

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: P633877

Luminaire Tested: GWS-SA2F-750-U-T3-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633877
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-750-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) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14163.4 lumens
Efficiency: N/A
Efficacy: 113.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

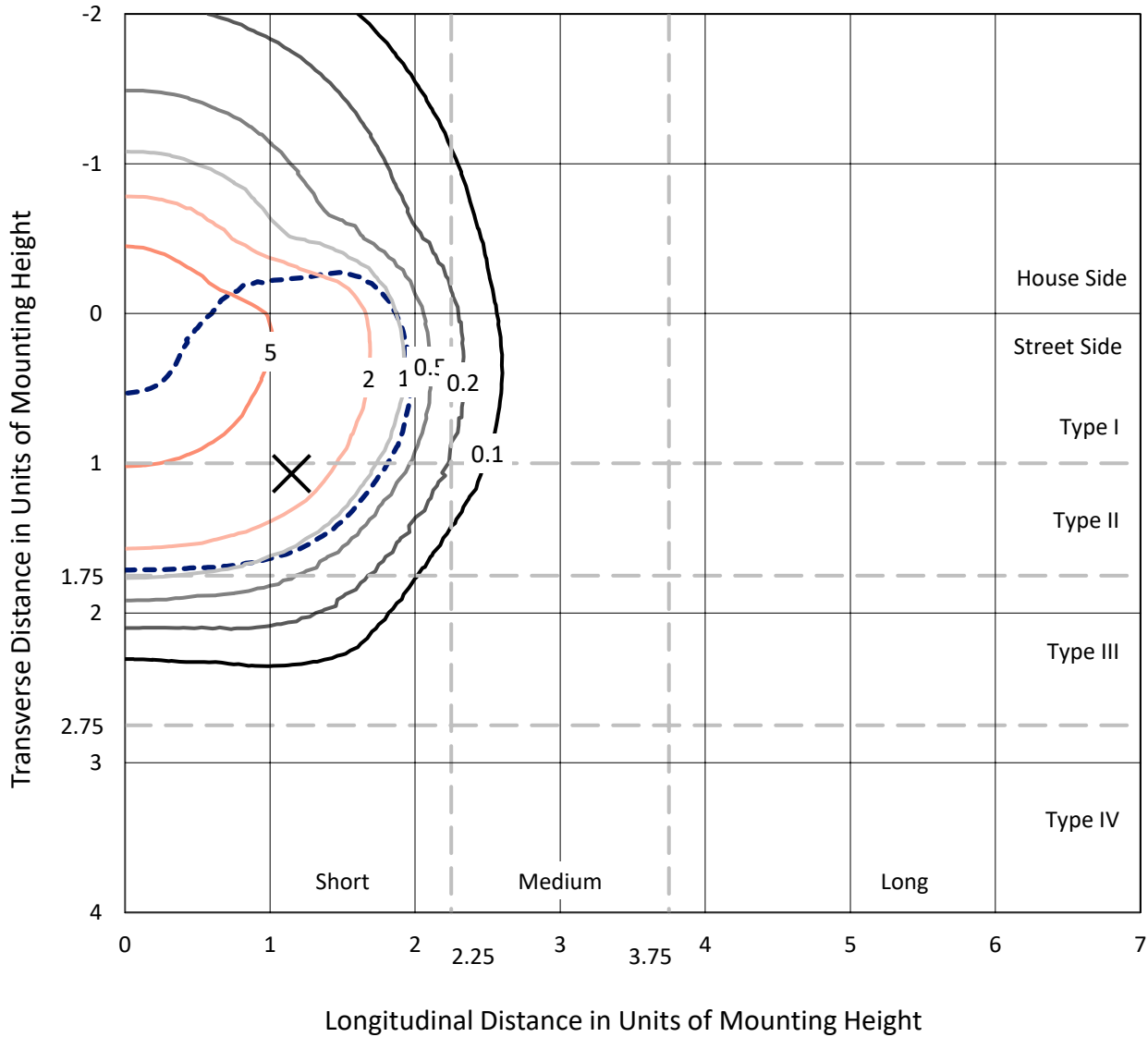
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

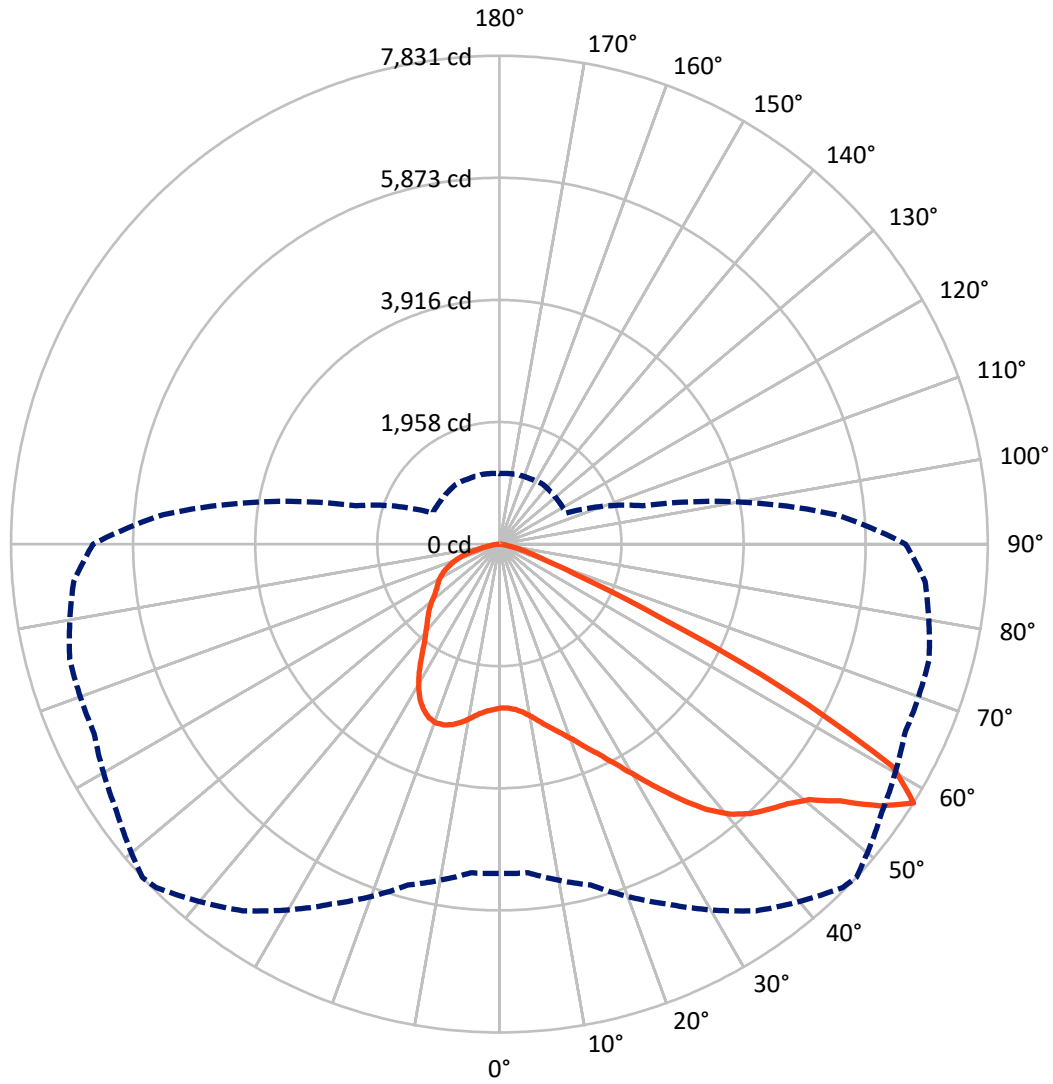
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.3 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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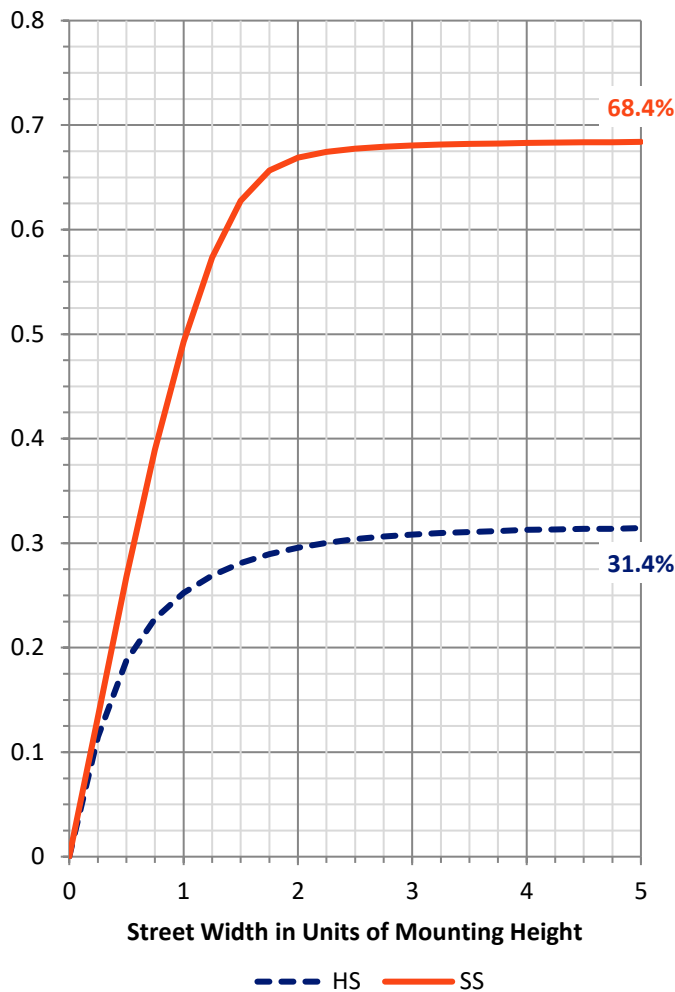
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4482.7	0.0	4482.7
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	9680.7	0.0	9680.7
	% Fixture	68.4	0.0	68.4
Total	Lumens	14163.4	0.0	14163.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.1	1.8
10°-20°	852.1	6.0
20°-30°	1534.3	10.8
30°-40°	2317.4	16.4
40°-50°	3120.6	22.0
50°-60°	3749.8	26.5
60°-70°	1826.2	12.9
70°-80°	449.9	3.2
80°-90°	54.1	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°	14163.4	100.0
0°-180°	14163.4	100.0

Coefficient of Utilization



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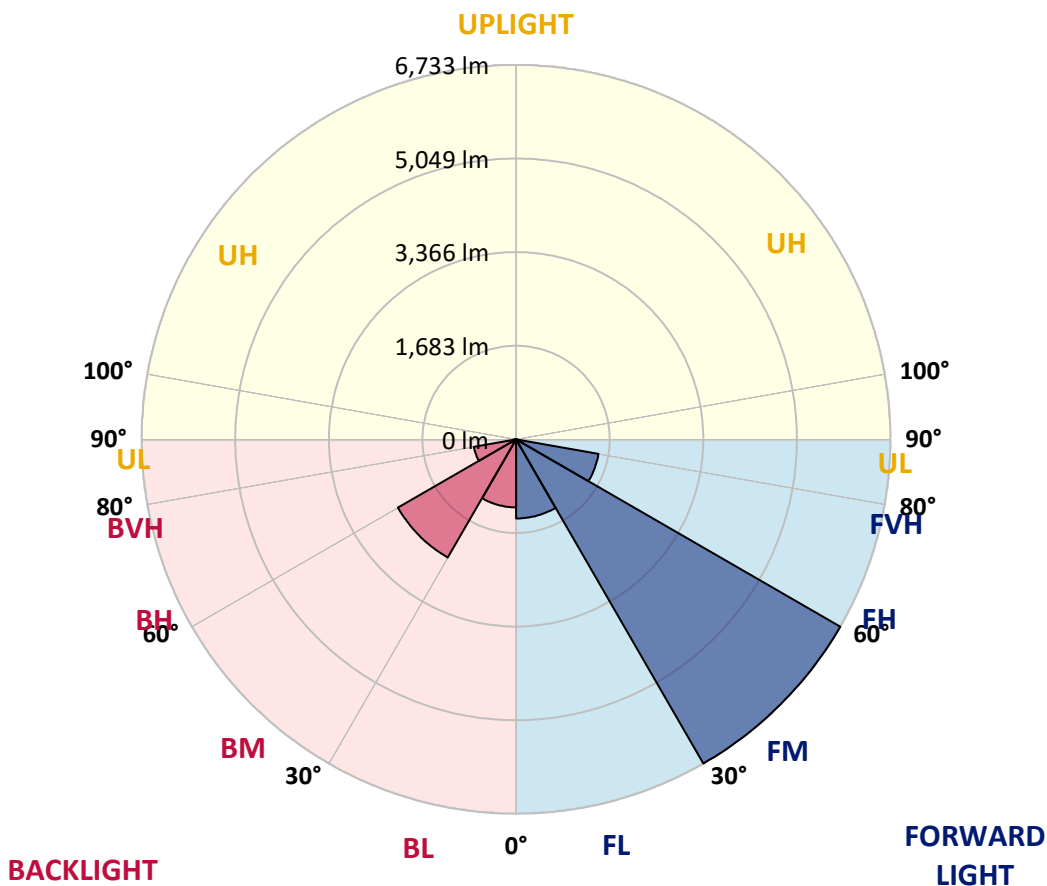
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1422.6	10.0			
FM (30°-60°)	6732.6	47.5			
FH (60°-80°)	1505.1	10.6			G1/1800
FVH (80°-90°)	20.3	0.1			G1/100
BL (0°-30°)	1222.8	8.6	B3/2500		
BM (30°-60°)	2455.1	17.3	B2/2500		
BH (60°-80°)	771.0	5.4	B2/1000		G2/1000
BVH (80°-90°)	33.7	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°	2626.6	2626.6	2626.6	2626.6	2626.6	2626.6	2626.6	2626.6	2626.6	2626.6	2626.6
2.5°	2621.9	2620.7	2620.7	2627.8	2627.8	2630.2	2633.8	2637.3	2638.5	2632.6	2619.5
5°	2650.4	2650.4	2650.4	2656.4	2656.4	2658.7	2663.5	2664.7	2663.5	2654.0	2640.9
7.5°	2695.6	2695.6	2696.8	2703.9	2709.9	2713.5	2721.8	2720.6	2717.0	2701.6	2684.9
10°	2769.4	2772.9	2776.5	2784.8	2796.7	2805.1	2811.0	2811.0	2806.3	2782.5	2761.0
12.5°	2874.1	2878.8	2882.4	2889.5	2899.0	2913.3	2926.4	2926.4	2920.5	2890.7	2858.6
15°	2996.6	3001.3	3000.2	3002.5	3020.4	3040.6	3051.3	3058.4	3060.8	3019.2	2969.2
17.5°	3137.0	3141.7	3137.0	3129.8	3132.2	3164.3	3183.4	3209.5	3225.0	3169.1	3089.4
20°	3264.2	3259.5	3259.5	3264.2	3271.4	3310.6	3339.2	3382.0	3401.0	3333.2	3209.5
22.5°	3398.7	3409.4	3404.6	3404.6	3433.2	3498.6	3533.1	3589.0	3609.2	3521.2	3354.7
25°	3572.4	3581.9	3579.5	3581.9	3615.2	3708.0	3742.5	3846.0	3866.2	3740.1	3515.2
27.5°	3762.7	3778.1	3785.3	3782.9	3836.4	3957.8	4000.6	4144.5	4181.4	3985.1	3686.6
30°	4010.1	4026.8	4032.7	4030.3	4093.4	4258.7	4307.5	4471.7	4524.0	4275.4	3904.2
32.5°	4296.8	4313.5	4331.3	4338.4	4419.3	4588.3	4658.4	4828.6	4903.5	4610.9	4167.1
35°	4581.1	4595.4	4629.9	4685.8	4796.4	4968.9	5030.8	5198.5	5271.1	4959.4	4484.8
37.5°	4895.2	4904.7	4934.4	5011.8	5171.2	5335.3	5397.2	5557.8	5566.1	5296.1	4844.0
40°	5239.0	5239.0	5233.0	5309.2	5475.7	5641.1	5694.6	5787.4	5738.6	5555.4	5193.8
42.5°	5530.4	5525.7	5530.4	5601.8	5725.5	5859.9	5906.3	5888.5	5826.6	5754.1	5510.2
45°	5793.3	5796.9	5839.7	5894.4	5958.7	6038.4	6065.7	5964.6	5908.7	5913.5	5763.6
47.5°	5971.8	5975.3	6075.3	6166.9	6206.1	6231.1	6219.2	6078.8	6050.3	6103.8	5958.7
50°	5995.6	6014.6	6187.1	6375.0	6472.6	6476.1	6442.8	6271.5	6263.2	6323.9	6063.4
52.5°	6000.3	6019.3	6234.7	6573.7	6827.1	6880.6	6842.5	6664.1	6577.3	6516.6	6191.8
55°	5982.5	6003.9	6241.8	6706.9	7192.3	7406.4	7410.0	7157.8	6880.6	6840.2	6558.2
57.5°	5281.8	5290.1	5658.9	6367.9	7178.0	7784.7	7831.1	7488.5	7172.1	7134.0	6852.1
60°	3679.4	3712.7	4113.6	5049.8	6030.1	7099.5	7249.4	7149.5	6937.7	6660.5	5879.0
62.5°	1842.7	1871.2	2273.3	3158.4	4158.8	5003.4	5164.0	5269.9	5319.9	5022.5	4003.0
65°	793.5	814.9	1064.7	1650.0	2354.2	2762.2	2818.1	2945.4	3257.1	2906.2	2156.7
67.5°	530.6	544.8	672.1	1006.4	1387.1	1413.2	1404.9	1432.3	1500.1	1238.4	974.3
70°	406.8	418.7	504.4	737.5	996.9	852.9	807.7	732.8	795.8	811.3	789.9
72.5°	295.0	304.5	368.8	503.2	624.5	544.8	537.7	575.8	661.4	685.2	672.1
75°	190.3	195.1	234.3	276.0	322.4	349.7	364.0	433.0	519.9	537.7	522.2
77.5°	127.3	130.9	153.5	177.2	183.2	184.4	189.1	220.1	279.6	312.9	309.3
80°	66.6	66.6	74.9	74.9	85.7	102.3	107.1	127.3	154.6	171.3	172.5
82.5°	26.2	27.4	32.1	35.7	42.8	52.3	55.9	66.6	80.9	92.8	103.5
85°	10.7	11.9	13.1	15.5	19.0	23.8	25.0	28.6	38.1	47.6	53.5
87.5°	0.0	0.0	1.2	1.2	2.4	3.6	3.6	4.8	5.9	10.7	14.3
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°	2626.6	2626.6	2626.6	2626.6	2626.6	2626.6	2626.6	2626.6	2626.6	2626.6	2626.6
2.5°	2635.0	2619.5	2635.0	2639.7	2652.8	2657.6	2649.2	2648.0	2648.0	2636.1	2632.6
5°	2652.8	2638.5	2654.0	2661.1	2680.2	2692.1	2694.4	2703.9	2709.9	2705.1	2703.9
7.5°	2696.8	2679.0	2695.6	2706.3	2731.3	2750.3	2758.7	2780.1	2795.5	2793.2	2792.0
10°	2774.1	2750.3	2769.4	2787.2	2814.6	2837.2	2838.4	2850.3	2865.7	2861.0	2858.6
12.5°	2863.4	2840.7	2862.2	2880.0	2912.1	2921.6	2906.2	2901.4	2903.8	2897.9	2893.1
15°	2972.8	2940.7	2959.7	2979.9	2997.8	2987.1	2953.8	2940.7	2939.5	2931.2	2926.4
17.5°	3082.2	3041.8	3056.1	3066.8	3058.4	3025.1	2983.5	2960.9	2950.2	2933.5	2928.8
20°	3190.5	3139.3	3137.0	3128.6	3090.6	3029.9	2974.0	2928.8	2901.4	2878.8	2870.5
22.5°	3314.2	3242.8	3207.1	3169.1	3085.8	2987.1	2902.6	2838.4	2794.4	2765.8	2756.3
25°	3447.4	3346.3	3272.6	3196.4	3038.2	2895.5	2777.7	2689.7	2637.3	2606.4	2595.7
27.5°	3579.5	3440.3	3329.7	3200.0	2943.1	2763.4	2605.2	2486.3	2433.9	2408.9	2400.6
30°	3757.9	3565.2	3397.5	3153.6	2818.1	2580.2	2382.8	2262.6	2228.1	2210.3	2203.1
32.5°	3963.7	3723.4	3487.9	3056.1	2658.7	2366.1	2157.9	2074.7	2050.9	2016.4	2015.2
35°	4235.0	3949.5	3573.5	2912.1	2457.7	2136.5	1985.4	1926.0	1883.1	1828.4	1823.6
37.5°	4551.4	4231.4	3619.9	2728.9	2223.4	1947.4	1857.0	1790.3	1721.3	1648.8	1639.3
40°	4878.5	4560.9	3623.5	2512.4	1993.8	1822.5	1746.3	1659.5	1573.8	1492.9	1482.2
42.5°	5222.3	4867.8	3560.5	2262.6	1805.8	1714.2	1636.9	1527.4	1431.1	1376.4	1370.4
45°	5529.2	5115.3	3417.7	1999.7	1666.6	1623.8	1525.1	1407.3	1356.1	1316.9	1308.6
47.5°	5770.7	5279.4	3225.0	1764.2	1553.6	1531.0	1402.5	1341.9	1302.6	1266.9	1258.6
50°	5889.7	5316.3	2974.0	1572.6	1448.9	1421.6	1333.5	1287.1	1261.0	1232.4	1225.3
52.5°	6037.2	5357.9	2757.5	1412.0	1346.6	1309.7	1276.4	1239.6	1220.5	1202.7	1196.7
55°	6376.2	5515.0	2643.3	1283.6	1249.1	1232.4	1227.7	1196.7	1190.8	1178.9	1168.2
57.5°	6514.2	5413.8	2373.2	1178.9	1171.7	1174.1	1186.0	1157.5	1151.5	1137.3	1130.1
60°	5239.0	4092.2	1607.1	1088.5	1107.5	1123.0	1134.9	1106.3	1098.0	1095.6	1086.1
62.5°	3357.0	2517.2	1121.8	1004.0	1032.6	1051.6	1058.7	1031.4	1025.4	1044.5	1045.7
65°	1747.5	1371.6	910.0	913.6	937.4	966.0	980.2	970.7	968.3	988.6	989.7
67.5°	892.2	838.7	793.5	806.5	825.6	862.5	895.8	937.4	951.7	954.1	955.2
70°	760.2	736.4	713.8	722.1	742.3	762.5	794.6	814.9	791.1	785.1	782.8
72.5°	647.1	629.3	618.6	628.1	638.8	635.2	625.7	635.2	638.8	640.0	641.2
75°	503.2	490.1	481.8	483.0	483.0	469.9	452.0	441.3	429.4	419.9	419.9
77.5°	308.1	310.5	318.8	317.6	316.4	311.7	293.8	284.3	255.8	247.4	247.4
80°	176.1	179.6	188.0	190.3	190.3	184.4	166.5	155.8	142.8	136.8	135.6
82.5°	107.1	111.8	116.6	119.0	120.1	113.0	97.5	89.2	82.1	76.1	76.1
85°	55.9	58.3	63.0	64.2	60.7	53.5	45.2	41.6	34.5	33.3	33.3
87.5°	15.5	16.7	19.0	15.5	14.3	10.7	5.9	4.8	2.4	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)