

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: P633924

Luminaire Tested: GWS-SA2F-760-U-T2-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633924
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-21)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2F-760-U-T2-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSALLED GLARE SHIELD, WH
Light Source: (32) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13645.5 lumens
Efficiency: N/A
Efficacy: 109.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

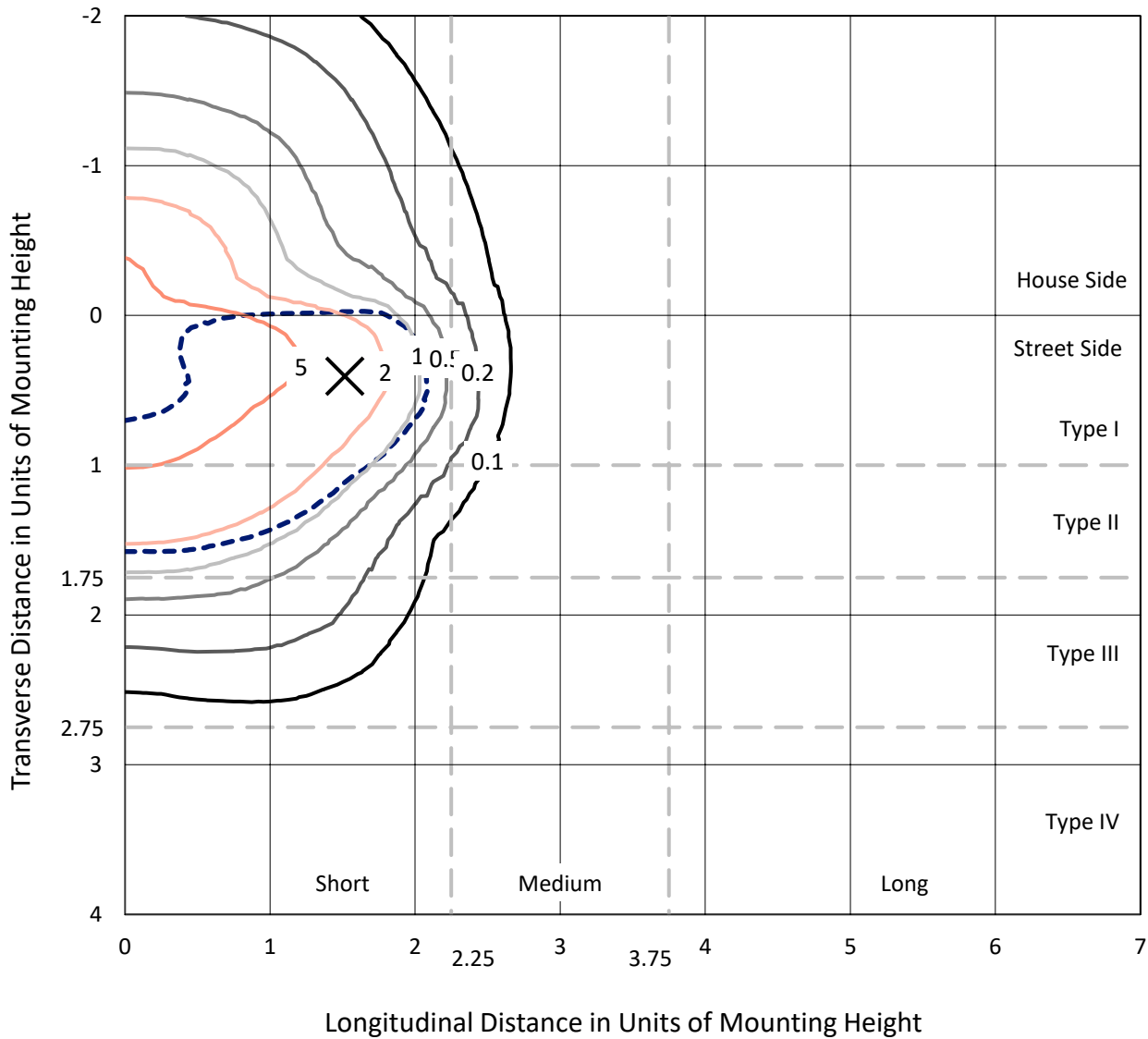
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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 CATALOG NUMBER: GWS-SA2F-760-U-T2-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

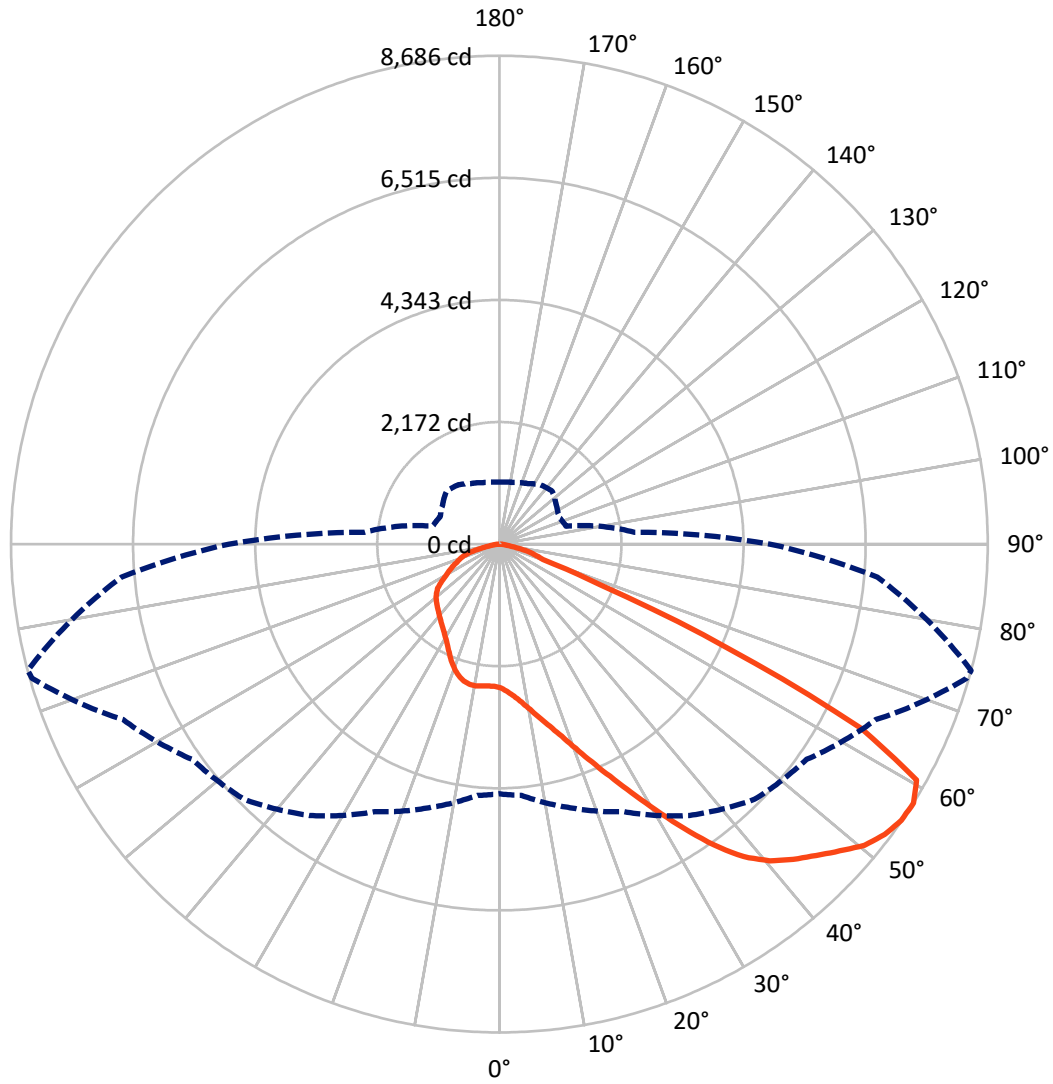
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9 fc
 Type II - Short - N/A

REPORT NUMBER: P633924
CATALOG NUMBER: GWS-SA2F-760-U-T2-W-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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CATALOG NUMBER: GWS-SA2F-760-U-T2-W-GRSWH

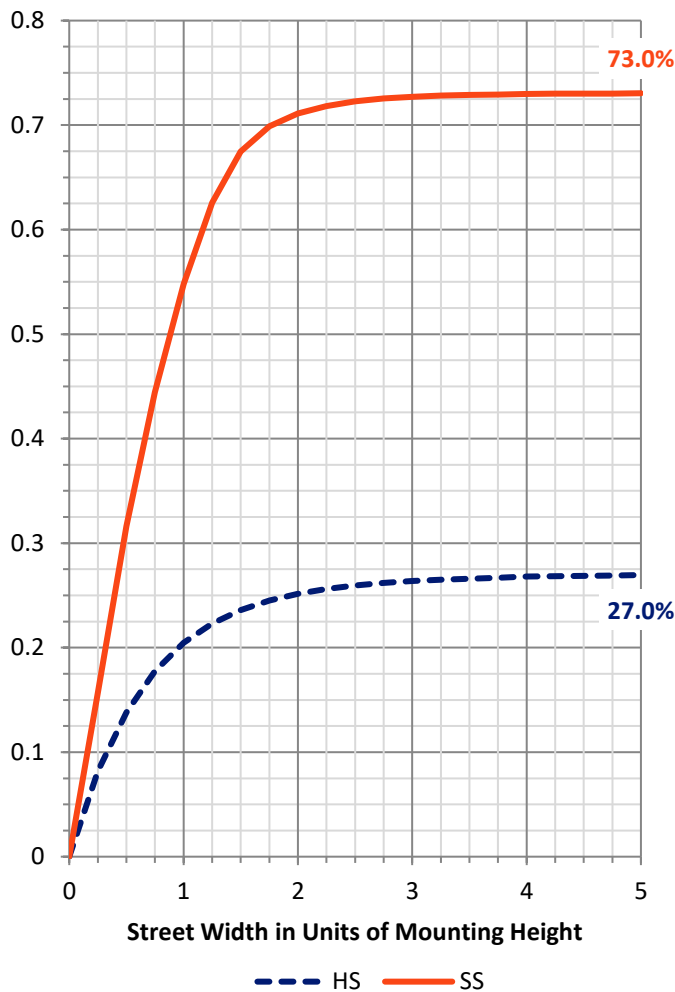
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3691.4	0.0	3691.4
	% Fixture	27.1	0.0	27.1
Street Side	Lumens	9954.1	0.0	9954.1
	% Fixture	72.9	0.0	72.9
Total	Lumens	13645.5	0.0	13645.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.7	1.9
10°-20°	814.2	6.0
20°-30°	1443.9	10.6
30°-40°	2210.4	16.2
40°-50°	3077.8	22.6
50°-60°	3526.5	25.8
60°-70°	1812.0	13.3
70°-80°	456.2	3.3
80°-90°	48.8	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°	13645.5	100.0
0°-180°	13645.5	100.0

Coefficient of Utilization



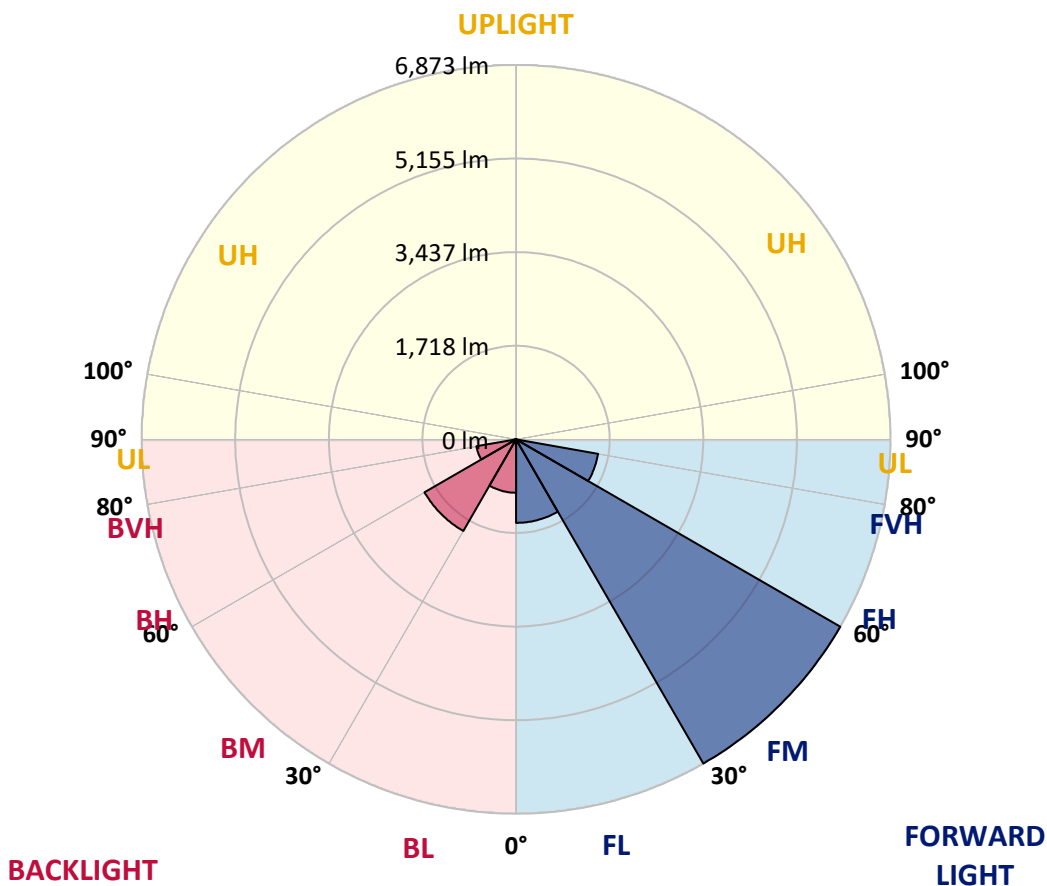
REPORT NUMBER: P633924

CATALOG NUMBER: GWS-SA2F-760-U-T2-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1533.2	11.2			
FM (30°-60°)	6873.4	50.4			
FH (60°-80°)	1529.5	11.2			G1/1800
FVH (80°-90°)	18.0	0.1			G1/100
BL (0°-30°)	980.7	7.2	B2/1000		
BM (30°-60°)	1941.3	14.2	B2/2500		
BH (60°-80°)	738.7	5.4	B2/1000		G2/1000
BVH (80°-90°)	30.7	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type II Short





REPORT NUMBER: P633924

CATALOG NUMBER: GWS-SA2F-760-U-T2-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2555.5	2555.5	2555.5	2555.5	2555.5	2555.5	2555.5	2555.5	2555.5	2555.5	2555.5
2.5°	2745.6	2752.6	2745.6	2757.3	2733.8	2723.3	2697.4	2658.7	2628.2	2623.5	2589.5
5°	2959.1	2974.3	2965.0	2960.3	2928.6	2905.1	2866.4	2789.0	2725.6	2716.2	2649.3
7.5°	3096.4	3106.9	3106.9	3110.5	3098.7	3071.7	3030.7	2939.1	2850.0	2835.9	2735.0
10°	3142.1	3150.3	3165.6	3194.9	3218.4	3226.6	3199.6	3111.6	3002.5	2988.4	2847.6
12.5°	3152.7	3162.1	3185.5	3239.5	3304.0	3362.7	3367.4	3302.9	3180.9	3165.6	2977.9
15°	3172.6	3182.0	3213.7	3280.6	3375.6	3488.3	3557.5	3512.9	3378.0	3361.5	3125.7
17.5°	3170.3	3180.9	3227.8	3317.0	3444.8	3607.9	3741.7	3760.5	3620.8	3592.7	3293.5
20°	3164.4	3173.8	3224.3	3333.4	3491.8	3715.9	3957.6	4055.0	3904.8	3879.0	3489.4
22.5°	3211.4	3221.9	3260.6	3351.0	3516.4	3799.2	4157.0	4391.7	4241.5	4205.2	3714.7
25°	3317.0	3332.2	3355.7	3417.9	3561.0	3873.1	4361.2	4773.0	4619.3	4575.9	3959.9
27.5°	3480.0	3498.8	3531.7	3561.0	3660.7	3967.0	4564.2	5200.1	5046.4	5000.7	4219.2
30°	3679.5	3704.1	3746.4	3766.3	3834.4	4105.4	4784.8	5640.1	5550.9	5487.6	4511.4
32.5°	3955.2	3989.3	4029.2	4035.0	4076.1	4315.4	5003.0	6076.6	6075.4	6030.8	4843.4
35°	4314.3	4350.6	4358.9	4367.1	4387.0	4604.1	5267.0	6474.3	6628.0	6576.4	5204.8
37.5°	4706.2	4759.0	4771.9	4735.5	4763.6	4951.4	5563.8	6793.5	7109.1	7054.0	5554.5
40°	5125.0	5146.1	5181.3	5123.9	5159.1	5349.1	5854.8	6997.6	7468.1	7409.5	5830.2
42.5°	5425.4	5464.1	5516.9	5495.8	5515.7	5689.4	6059.0	7096.2	7723.9	7665.3	6028.5
45°	5751.6	5763.3	5797.3	5792.6	5804.4	5966.3	6205.6	7139.6	7952.7	7899.9	6197.4
47.5°	6035.5	6053.1	6075.4	6049.6	6023.8	6129.4	6325.3	7177.2	8216.7	8153.3	6374.6
50°	6308.9	6324.2	6351.1	6276.0	6179.8	6206.8	6384.0	7228.8	8464.3	8419.7	6514.2
52.5°	6359.4	6375.8	6502.5	6517.8	6394.6	6299.5	6487.2	7342.6	8609.8	8581.6	6564.7
55°	5724.6	5753.9	6006.2	6296.0	6599.9	6569.4	6652.7	7402.4	8667.3	8674.3	6655.0
57.5°	4443.3	4485.6	4854.0	5251.7	5891.2	6420.4	6673.8	7387.2	8647.3	8686.0	6747.7
60°	2914.5	2939.1	3375.6	3821.5	4484.4	5216.5	5973.3	7112.6	8470.1	8525.3	6724.3
62.5°	1760.0	1788.1	2138.9	2476.9	2867.6	3356.8	4051.4	5716.4	7099.7	7222.9	5385.5
65°	1228.5	1266.0	1573.4	1851.5	1986.4	1885.5	2052.1	3192.6	4423.4	4475.0	3291.1
67.5°	890.5	916.4	1168.6	1499.5	1648.5	1331.7	1014.9	1413.8	1926.6	1945.4	1357.5
70°	583.1	612.5	841.3	1141.6	1345.8	1079.4	759.1	765.0	810.8	820.1	788.5
72.5°	320.3	337.9	519.8	758.0	795.5	645.3	592.5	635.9	667.6	667.6	675.8
75°	165.4	180.7	212.4	249.9	301.5	353.2	427.1	491.6	525.6	528.0	524.5
77.5°	84.5	90.3	113.8	123.2	134.9	157.2	204.2	261.6	292.2	303.9	301.5
80°	39.9	42.2	48.1	56.3	69.2	88.0	110.3	131.4	150.2	152.5	165.4
82.5°	21.1	23.5	25.8	30.5	37.5	46.9	64.5	77.4	89.2	91.5	102.1
85°	8.2	9.4	10.6	11.7	16.4	19.9	27.0	36.4	44.6	44.6	52.8
87.5°	0.0	0.0	0.0	0.0	1.2	2.3	4.7	5.9	8.2	8.2	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



REPORT NUMBER: P633924

CATALOG NUMBER: GWS-SA2F-760-U-T2-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2555.5	2555.5	2555.5	2555.5	2555.5	2555.5	2555.5	2555.5	2555.5	2555.5	2555.5
2.5°	2581.3	2547.3	2532.0	2507.4	2487.4	2465.1	2447.5	2434.6	2426.4	2421.7	2417.0
5°	2623.5	2571.9	2530.8	2481.6	2447.5	2414.7	2387.7	2368.9	2359.5	2352.5	2347.8
7.5°	2689.2	2620.0	2542.6	2466.3	2406.5	2353.7	2319.6	2299.7	2286.8	2282.1	2278.6
10°	2779.6	2683.4	2555.5	2434.6	2345.5	2288.0	2264.5	2255.1	2256.3	2253.9	2252.8
12.5°	2881.7	2750.2	2552.0	2378.3	2279.7	2245.7	2246.9	2262.1	2279.7	2284.4	2285.6
15°	2991.9	2815.9	2517.9	2305.6	2228.1	2231.6	2262.1	2298.5	2331.4	2344.3	2346.6
17.5°	3111.6	2871.1	2455.7	2225.8	2185.9	2223.4	2279.7	2339.6	2387.7	2408.8	2414.7
20°	3245.4	2918.0	2367.7	2147.2	2146.0	2208.2	2290.3	2368.9	2429.9	2458.1	2462.8
22.5°	3387.4	2947.4	2259.8	2074.4	2104.9	2188.2	2282.1	2364.2	2428.8	2456.9	2462.8
25°	3530.5	2956.7	2141.3	2007.5	2062.7	2156.5	2242.2	2307.9	2368.9	2393.6	2398.3
27.5°	3664.3	2929.8	2028.7	1950.0	2024.0	2109.6	2167.1	2202.3	2244.5	2263.3	2266.8
30°	3800.4	2875.8	1933.6	1904.3	1980.6	2045.1	2070.9	2073.2	2089.7	2089.7	2092.0
32.5°	3937.6	2796.0	1850.3	1859.7	1926.6	1968.8	1972.3	1945.4	1925.4	1892.6	1891.4
35°	4096.0	2715.0	1782.3	1809.2	1863.2	1889.0	1878.5	1826.8	1778.7	1724.8	1722.4
37.5°	4242.7	2631.7	1724.8	1757.6	1791.6	1810.4	1785.8	1723.6	1683.7	1628.6	1620.3
40°	4363.5	2556.6	1669.6	1703.6	1720.1	1736.5	1696.6	1646.2	1652.0	1621.5	1620.3
42.5°	4433.9	2483.9	1618.0	1643.8	1654.4	1666.1	1630.9	1593.4	1625.0	1601.6	1602.7
45°	4485.6	2420.5	1571.1	1580.5	1606.3	1623.9	1591.0	1548.8	1555.8	1465.5	1444.3
47.5°	4544.2	2385.3	1526.5	1517.1	1562.9	1593.4	1542.9	1481.9	1439.7	1350.5	1342.3
50°	4606.4	2372.4	1479.5	1453.7	1508.9	1538.2	1479.5	1403.3	1348.1	1300.0	1295.3
52.5°	4627.5	2371.3	1420.9	1377.5	1432.6	1473.7	1424.4	1347.0	1281.3	1234.3	1232.0
55°	4710.8	2405.3	1345.8	1273.0	1324.7	1409.1	1372.8	1261.3	1208.5	1187.4	1185.0
57.5°	4808.2	2411.2	1227.3	1159.2	1230.8	1330.5	1284.8	1188.6	1131.1	1105.3	1102.9
60°	4768.3	2266.8	1100.6	1072.4	1151.0	1256.6	1214.4	1131.1	1064.2	1039.6	1037.2
62.5°	3633.7	1600.4	1007.9	997.3	1065.4	1149.8	1141.6	1054.8	991.4	973.8	971.5
65°	2185.9	1124.0	918.7	917.5	965.6	1046.6	1057.2	986.8	919.9	895.2	895.2
67.5°	1080.6	860.0	817.8	811.9	842.4	899.9	944.5	887.0	830.7	807.2	803.7
70°	763.8	758.0	743.9	727.5	733.3	756.8	775.6	727.5	667.6	644.1	639.5
72.5°	660.6	661.7	652.4	639.5	634.8	618.3	601.9	566.7	530.3	505.7	508.0
75°	512.7	515.1	521.0	516.3	503.4	485.8	468.2	423.6	394.2	370.8	366.1
77.5°	299.2	310.9	329.7	325.0	327.4	302.7	295.7	252.3	225.3	208.8	205.3
80°	169.0	176.0	184.2	190.1	183.0	172.5	157.2	133.8	125.5	113.8	111.5
82.5°	102.1	109.1	112.6	117.3	115.0	100.9	89.2	73.9	66.9	61.0	59.8
85°	51.6	56.3	59.8	62.2	55.1	45.8	41.1	32.9	28.2	24.6	24.6
87.5°	12.9	14.1	16.4	14.1	12.9	5.9	4.7	1.2	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)