

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: P633932

Luminaire Tested: GWS-SA2F-760-U-T3-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633932
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-25)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2F-760-U-T3-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (32) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13969.3 lumens
Efficiency: N/A
Efficacy: 112.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

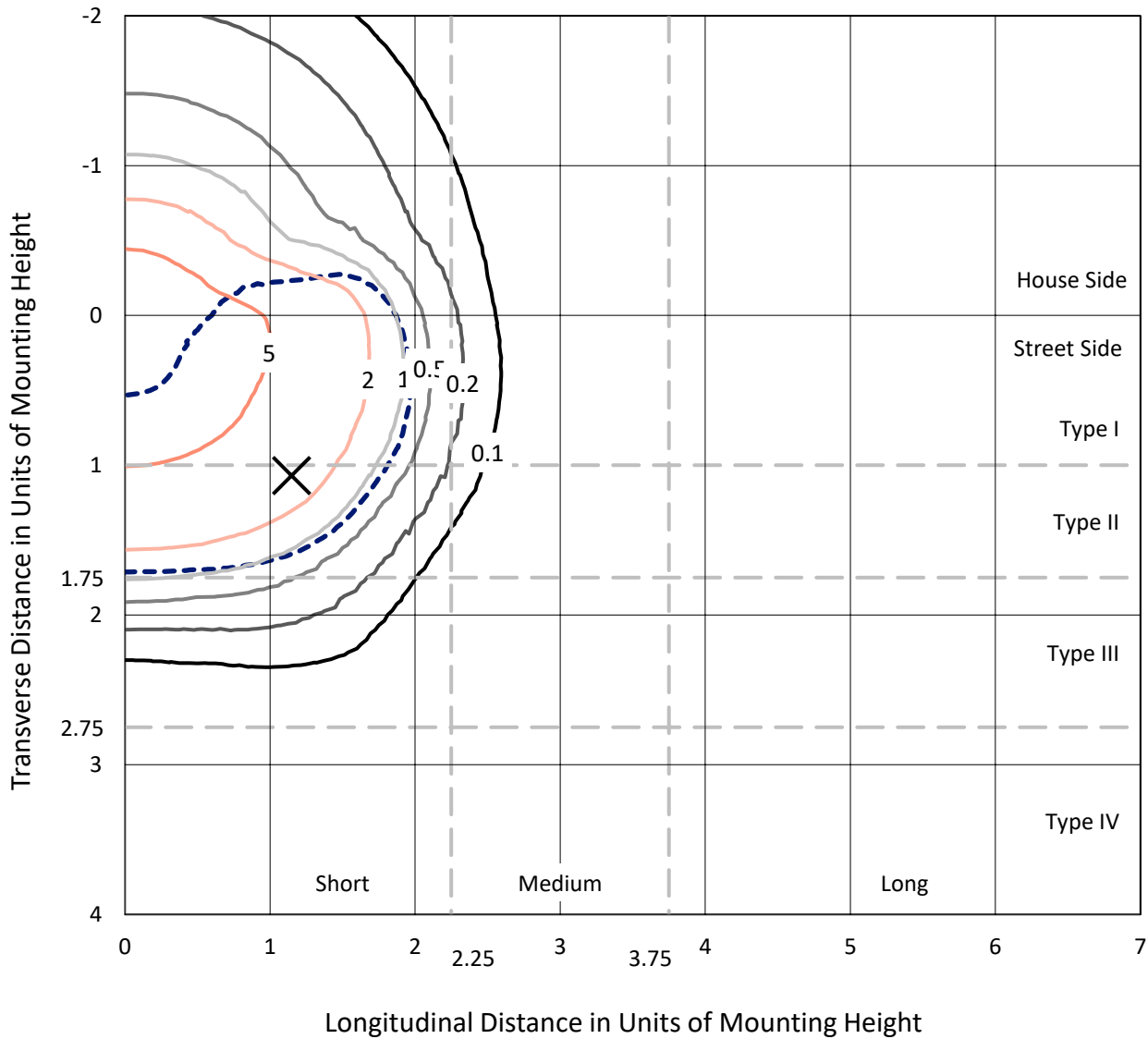
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

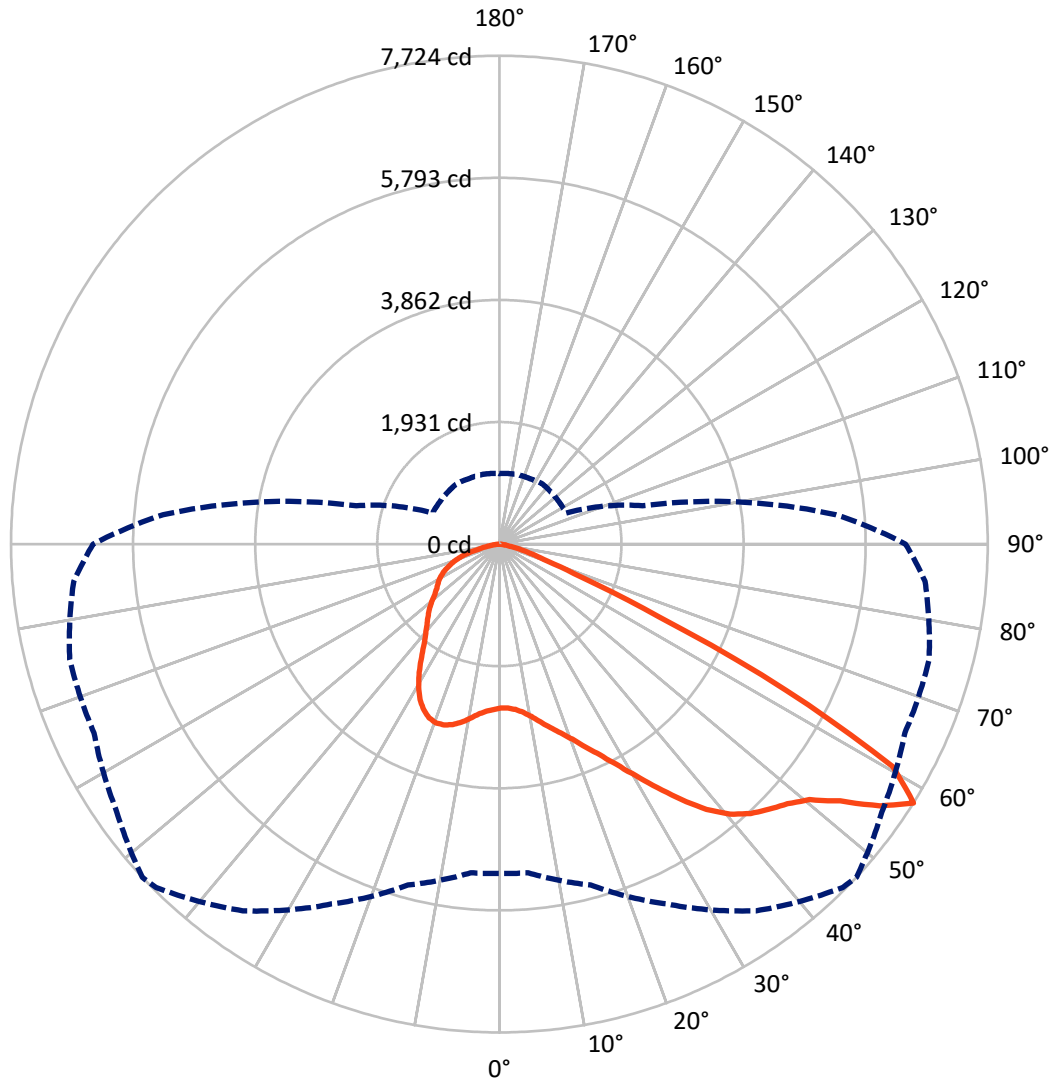
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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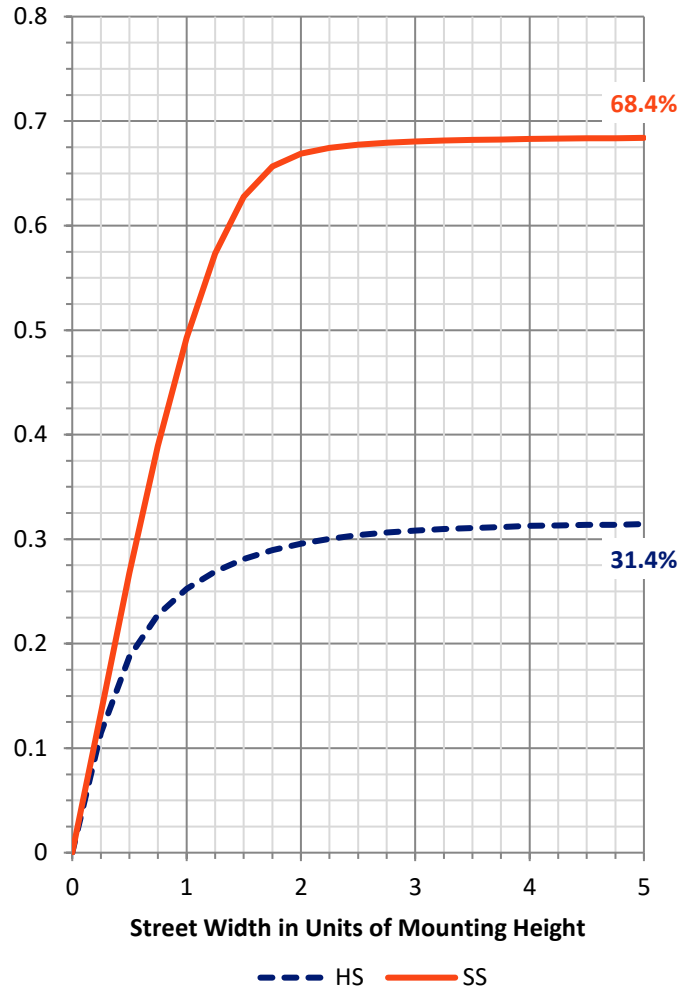
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4421.3	0.0	4421.3
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	9548.1	0.0	9548.1
	% Fixture	68.4	0.0	68.4
Total	Lumens	13969.3	0.0	13969.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.5	1.8
10°-20°	840.4	6.0
20°-30°	1513.3	10.8
30°-40°	2285.6	16.4
40°-50°	3077.8	22.0
50°-60°	3698.4	26.5
60°-70°	1801.2	12.9
70°-80°	443.7	3.2
80°-90°	53.3	0.4
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°	13969.3	100.0
0°-180°	13969.3	100.0

Coefficient of Utilization



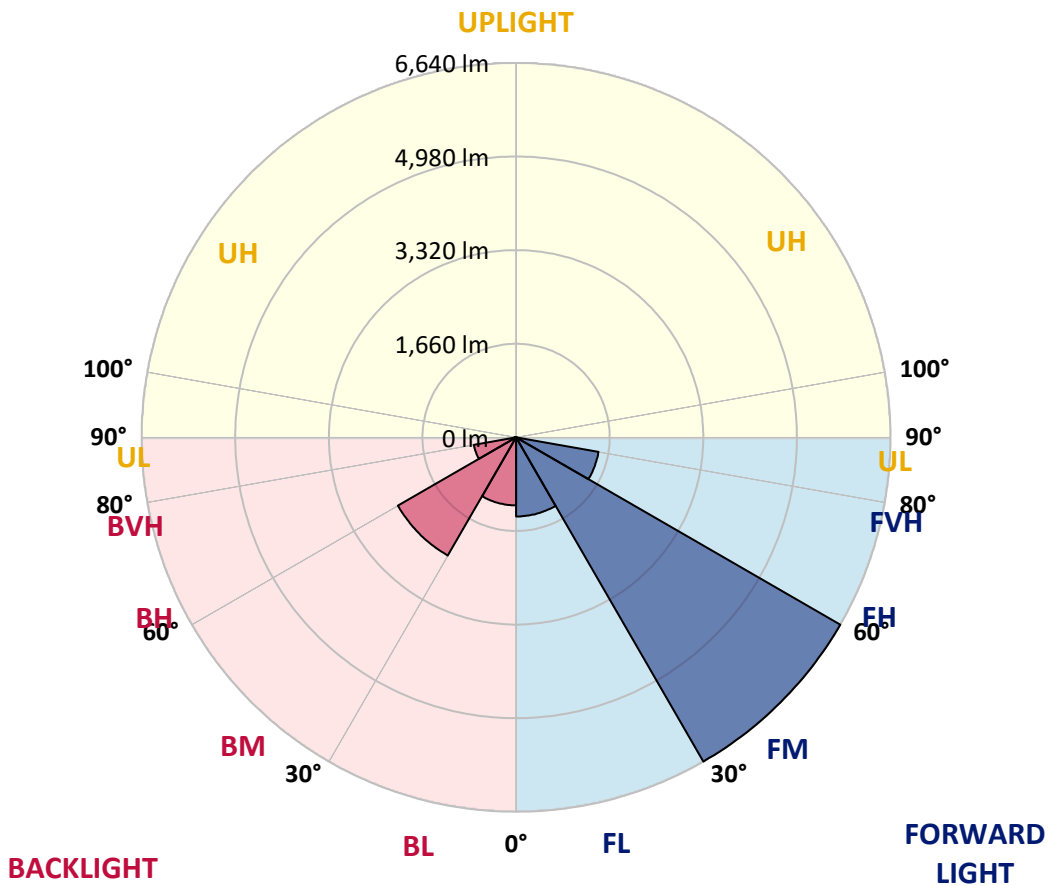
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1403.1	10.0			
FM (30°-60°)	6640.3	47.5			
FH (60°-80°)	1484.5	10.6			G1/1800
FVH (80°-90°)	20.0	0.1			G1/100
BL (0°-30°)	1206.0	8.6	B3/2500		
BM (30°-60°)	2421.5	17.3	B2/2500		
BH (60°-80°)	760.4	5.4	B2/1000		G2/1000
BVH (80°-90°)	33.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	2590.6	2590.6	2590.6	2590.6	2590.6	2590.6	2590.6	2590.6	2590.6	2590.6	2590.6
2.5°	2585.9	2584.8	2584.8	2591.8	2591.8	2594.1	2597.7	2601.2	2602.4	2596.5	2583.6
5°	2614.1	2614.1	2614.1	2620.0	2620.0	2622.3	2627.0	2628.2	2627.0	2617.6	2604.7
7.5°	2658.7	2658.7	2659.9	2666.9	2672.8	2676.3	2684.5	2683.3	2679.8	2664.5	2648.1
10°	2731.4	2734.9	2738.5	2746.7	2758.4	2766.6	2772.5	2772.5	2767.8	2744.3	2723.2
12.5°	2834.7	2839.4	2842.9	2849.9	2859.3	2873.4	2886.3	2886.3	2880.4	2851.1	2819.4
15°	2955.5	2960.2	2959.0	2961.4	2979.0	2998.9	3009.5	3016.5	3018.9	2977.8	2928.5
17.5°	3094.0	3098.7	3094.0	3086.9	3089.3	3121.0	3139.7	3165.5	3180.8	3125.6	3047.0
20°	3219.5	3214.8	3214.8	3219.5	3226.6	3265.3	3293.4	3335.7	3354.4	3287.6	3165.5
22.5°	3352.1	3362.7	3358.0	3358.0	3386.1	3450.6	3484.7	3539.8	3559.8	3472.9	3308.7
25°	3523.4	3532.8	3530.4	3532.8	3565.6	3657.1	3691.2	3793.3	3813.2	3688.8	3467.1
27.5°	3711.1	3726.4	3733.4	3731.1	3783.9	3903.5	3945.8	4087.7	4124.1	3930.5	3636.0
30°	3955.2	3971.6	3977.5	3975.1	4037.3	4200.4	4248.5	4410.4	4462.0	4216.8	3850.7
32.5°	4237.9	4254.4	4272.0	4279.0	4358.8	4525.4	4594.6	4762.4	4836.3	4547.7	4110.0
35°	4518.3	4532.4	4566.4	4621.6	4730.7	4900.8	4961.8	5127.3	5198.9	4891.5	4423.3
37.5°	4828.1	4837.5	4866.8	4943.1	5100.3	5262.2	5323.2	5481.6	5489.8	5223.5	4777.6
40°	5167.2	5167.2	5161.3	5236.4	5400.7	5563.7	5616.5	5708.1	5660.0	5479.3	5122.6
42.5°	5454.6	5449.9	5454.6	5525.0	5647.1	5779.6	5825.4	5807.8	5746.8	5675.2	5434.7
45°	5713.9	5717.4	5759.7	5813.7	5877.0	5955.6	5982.6	5882.9	5827.7	5832.4	5684.6
47.5°	5889.9	5893.4	5992.0	6082.3	6121.1	6145.7	6134.0	5995.5	5967.4	6020.2	5877.0
50°	5913.4	5932.2	6102.3	6287.7	6383.9	6387.4	6354.5	6185.6	6177.4	6237.2	5980.3
52.5°	5918.1	5936.9	6149.2	6483.6	6733.5	6786.3	6748.8	6572.8	6487.1	6427.3	6107.0
55°	5900.5	5921.6	6156.3	6615.0	7093.7	7304.9	7308.4	7059.7	6786.3	6746.4	6468.4
57.5°	5209.4	5217.6	5581.3	6280.6	7079.6	7678.0	7723.8	7385.9	7073.8	7036.2	6758.2
60°	3629.0	3661.8	4057.2	4980.6	5947.4	7002.2	7150.0	7051.5	6842.6	6569.3	5798.4
62.5°	1817.4	1845.6	2242.2	3115.1	4101.8	4934.9	5093.3	5197.7	5247.0	4953.6	3948.1
65°	782.6	803.7	1050.1	1627.4	2321.9	2724.4	2779.5	2905.1	3212.5	2866.4	2127.2
67.5°	523.3	537.4	662.9	992.6	1368.1	1393.9	1385.7	1412.6	1479.5	1221.4	960.9
70°	401.3	413.0	497.5	727.4	983.2	841.2	796.7	722.7	784.9	800.2	779.1
72.5°	291.0	300.4	363.7	496.3	616.0	537.4	530.3	567.9	652.3	675.8	662.9
75°	187.7	192.4	231.1	272.2	318.0	344.9	359.0	427.1	512.7	530.3	515.1
77.5°	125.5	129.1	151.4	174.8	180.7	181.9	186.6	217.1	275.7	308.6	305.1
80°	65.7	65.7	73.9	73.9	84.5	100.9	105.6	125.5	152.5	169.0	170.1
82.5°	25.8	27.0	31.7	35.2	42.2	51.6	55.1	65.7	79.8	91.5	102.1
85°	10.6	11.7	12.9	15.3	18.8	23.5	24.6	28.2	37.5	46.9	52.8
87.5°	0.0	0.0	1.2	1.2	2.3	3.5	3.5	4.7	5.9	10.6	14.1
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°	2590.6	2590.6	2590.6	2590.6	2590.6	2590.6	2590.6	2590.6	2590.6	2590.6	2590.6
2.5°	2598.8	2583.6	2598.8	2603.5	2616.4	2621.1	2612.9	2611.7	2611.7	2600.0	2596.5
5°	2616.4	2602.4	2617.6	2624.7	2643.4	2655.2	2657.5	2666.9	2672.8	2668.1	2666.9
7.5°	2659.9	2642.3	2658.7	2669.2	2693.9	2712.6	2720.9	2742.0	2757.2	2754.9	2753.7
10°	2736.1	2712.6	2731.4	2749.0	2776.0	2798.3	2799.5	2811.2	2826.5	2821.8	2819.4
12.5°	2824.1	2801.8	2822.9	2840.5	2872.2	2881.6	2866.4	2861.7	2864.0	2858.1	2853.4
15°	2932.1	2900.4	2919.1	2939.1	2956.7	2946.1	2913.3	2900.4	2899.2	2891.0	2886.3
17.5°	3040.0	3000.1	3014.2	3024.7	3016.5	2983.7	2942.6	2920.3	2909.8	2893.3	2888.6
20°	3146.8	3096.3	3094.0	3085.8	3048.2	2988.4	2933.2	2888.6	2861.7	2839.4	2831.2
22.5°	3268.8	3198.4	3163.2	3125.6	3043.5	2946.1	2862.8	2799.5	2756.1	2727.9	2718.5
25°	3400.2	3300.5	3227.7	3152.6	2996.6	2855.8	2739.6	2652.8	2601.2	2570.7	2560.1
27.5°	3530.4	3393.2	3284.0	3156.2	2902.7	2725.6	2569.5	2452.2	2400.6	2375.9	2367.7
30°	3706.4	3516.4	3350.9	3110.4	2779.5	2544.9	2350.1	2231.6	2197.6	2180.0	2172.9
32.5°	3909.4	3672.4	3440.1	3014.2	2622.3	2333.7	2128.4	2046.2	2022.8	1988.7	1987.6
35°	4176.9	3895.3	3524.6	2872.2	2424.0	2107.2	1958.2	1899.6	1857.3	1803.3	1798.7
37.5°	4489.0	4173.4	3570.3	2691.5	2192.9	1920.7	1831.5	1765.8	1697.8	1626.2	1616.8
40°	4811.7	4498.4	3573.8	2478.0	1966.4	1797.5	1722.4	1636.7	1552.3	1472.5	1461.9
42.5°	5150.7	4801.1	3511.7	2231.6	1781.1	1690.7	1614.4	1506.5	1411.5	1357.5	1351.6
45°	5453.5	5045.2	3370.9	1972.3	1643.8	1601.5	1504.2	1388.0	1337.6	1298.8	1290.6
47.5°	5691.6	5207.1	3180.8	1740.0	1532.3	1510.0	1383.3	1323.5	1284.8	1249.6	1241.3
50°	5809.0	5243.4	2933.2	1551.1	1429.1	1402.1	1315.3	1269.5	1243.7	1215.5	1208.5
52.5°	5954.5	5284.5	2719.7	1392.7	1328.2	1291.8	1258.9	1222.6	1203.8	1186.2	1180.3
55°	6288.8	5439.4	2607.1	1266.0	1232.0	1215.5	1210.8	1180.3	1174.5	1162.7	1152.2
57.5°	6424.9	5339.6	2340.7	1162.7	1155.7	1158.0	1169.8	1141.6	1135.7	1121.7	1114.6
60°	5167.2	4036.1	1585.1	1073.6	1092.3	1107.6	1119.3	1091.2	1082.9	1080.6	1071.2
62.5°	3311.0	2482.7	1106.4	990.3	1018.4	1037.2	1044.2	1017.2	1011.4	1030.1	1031.3
65°	1723.6	1352.8	897.6	901.1	924.6	952.7	966.8	957.4	955.1	975.0	976.2
67.5°	880.0	827.2	782.6	795.5	814.3	850.6	883.5	924.6	938.6	941.0	942.2
70°	749.7	726.3	704.0	712.2	732.1	752.1	783.8	803.7	780.2	774.4	772.0
72.5°	638.3	620.7	610.1	619.5	630.1	626.5	617.2	626.5	630.1	631.2	632.4
75°	496.3	483.4	475.2	476.4	476.4	463.5	445.9	435.3	423.6	414.2	414.2
77.5°	303.9	306.2	314.4	313.3	312.1	307.4	289.8	280.4	252.3	244.0	244.0
80°	173.6	177.2	185.4	187.7	187.7	181.9	164.3	153.7	140.8	134.9	133.8
82.5°	105.6	110.3	115.0	117.3	118.5	111.5	96.2	88.0	81.0	75.1	75.1
85°	55.1	57.5	62.2	63.4	59.8	52.8	44.6	41.1	34.0	32.9	32.9
87.5°	15.3	16.4	18.8	15.3	14.1	10.6	5.9	4.7	2.3	1.2	1.2
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)