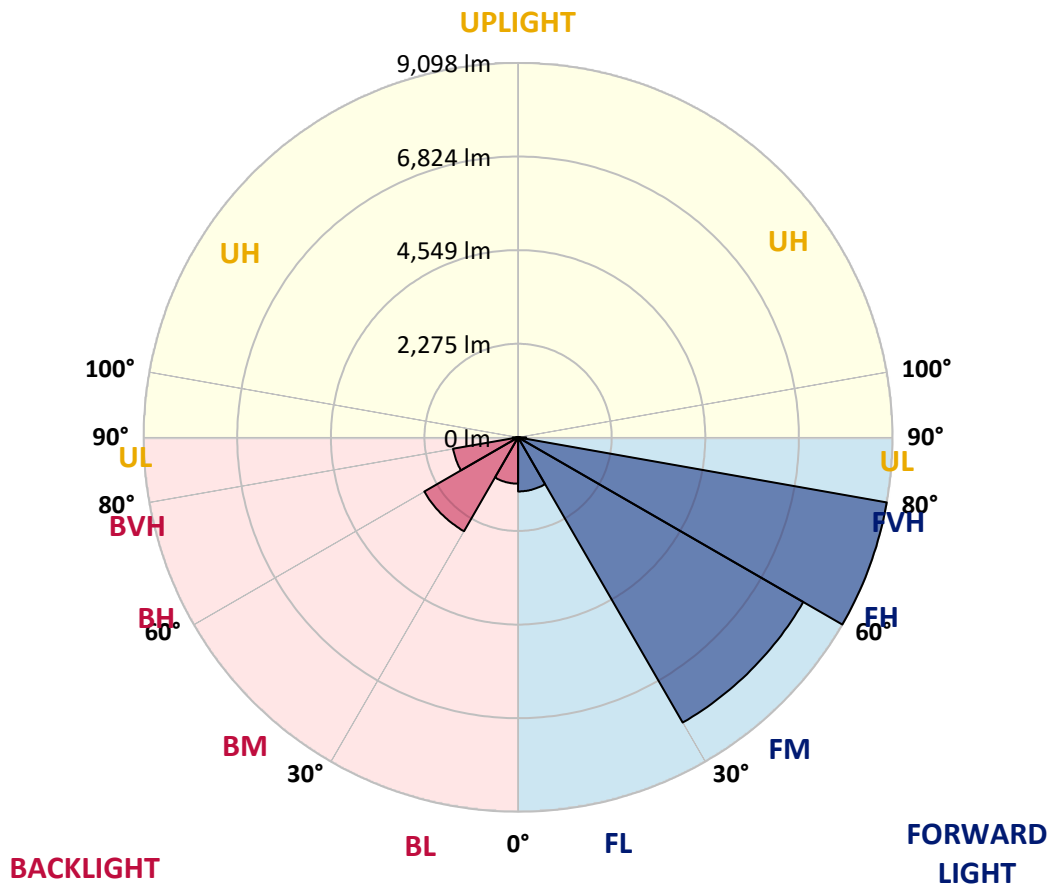
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1314.4	5.5			
FM (30°-60°)	8002.1	33.2			
FH (60°-80°)	9098.3	37.7			G4/12000
FVH (80°-90°)	194.2	0.8			G2/225
BL (0°-30°)	1126.1	4.7	B3/2500		
BM (30°-60°)	2632.0	10.9	B3/5000		
BH (60°-80°)	1602.7	6.6	B3/2500		G3/2500
BVH (80°-90°)	132.3	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°	2389.3	2389.3	2389.3	2389.3	2389.3	2389.3	2389.3	2389.3	2389.3	2389.3	2389.3
2.5°	2547.9	2556.6	2554.8	2540.9	2532.2	2516.5	2518.2	2493.8	2457.2	2432.8	2405.0
5°	2772.7	2786.6	2769.2	2746.5	2711.7	2661.1	2655.9	2600.2	2530.4	2481.6	2431.1
7.5°	2967.9	2976.6	2955.7	2917.3	2866.8	2798.8	2786.6	2720.4	2633.3	2556.6	2483.4
10°	3119.5	3129.9	3102.1	3051.5	2985.3	2917.3	2908.6	2840.6	2748.3	2657.7	2565.3
12.5°	3248.4	3251.9	3222.3	3154.3	3082.9	3013.2	3004.5	2941.7	2856.3	2764.0	2662.9
15°	3323.4	3325.1	3288.5	3213.6	3145.6	3084.6	3079.4	3025.4	2947.0	2859.8	2751.8
17.5°	3318.2	3321.6	3295.5	3229.3	3170.0	3133.4	3128.2	3093.3	3032.3	2953.9	2845.9
20°	3253.7	3257.2	3239.7	3196.2	3164.8	3154.3	3156.1	3145.6	3109.0	3044.5	2934.8
22.5°	3203.1	3208.4	3192.7	3161.3	3157.8	3182.2	3187.5	3192.7	3175.3	3117.7	3011.4
25°	3227.5	3236.2	3211.8	3168.3	3175.3	3229.3	3239.7	3257.2	3243.2	3194.4	3102.1
27.5°	3396.6	3401.8	3339.1	3250.2	3229.3	3286.8	3302.5	3330.4	3319.9	3274.6	3203.1
30°	3788.7	3785.2	3651.0	3433.2	3346.0	3368.7	3380.9	3421.0	3424.5	3394.8	3326.9
32.5°	4341.1	4323.7	4116.3	3769.5	3516.8	3461.1	3475.0	3529.0	3569.1	3537.7	3445.4
35°	4925.0	4909.3	4681.0	4274.9	3832.3	3638.8	3623.1	3665.0	3726.0	3638.8	3506.4
37.5°	5480.9	5456.5	5223.0	4721.1	4220.9	3950.8	3928.1	3886.3	3849.7	3682.4	3581.3
40°	6097.8	6069.9	5866.0	5297.9	4649.6	4189.5	4132.0	3966.5	3933.3	3827.0	3776.5
42.5°	6756.6	6756.6	6587.5	6028.1	5167.2	4531.1	4456.2	4206.9	4241.8	4172.1	4112.8
45°	7415.3	7434.5	7300.3	6763.5	5859.1	5175.9	5055.7	4701.9	4785.5	4754.2	4724.5
47.5°	7976.5	8013.1	7986.9	7514.6	6706.0	5960.1	5777.1	5409.4	5588.9	5663.9	5747.5
50°	8581.2	8621.3	8595.1	8408.7	7697.6	6909.9	6746.1	6366.2	6674.7	6899.5	7173.1
52.5°	9478.7	9536.2	9318.4	9246.9	8901.9	7988.7	7842.3	7410.1	7969.5	8342.4	8952.4
55°	10236.8	10235.0	10158.4	10322.2	10195.0	9307.9	9145.8	8753.7	9468.2	9863.8	10756.1
57.5°	10588.8	10630.6	10893.8	11357.4	11611.8	10919.9	10764.8	10364.0	11076.8	11282.4	12246.2
60°	10770.1	10822.3	11331.2	12247.9	12932.8	12680.1	12619.1	12108.5	12509.3	12484.9	13502.7
62.5°	10515.6	10620.2	11437.5	12655.7	13875.6	14449.0	14429.8	13657.8	13727.5	13488.7	14281.7
65°	9348.0	9461.3	10743.9	12451.8	14414.1	15794.3	15799.6	15060.7	14663.3	13976.7	14151.0
67.5°	6685.1	6847.2	8433.1	11141.3	14224.2	16521.1	16582.1	15696.8	14882.9	13544.5	12777.7
70°	3644.0	3762.6	5005.1	8098.5	12512.8	16346.8	16460.1	15390.0	13913.9	11716.4	9836.0
72.5°	1655.6	1693.9	2328.3	4444.0	8548.1	14070.8	14544.8	13734.4	11427.1	8654.4	6254.7
75°	758.1	775.5	1014.3	2126.1	4466.6	9416.0	9748.8	10229.8	7952.1	5465.2	3260.6
77.5°	475.8	481.0	576.8	972.4	2227.2	4700.1	5050.4	6090.8	4656.6	2704.7	1362.8
80°	280.6	285.8	359.0	526.3	1045.6	2150.5	2483.4	2408.5	2188.9	1167.6	620.4
82.5°	141.2	146.4	207.4	299.7	569.9	855.7	1007.3	1012.5	815.6	632.6	350.3
85°	50.5	52.3	68.0	118.5	242.2	282.3	315.4	385.1	399.1	367.7	169.0
87.5°	0.0	0.0	1.7	3.5	7.0	27.9	29.6	55.8	116.8	130.7	68.0
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°	2389.3	2389.3	2389.3	2389.3	2389.3	2389.3	2389.3	2389.3	2389.3	2389.3	2389.3
2.5°	2396.3	2370.1	2361.4	2352.7	2338.7	2333.5	2323.1	2312.6	2312.6	2302.1	2296.9
5°	2408.5	2373.6	2350.9	2340.5	2331.8	2337.0	2337.0	2340.5	2352.7	2345.7	2349.2
7.5°	2452.0	2411.9	2380.6	2371.9	2371.9	2392.8	2406.7	2424.1	2446.8	2450.3	2450.3
10°	2528.7	2481.6	2448.5	2443.3	2452.0	2481.6	2502.6	2523.5	2551.4	2553.1	2556.6
12.5°	2612.4	2565.3	2532.2	2539.2	2547.9	2586.2	2608.9	2626.3	2654.2	2654.2	2652.4
15°	2699.5	2647.2	2619.3	2633.3	2659.4	2703.0	2706.5	2708.2	2722.1	2718.7	2716.9
17.5°	2790.1	2734.3	2713.4	2734.3	2762.2	2783.1	2765.7	2741.3	2736.1	2729.1	2725.6
20°	2879.0	2821.5	2812.8	2828.4	2837.2	2819.7	2765.7	2720.4	2699.5	2689.0	2685.5
22.5°	2955.7	2906.9	2901.6	2901.6	2858.1	2797.1	2716.9	2655.9	2628.0	2614.1	2610.6
25°	3046.3	3001.0	2992.3	2945.2	2833.7	2722.1	2614.1	2558.3	2535.7	2528.7	2530.4
27.5°	3152.6	3121.2	3093.3	2959.2	2764.0	2589.7	2467.7	2443.3	2434.6	2443.3	2448.5
30°	3283.3	3251.9	3189.2	2941.7	2652.4	2417.2	2300.4	2298.7	2324.8	2347.5	2350.9
32.5°	3389.6	3375.7	3272.8	2886.0	2495.6	2227.2	2127.9	2134.8	2181.9	2213.3	2218.5
35°	3473.3	3495.9	3342.6	2793.6	2309.1	2047.7	1969.3	1972.8	1998.9	2042.5	2044.2
37.5°	3591.8	3668.4	3405.3	2652.4	2094.8	1892.6	1821.2	1795.0	1791.5	1803.7	1807.2
40°	3830.5	3945.5	3450.6	2446.8	1887.4	1753.2	1673.0	1622.5	1578.9	1545.8	1535.3
42.5°	4191.3	4323.7	3476.7	2197.6	1702.6	1615.5	1524.9	1460.4	1383.7	1314.0	1289.6
45°	4853.5	4897.1	3476.7	1932.7	1538.8	1486.5	1395.9	1319.2	1221.7	1139.7	1122.3
47.5°	5913.1	5773.7	3480.2	1676.5	1394.2	1373.3	1294.8	1207.7	1099.7	1031.7	1021.2
50°	7509.4	7019.7	3551.7	1463.9	1273.9	1277.4	1219.9	1124.1	1026.5	975.9	967.2
52.5°	9318.4	8555.1	3743.4	1307.0	1172.9	1199.0	1167.6	1075.3	988.1	944.6	935.8
55°	11019.3	9966.7	3907.2	1195.5	1087.5	1132.8	1131.0	1045.6	967.2	923.6	918.4
57.5°	12465.7	10933.9	3882.8	1104.9	1014.3	1071.8	1097.9	1026.5	953.3	916.7	911.4
60°	13365.0	11446.2	3536.0	1021.2	958.5	1028.2	1078.7	1021.2	960.2	951.5	953.3
62.5°	13755.4	11352.1	2870.3	958.5	921.9	1007.3	1099.7	1057.8	1024.7	1045.6	1057.8
65°	13148.9	10543.5	2112.2	911.4	887.0	1012.5	1148.5	1115.3	1024.7	1038.7	1043.9
67.5°	11465.4	8975.1	1526.6	864.4	843.5	1028.2	1218.2	1106.6	965.5	965.5	955.0
70°	8262.3	6455.1	1108.4	817.3	799.9	1005.6	1221.7	1047.4	897.5	892.3	866.1
72.5°	4972.0	3807.9	864.4	765.1	733.7	892.3	1145.0	977.7	831.3	787.7	756.3
75°	2582.7	1908.3	725.0	707.5	629.1	756.3	1047.4	869.6	711.0	672.7	655.3
77.5°	1106.6	892.3	622.2	630.9	522.8	636.1	845.2	752.9	630.9	582.1	566.4
80°	545.5	507.1	491.4	505.4	418.3	491.4	728.5	658.8	535.0	479.3	456.6
82.5°	311.9	296.3	353.8	359.0	298.0	411.3	615.2	557.7	442.7	381.7	345.1
85°	144.6	155.1	214.4	216.1	184.7	282.3	402.6	313.7	235.3	195.2	186.5
87.5°	57.5	68.0	94.1	92.4	54.0	52.3	34.9	19.2	15.7	13.9	12.2
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)