

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: P638059

Luminaire Tested: GWS-SA4E-722-U-T3-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638059
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-23)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4E-722-U-T3-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22557.1 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

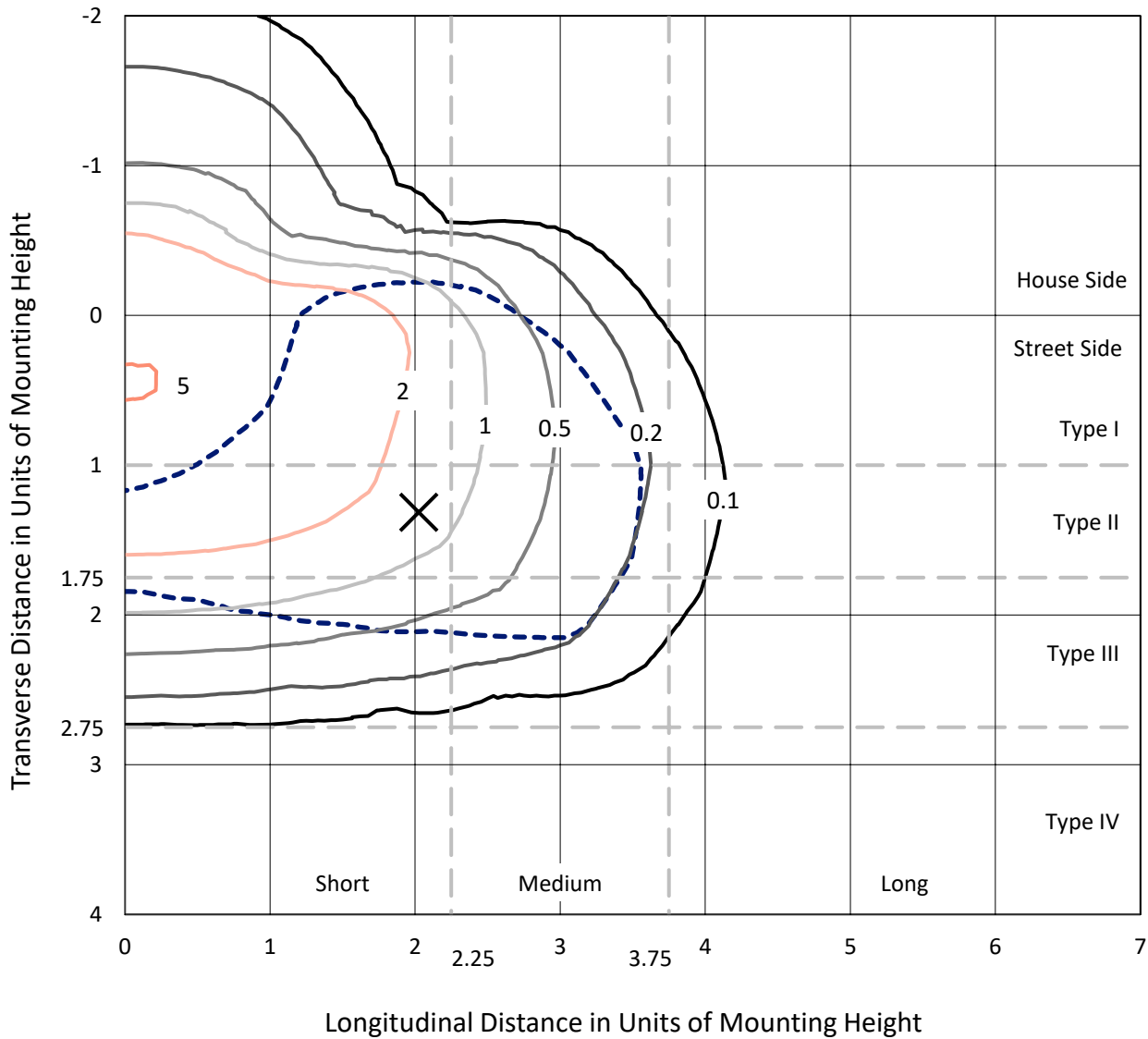
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

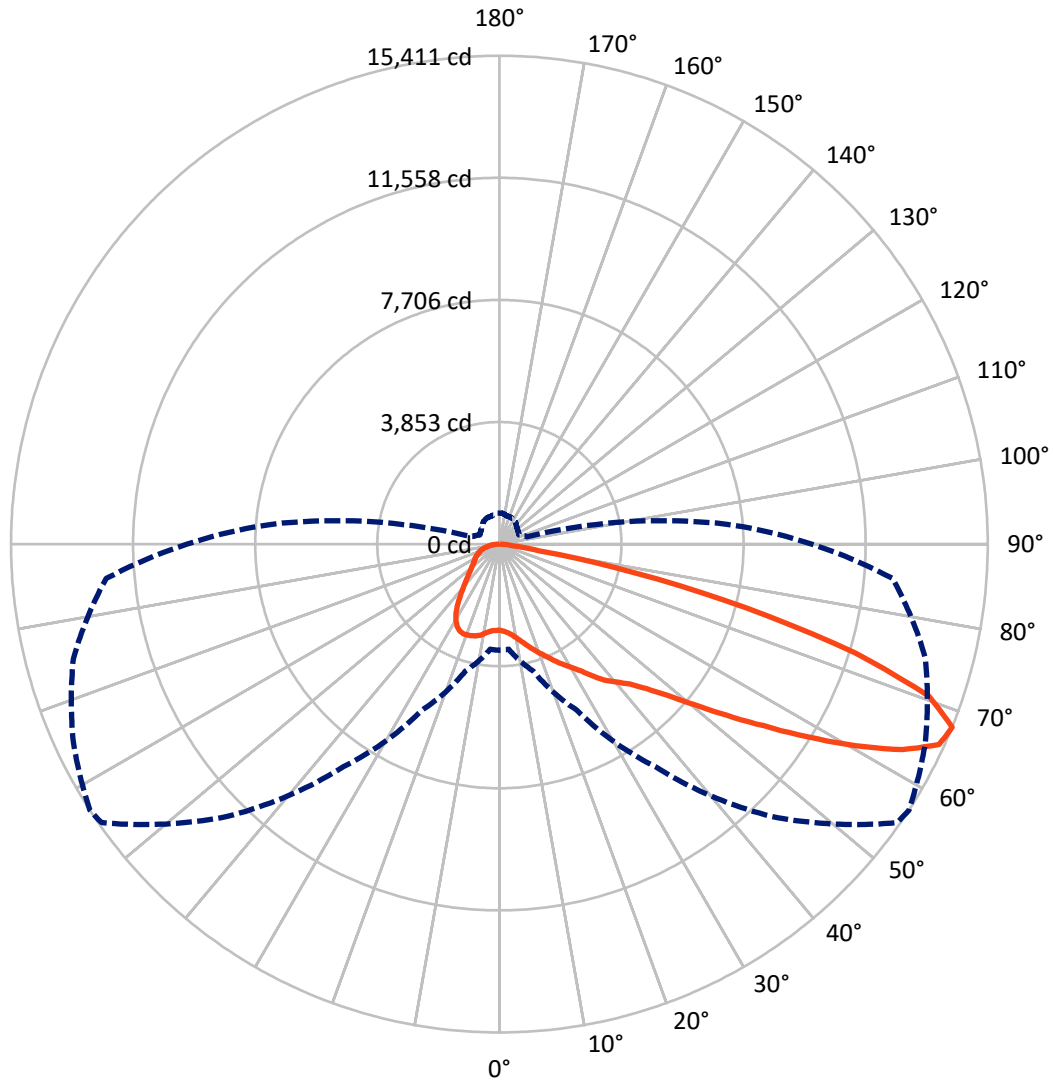
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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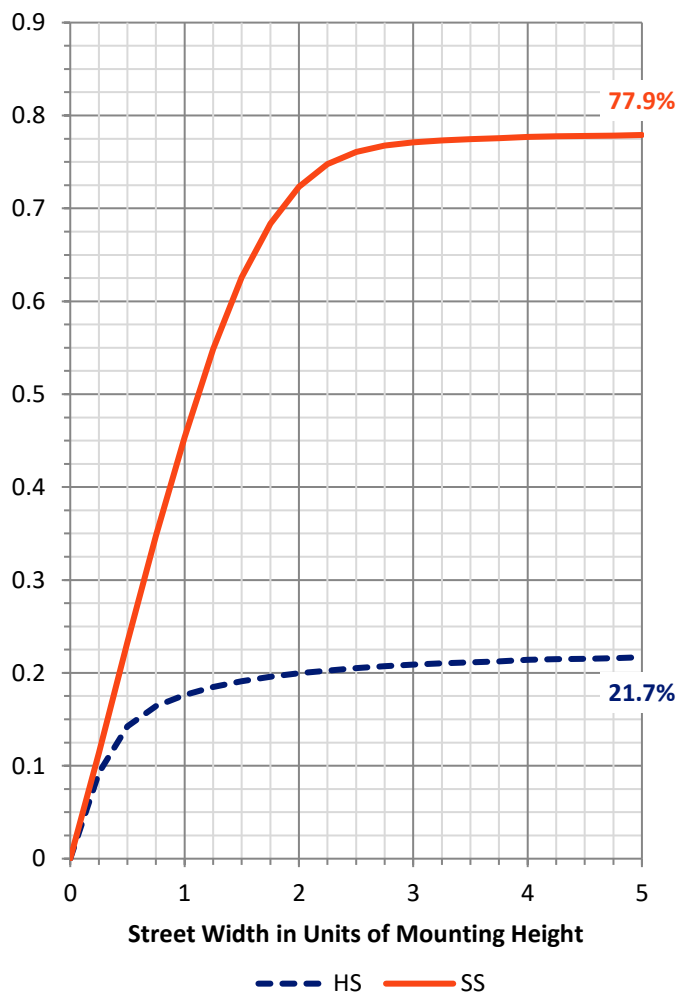
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4959.5	0.0	4959.5
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	17597.6	0.0	17597.6
	% Fixture	78.0	0.0	78.0
Total	Lumens	22557.1	0.0	22557.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	269.6	1.2
10°-20°	892.4	4.0
20°-30°	1591.0	7.1
30°-40°	2313.1	10.3
40°-50°	3347.8	14.8
50°-60°	5239.2	23.2
60°-70°	6111.9	27.1
70°-80°	2551.4	11.3
80°-90°	240.8	1.1
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°	22557.1	100.0
0°-180°	22557.1	100.0

Coefficient of Utilization



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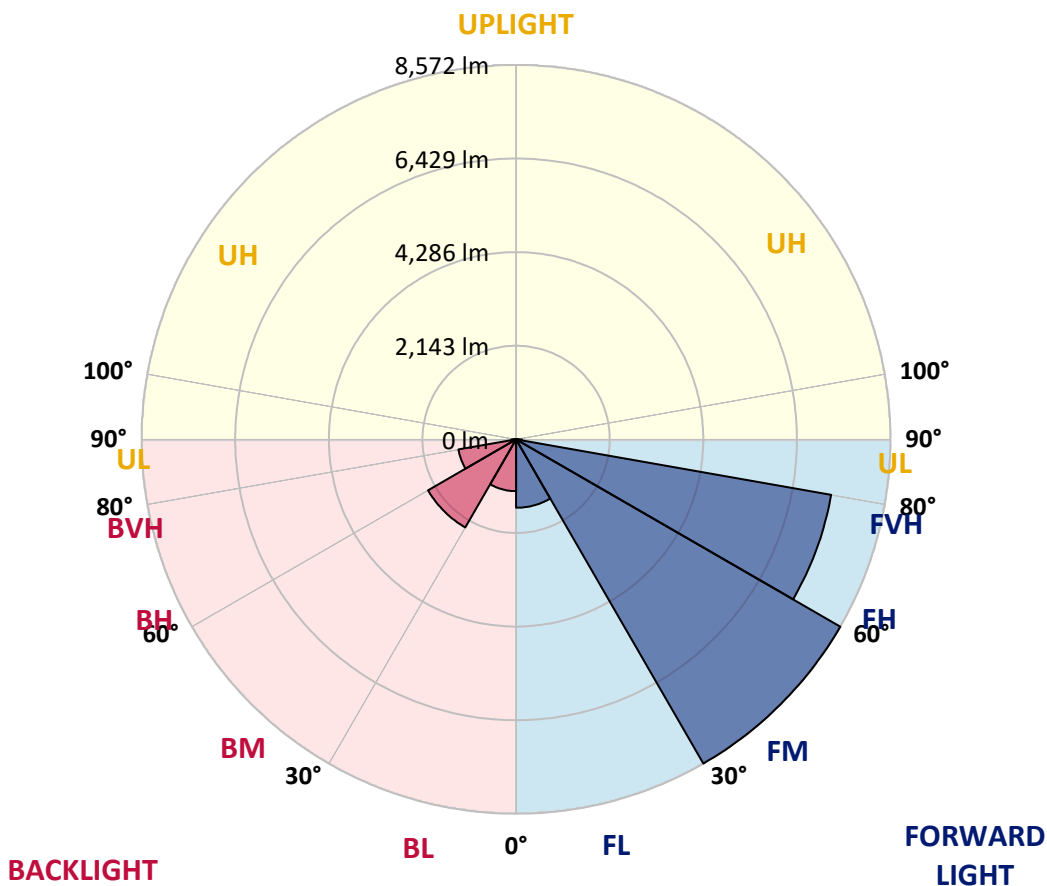
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1566.8	6.9			
FM (30°-60°)	8572.0	38.0			
FH (60°-80°)	7324.7	32.5			G3/7500
FVH (80°-90°)	134.1	0.6			G2/225
BL (0°-30°)	1186.1	5.3	B3/2500		
BM (30°-60°)	2328.1	10.3	B2/2500		
BH (60°-80°)	1338.6	5.9	B3/2500		G3/2500
BVH (80°-90°)	106.6	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-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	2718.0	2718.0	2718.0	2718.0	2718.0	2718.0	2718.0	2718.0	2718.0	2718.0	2718.0
2.5°	2756.8	2753.5	2751.9	2761.6	2758.4	2756.8	2756.8	2755.1	2751.9	2739.0	2721.2
5°	2832.7	2826.2	2819.8	2827.9	2821.4	2814.9	2813.3	2810.1	2798.8	2779.4	2751.9
7.5°	2911.9	2905.4	2907.0	2911.9	2907.0	2903.8	2899.0	2895.7	2878.0	2847.3	2810.1
10°	3023.4	3023.4	3026.6	3031.5	3033.1	3028.2	3018.5	3013.7	2992.7	2953.9	2902.2
12.5°	3185.0	3181.7	3181.7	3178.5	3183.4	3178.5	3168.8	3160.7	3134.9	3084.8	3010.5
15°	3398.3	3385.4	3374.0	3353.0	3346.6	3328.8	3332.0	3327.2	3302.9	3235.1	3141.3
17.5°	3626.1	3624.5	3606.7	3564.7	3522.7	3493.6	3500.1	3498.5	3485.5	3393.4	3273.9
20°	3826.5	3834.6	3818.4	3786.1	3729.5	3674.6	3671.4	3679.4	3663.3	3571.2	3404.7
22.5°	4051.1	4044.6	4028.5	3986.5	3944.5	3886.3	3866.9	3860.4	3854.0	3748.9	3538.9
25°	4264.4	4283.8	4262.8	4224.0	4159.4	4096.4	4080.2	4086.7	4068.9	3929.9	3682.7
27.5°	4534.3	4542.4	4529.4	4476.1	4421.2	4332.3	4301.6	4301.6	4295.1	4099.6	3795.8
30°	4821.9	4844.5	4821.9	4778.3	4721.7	4594.1	4527.8	4521.3	4502.0	4274.1	3928.3
32.5°	5111.2	5127.3	5111.2	5069.1	5004.5	4893.0	4797.7	4783.1	4757.3	4464.8	4064.0
35°	5368.1	5382.6	5379.4	5389.1	5335.8	5195.2	5137.0	5130.5	5062.7	4713.6	4248.3
37.5°	5649.3	5667.0	5642.8	5662.2	5641.2	5508.7	5490.9	5458.6	5361.6	4947.9	4442.2
40°	5969.2	5985.4	5946.6	5954.7	5930.4	5856.1	5765.6	5722.0	5578.2	5201.6	4747.6
42.5°	6311.8	6348.9	6366.7	6352.2	6295.6	6253.6	6095.2	6040.3	5920.7	5659.0	5250.1
45°	6807.9	6862.8	6888.7	6851.5	6827.3	6767.5	6573.6	6507.3	6444.3	6303.7	5951.4
47.5°	7342.7	7392.8	7475.2	7491.4	7510.8	7465.5	7192.5	7127.8	7139.1	7123.0	6814.3
50°	7769.3	7811.4	7997.2	8195.9	8360.8	8373.7	8024.7	7955.2	8016.6	8068.3	7853.4
52.5°	8079.6	8116.8	8362.4	8772.8	9146.1	9422.4	9045.9	8966.7	9016.8	9133.2	9034.6
55°	8331.7	8383.4	8640.3	9270.5	10025.2	10461.5	10220.7	10120.5	10099.5	10243.3	10299.9
57.5°	8464.2	8480.3	8840.7	9660.0	10669.9	11481.1	11586.1	11473.0	11272.7	11351.8	11645.9
60°	8162.0	8189.5	8682.3	9760.2	11178.9	12492.7	13019.5	12925.7	12499.1	12542.8	12867.6
62.5°	7326.6	7365.4	7958.4	9283.5	11220.9	13168.1	14342.9	14283.1	13711.1	13475.2	13572.1
65°	5877.1	5890.0	6504.1	8103.8	10385.5	13252.2	15265.6	15251.1	14557.8	14005.2	13589.9
67.5°	3351.4	3328.8	4149.7	5780.1	8570.8	12159.8	15325.4	15411.0	14832.5	13917.9	12458.7
70°	1452.7	1455.9	1834.1	2852.1	5547.5	9828.0	14234.6	14381.7	14037.5	12465.2	9912.1
72.5°	672.2	681.9	845.1	1234.6	2368.9	6096.9	11607.2	11739.7	11443.9	9976.7	7211.8
75°	475.1	483.2	564.0	707.8	1089.1	2375.4	7764.5	8042.4	8186.2	7462.3	4752.4
77.5°	360.4	371.7	412.1	491.2	672.2	841.9	3715.0	4377.5	5214.6	4642.5	2448.1
80°	229.5	229.5	273.1	328.0	410.4	437.9	1073.0	1271.7	2551.5	1913.2	961.5
82.5°	155.1	160.0	185.8	208.5	235.9	248.9	460.5	491.2	736.9	651.2	395.9
85°	82.4	85.6	97.0	95.3	113.1	98.6	193.9	192.3	269.9	295.7	150.3
87.5°	0.0	0.0	1.6	1.6	3.2	4.8	21.0	22.6	56.6	90.5	50.1
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°	2718.0	2718.0	2718.0	2718.0	2718.0	2718.0	2718.0	2718.0	2718.0	2718.0	2718.0
2.5°	2730.9	2711.5	2721.2	2718.0	2727.7	2727.7	2709.9	2705.0	2706.7	2687.3	2680.8
5°	2755.1	2732.5	2737.4	2730.9	2740.6	2748.7	2740.6	2740.6	2750.3	2735.8	2727.7
7.5°	2810.1	2784.2	2784.2	2776.2	2787.5	2793.9	2787.5	2797.2	2814.9	2800.4	2792.3
10°	2897.3	2866.6	2868.3	2858.6	2863.4	2860.2	2834.3	2826.2	2831.1	2818.2	2811.7
12.5°	3010.5	2968.4	2968.4	2949.1	2937.7	2903.8	2850.5	2831.1	2834.3	2823.0	2818.2
15°	3118.7	3079.9	3071.9	3033.1	2981.4	2918.4	2869.9	2856.9	2860.2	2848.9	2840.8
17.5°	3246.4	3196.3	3167.2	3096.1	3000.8	2936.1	2887.6	2856.9	2831.1	2805.2	2798.8
20°	3364.3	3301.3	3248.0	3138.1	3021.8	2932.9	2842.4	2766.5	2703.4	2669.5	2661.4
22.5°	3485.5	3404.7	3311.0	3167.2	3020.2	2874.7	2708.3	2593.6	2499.8	2449.7	2459.4
25°	3600.3	3498.5	3370.8	3194.7	2968.4	2745.4	2519.2	2347.9	2241.3	2202.5	2191.2
27.5°	3695.6	3569.6	3425.7	3181.7	2861.8	2559.6	2260.7	2070.0	1966.6	1922.9	1911.6
30°	3802.3	3660.1	3504.9	3122.0	2693.7	2299.5	1968.2	1813.1	1738.7	1696.7	1698.3
32.5°	3925.1	3776.4	3616.4	3007.2	2478.8	2018.3	1727.4	1620.8	1561.0	1519.0	1512.5
35°	4089.9	3942.8	3690.8	2834.3	2205.7	1759.7	1562.6	1475.3	1401.0	1346.1	1334.7
37.5°	4293.5	4193.3	3698.8	2603.2	1913.2	1582.0	1444.6	1350.9	1260.4	1187.7	1179.6
40°	4642.5	4527.8	3632.6	2314.0	1664.4	1467.3	1346.1	1237.8	1132.8	1052.0	1040.7
42.5°	5140.2	4904.3	3490.4	1987.6	1477.0	1376.8	1252.3	1115.0	1008.3	951.8	943.7
45°	5773.7	5324.5	3277.1	1680.6	1338.0	1287.9	1153.8	1009.9	953.4	913.0	904.9
47.5°	6549.3	5814.1	3031.5	1441.4	1229.7	1207.1	1053.6	974.4	924.3	890.4	882.3
50°	7476.9	6437.8	2829.5	1254.0	1132.8	1113.4	1021.3	953.4	913.0	885.5	879.1
52.5°	8535.3	7131.1	2730.9	1119.8	1048.7	1029.3	1009.9	948.5	914.6	893.6	885.5
55°	9634.1	7861.4	2638.8	1016.4	977.6	988.9	1011.6	964.7	938.8	911.4	903.3
57.5°	10695.8	8546.6	2412.6	935.6	925.9	969.6	1019.6	980.9	950.2	922.7	913.0
60°	11427.8	8921.5	2029.6	871.0	887.1	945.3	998.6	956.6	917.8	906.5	901.7
62.5°	11624.9	8876.2	1575.5	804.7	840.3	892.0	943.7	916.2	875.8	893.6	895.2
65°	11164.4	8391.5	1182.9	740.1	778.9	822.5	887.1	875.8	861.3	909.8	911.4
67.5°	9860.3	7200.5	901.7	683.5	715.9	769.2	869.4	916.2	919.5	980.9	974.4
70°	7460.7	5379.4	706.2	630.2	667.4	769.2	925.9	946.9	908.1	964.7	951.8
72.5°	5158.0	3550.2	601.1	583.3	607.6	733.6	924.3	924.3	882.3	882.3	858.1
75°	3204.4	2087.8	523.6	523.6	523.6	641.5	898.5	851.6	777.3	743.3	723.9
77.5°	1582.0	1014.8	439.5	455.7	437.9	536.5	733.6	696.5	651.2	615.7	602.7
80°	675.5	507.4	355.5	373.3	352.3	404.0	581.7	573.7	530.0	483.2	468.6
82.5°	310.3	261.8	284.4	292.5	256.9	303.8	425.0	425.0	400.7	336.1	311.9
85°	132.5	139.0	197.1	197.1	161.6	171.3	227.8	216.5	193.9	158.4	145.4
87.5°	45.2	67.9	100.2	87.3	33.9	14.5	8.1	3.2	0.0	0.0	0.0
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)