

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: P633822

Luminaire Tested: GWS-SA2F-740-U-T3-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633822
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-740-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) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13846.1 lumens
Efficiency: N/A
Efficacy: 111.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

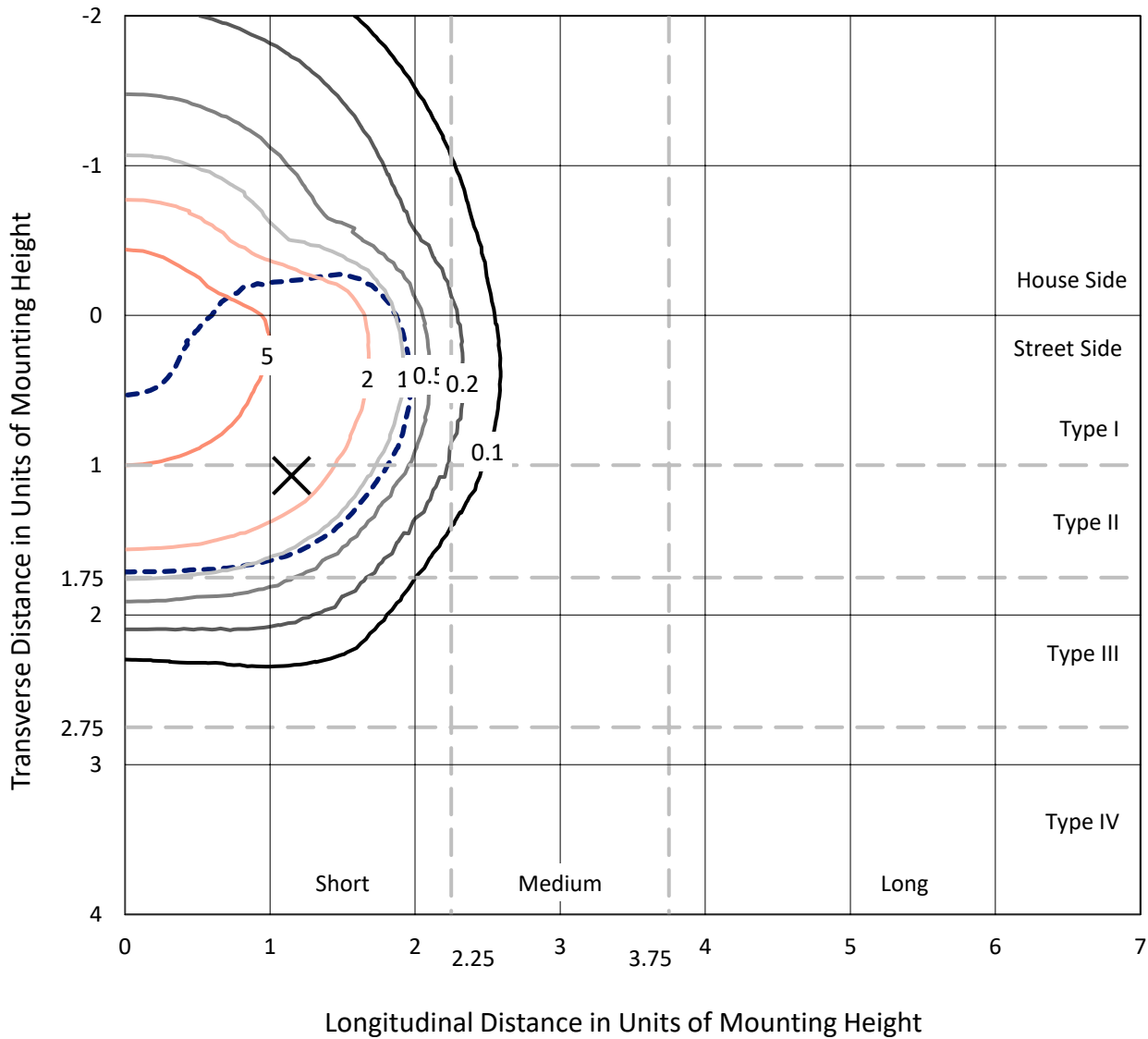
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P633822
 CATALOG NUMBER: GWS-SA2F-740-U-T3-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

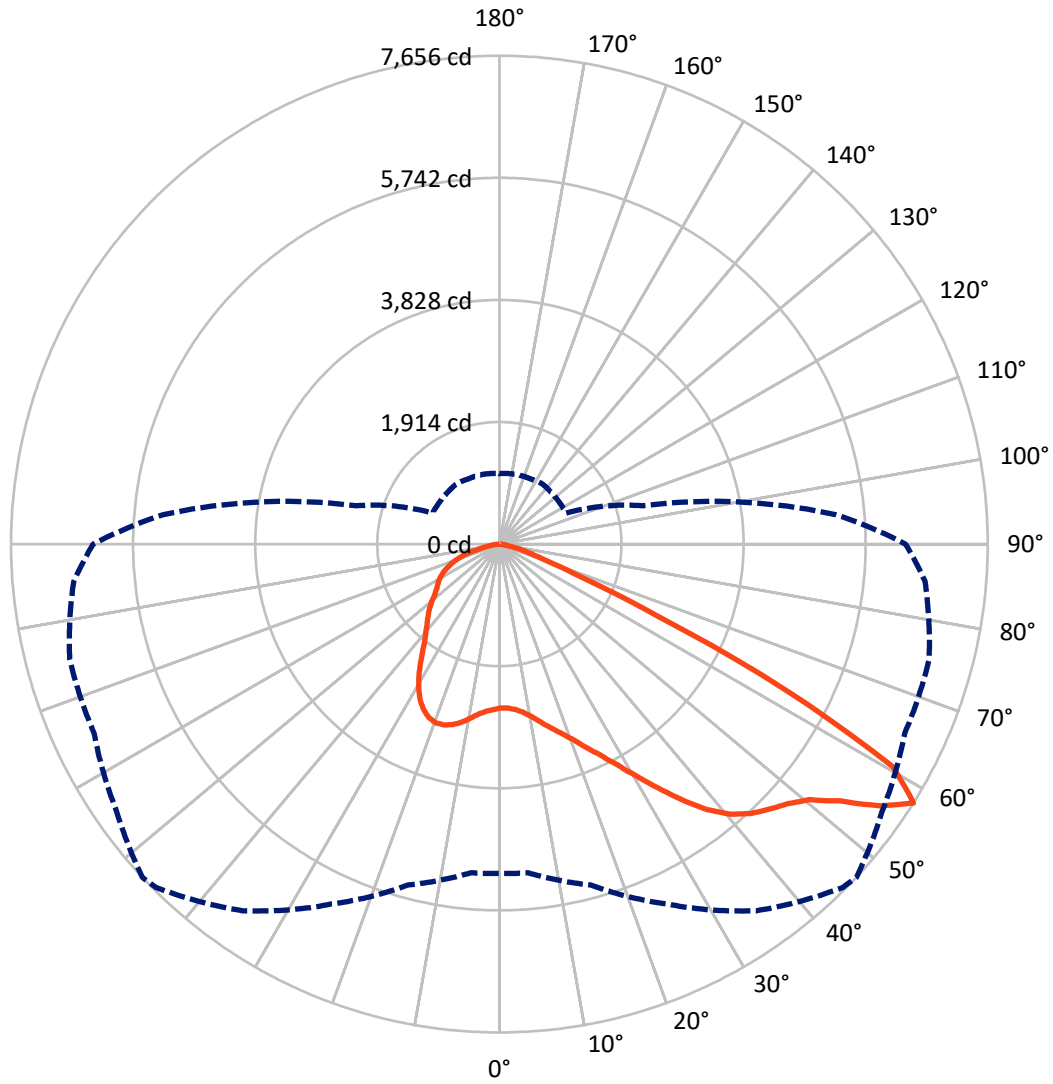
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P633822
CATALOG NUMBER: GWS-SA2F-740-U-T3-W-GRSWH

Luminous Intensity Polar Plot



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

REPORT NUMBER: P633822

CATALOG NUMBER: GWS-SA2F-740-U-T3-W-GRSWH

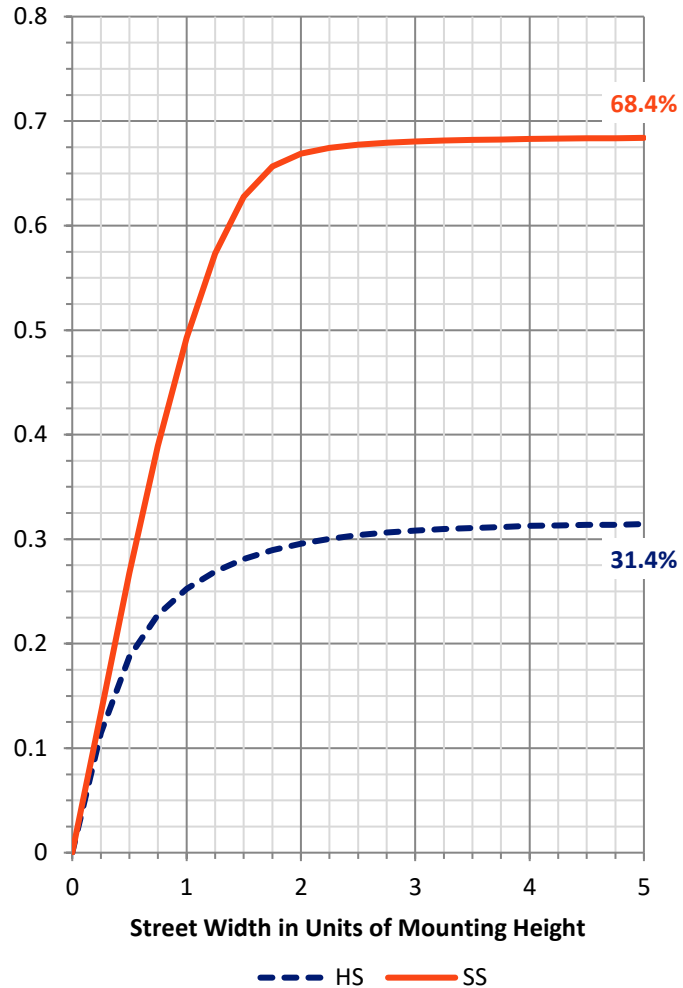
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4382.3	0.0	4382.3
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	9463.9	0.0	9463.9
	% Fixture	68.4	0.0	68.4
Total	Lumens	13846.1	0.0	13846.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.3	1.8
10°-20°	833.0	6.0
20°-30°	1499.9	10.8
30°-40°	2265.4	16.4
40°-50°	3050.7	22.0
50°-60°	3665.8	26.5
60°-70°	1785.3	12.9
70°-80°	439.8	3.2
80°-90°	52.9	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°	13846.1	100.0
0°-180°	13846.1	100.0

Coefficient of Utilization



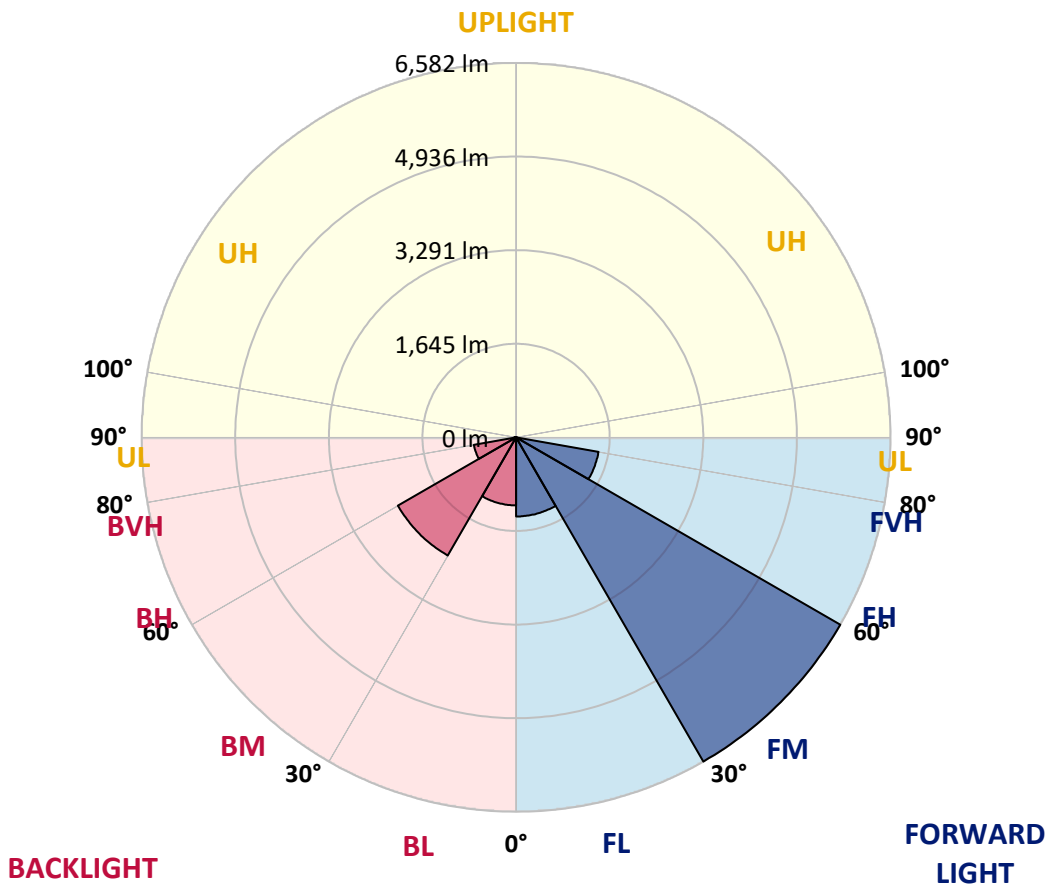
REPORT NUMBER: P633822

CATALOG NUMBER: GWS-SA2F-740-U-T3-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1390.8	10.0			
FM (30°-60°)	6581.8	47.5			
FH (60°-80°)	1471.4	10.6			G1/1800
FVH (80°-90°)	19.9	0.1			G1/100
BL (0°-30°)	1195.4	8.6	B3/2500		
BM (30°-60°)	2400.1	17.3	B2/2500		
BH (60°-80°)	753.7	5.4	B2/1000		G2/1000
BVH (80°-90°)	33.0	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





REPORT NUMBER: P633822

CATALOG NUMBER: GWS-SA2F-740-U-T3-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	2567.8	2567.8	2567.8	2567.8	2567.8	2567.8	2567.8	2567.8	2567.8	2567.8	2567.8
2.5°	2563.1	2562.0	2562.0	2568.9	2568.9	2571.3	2574.8	2578.2	2579.4	2573.6	2560.8
5°	2591.0	2591.0	2591.0	2596.9	2596.9	2599.2	2603.8	2605.0	2603.8	2594.5	2581.7
7.5°	2635.2	2635.2	2636.4	2643.4	2649.2	2652.7	2660.8	2659.7	2656.2	2641.0	2624.8
10°	2707.3	2710.8	2714.3	2722.5	2734.1	2742.2	2748.0	2748.0	2743.4	2720.1	2699.2
12.5°	2809.7	2814.3	2817.8	2824.8	2834.1	2848.0	2860.8	2860.8	2855.0	2826.0	2794.6
15°	2929.5	2934.1	2932.9	2935.3	2952.7	2972.5	2983.0	2989.9	2992.3	2951.6	2902.7
17.5°	3066.7	3071.3	3066.7	3059.7	3062.0	3093.4	3112.0	3137.6	3152.7	3098.1	3020.2
20°	3191.1	3186.5	3186.5	3191.1	3198.1	3236.5	3264.4	3306.2	3324.9	3258.6	3137.6
22.5°	3322.5	3333.0	3328.3	3328.3	3356.3	3420.2	3453.9	3508.6	3528.4	3442.3	3279.5
25°	3492.3	3501.6	3499.3	3501.6	3534.2	3624.9	3658.6	3759.8	3779.6	3656.3	3436.5
27.5°	3678.4	3693.5	3700.5	3698.2	3750.5	3869.1	3911.0	4051.7	4087.7	3895.9	3604.0
30°	3920.3	3936.6	3942.4	3940.1	4001.7	4163.3	4211.0	4371.5	4422.7	4179.6	3816.8
32.5°	4200.6	4216.8	4234.3	4241.3	4320.3	4485.5	4554.1	4720.4	4793.7	4507.6	4073.8
35°	4478.5	4492.5	4526.2	4580.8	4689.0	4857.6	4918.1	5082.1	5153.0	4848.3	4384.3
37.5°	4785.5	4794.8	4823.9	4899.5	5055.3	5215.8	5276.3	5433.3	5441.4	5177.4	4735.5
40°	5121.6	5121.6	5115.8	5190.2	5353.0	5514.7	5567.0	5657.7	5610.0	5430.9	5077.4
42.5°	5406.5	5401.9	5406.5	5476.3	5597.2	5728.7	5774.0	5756.6	5696.1	5625.2	5386.8
45°	5663.5	5667.0	5708.9	5762.4	5825.2	5903.1	5929.8	5831.0	5776.3	5781.0	5634.5
47.5°	5838.0	5841.5	5939.2	6028.7	6067.1	6091.5	6079.9	5942.6	5914.7	5967.1	5825.2
50°	5861.2	5879.8	6048.5	6232.2	6327.6	6331.1	6298.5	6131.0	6122.9	6182.2	5927.5
52.5°	5865.9	5884.5	6095.0	6426.4	6674.1	6726.5	6689.3	6514.8	6429.9	6370.6	6053.1
55°	5848.4	5869.4	6102.0	6556.7	7031.2	7240.5	7244.0	6997.4	6726.5	6686.9	6411.3
57.5°	5163.5	5171.6	5532.1	6225.2	7017.2	7610.3	7655.7	7320.7	7011.4	6974.2	6698.6
60°	3597.0	3629.5	4021.5	4936.7	5895.0	6940.4	7087.0	6989.3	6782.3	6511.3	5747.3
62.5°	1801.4	1829.3	2222.4	3087.6	4065.7	4891.3	5048.3	5151.8	5200.7	4909.9	3913.3
65°	775.7	796.6	1040.8	1613.0	2301.5	2700.4	2755.0	2879.4	3184.1	2841.1	2108.4
67.5°	518.7	532.6	657.1	983.9	1356.0	1381.6	1373.4	1400.2	1466.5	1210.6	952.5
70°	397.7	409.4	493.1	721.0	974.5	833.8	789.6	716.4	778.0	793.1	772.2
72.5°	288.4	297.7	360.5	491.9	610.5	532.6	525.7	562.9	646.6	669.9	657.1
75°	186.1	190.7	229.1	269.8	315.2	341.9	355.9	423.3	508.2	525.7	510.5
77.5°	124.4	127.9	150.0	173.3	179.1	180.3	184.9	215.1	273.3	305.9	302.4
80°	65.1	65.1	73.3	73.3	83.7	100.0	104.7	124.4	151.2	167.5	168.6
82.5°	25.6	26.7	31.4	34.9	41.9	51.2	54.7	65.1	79.1	90.7	101.2
85°	10.5	11.6	12.8	15.1	18.6	23.3	24.4	27.9	37.2	46.5	52.3
87.5°	0.0	0.0	1.2	1.2	2.3	3.5	3.5	4.7	5.8	10.5	14.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P633822

CATALOG NUMBER: GWS-SA2F-740-U-T3-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2567.8	2567.8	2567.8	2567.8	2567.8	2567.8	2567.8	2567.8	2567.8	2567.8	2567.8
2.5°	2575.9	2560.8	2575.9	2580.6	2593.4	2598.0	2589.9	2588.7	2588.7	2577.1	2573.6
5°	2593.4	2579.4	2594.5	2601.5	2620.1	2631.7	2634.1	2643.4	2649.2	2644.5	2643.4
7.5°	2636.4	2618.9	2635.2	2645.7	2670.1	2688.7	2696.9	2717.8	2732.9	2730.6	2729.4
10°	2712.0	2688.7	2707.3	2724.8	2751.5	2773.6	2774.8	2786.4	2801.5	2796.9	2794.6
12.5°	2799.2	2777.1	2798.0	2815.5	2846.9	2856.2	2841.1	2836.4	2838.7	2832.9	2828.3
15°	2906.2	2874.8	2893.4	2913.2	2930.6	2920.2	2887.6	2874.8	2873.6	2865.5	2860.8
17.5°	3013.2	2973.6	2987.6	2998.1	2989.9	2957.4	2916.7	2894.6	2884.1	2867.8	2863.2
20°	3119.0	3069.0	3066.7	3058.5	3021.3	2962.0	2907.4	2863.2	2836.4	2814.3	2806.2
22.5°	3240.0	3170.2	3135.3	3098.1	3016.7	2920.2	2837.6	2774.8	2731.8	2703.8	2694.5
25°	3370.2	3271.4	3199.3	3124.8	2970.2	2830.6	2715.5	2629.4	2578.2	2548.0	2537.5
27.5°	3499.3	3363.2	3255.1	3128.3	2877.1	2701.5	2546.8	2430.6	2379.4	2355.0	2346.8
30°	3673.7	3485.3	3321.4	3083.0	2755.0	2522.4	2329.4	2211.9	2178.2	2160.7	2153.8
32.5°	3874.9	3640.0	3409.8	2987.6	2599.2	2313.1	2109.6	2028.2	2004.9	1971.2	1970.0
35°	4140.1	3861.0	3493.5	2846.9	2402.6	2088.6	1941.0	1882.8	1840.9	1787.4	1782.8
37.5°	4449.4	4136.6	3538.8	2667.8	2173.5	1903.7	1815.4	1750.2	1682.8	1611.8	1602.5
40°	4769.2	4458.7	3542.3	2456.1	1949.1	1781.6	1707.2	1622.3	1538.6	1459.5	1449.0
42.5°	5105.3	4758.8	3480.7	2211.9	1765.3	1675.8	1600.2	1493.2	1399.0	1345.5	1339.7
45°	5405.4	5000.7	3341.1	1954.9	1629.3	1587.4	1490.9	1375.8	1325.8	1287.4	1279.2
47.5°	5641.4	5161.1	3152.7	1724.6	1518.8	1496.7	1371.1	1311.8	1273.4	1238.5	1230.4
50°	5757.7	5197.2	2907.4	1537.4	1416.5	1389.7	1303.7	1258.3	1232.7	1204.8	1197.8
52.5°	5901.9	5237.9	2695.7	1380.4	1316.5	1280.4	1247.8	1211.8	1193.2	1175.7	1169.9
55°	6233.4	5391.4	2584.1	1254.8	1221.1	1204.8	1200.2	1169.9	1164.1	1152.5	1142.0
57.5°	6368.3	5292.6	2320.1	1152.5	1145.5	1147.8	1159.5	1131.5	1125.7	1111.8	1104.8
60°	5121.6	4000.5	1571.1	1064.1	1082.7	1097.8	1109.4	1081.5	1073.4	1071.1	1061.8
62.5°	3281.8	2460.8	1096.7	981.5	1009.4	1028.0	1035.0	1008.3	1002.5	1021.1	1022.2
65°	1708.4	1340.9	889.7	893.1	916.4	944.3	958.3	949.0	946.6	966.4	967.6
67.5°	872.2	819.9	775.7	788.5	807.1	843.1	875.7	916.4	930.4	932.7	933.8
70°	743.1	719.9	697.8	705.9	725.7	745.4	776.8	796.6	773.4	767.5	765.2
72.5°	632.6	615.2	604.7	614.0	624.5	621.0	611.7	621.0	624.5	625.7	626.8
75°	491.9	479.1	471.0	472.2	472.2	459.4	441.9	431.5	419.8	410.5	410.5
77.5°	301.2	303.5	311.7	310.5	309.3	304.7	287.2	277.9	250.0	241.9	241.9
80°	172.1	175.6	183.7	186.1	186.1	180.3	162.8	152.3	139.6	133.7	132.6
82.5°	104.7	109.3	114.0	116.3	117.5	110.5	95.4	87.2	80.2	74.4	74.4
85°	54.7	57.0	61.6	62.8	59.3	52.3	44.2	40.7	33.7	32.6	32.6
87.5°	15.1	16.3	18.6	15.1	14.0	10.5	5.8	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)