

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: P633600

Luminaire Tested: GWS-SA2F-722-U-T2R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633600
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2F-722-U-T2R-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: (32) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12184.6 lumens
Efficiency: N/A
Efficacy: 97.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

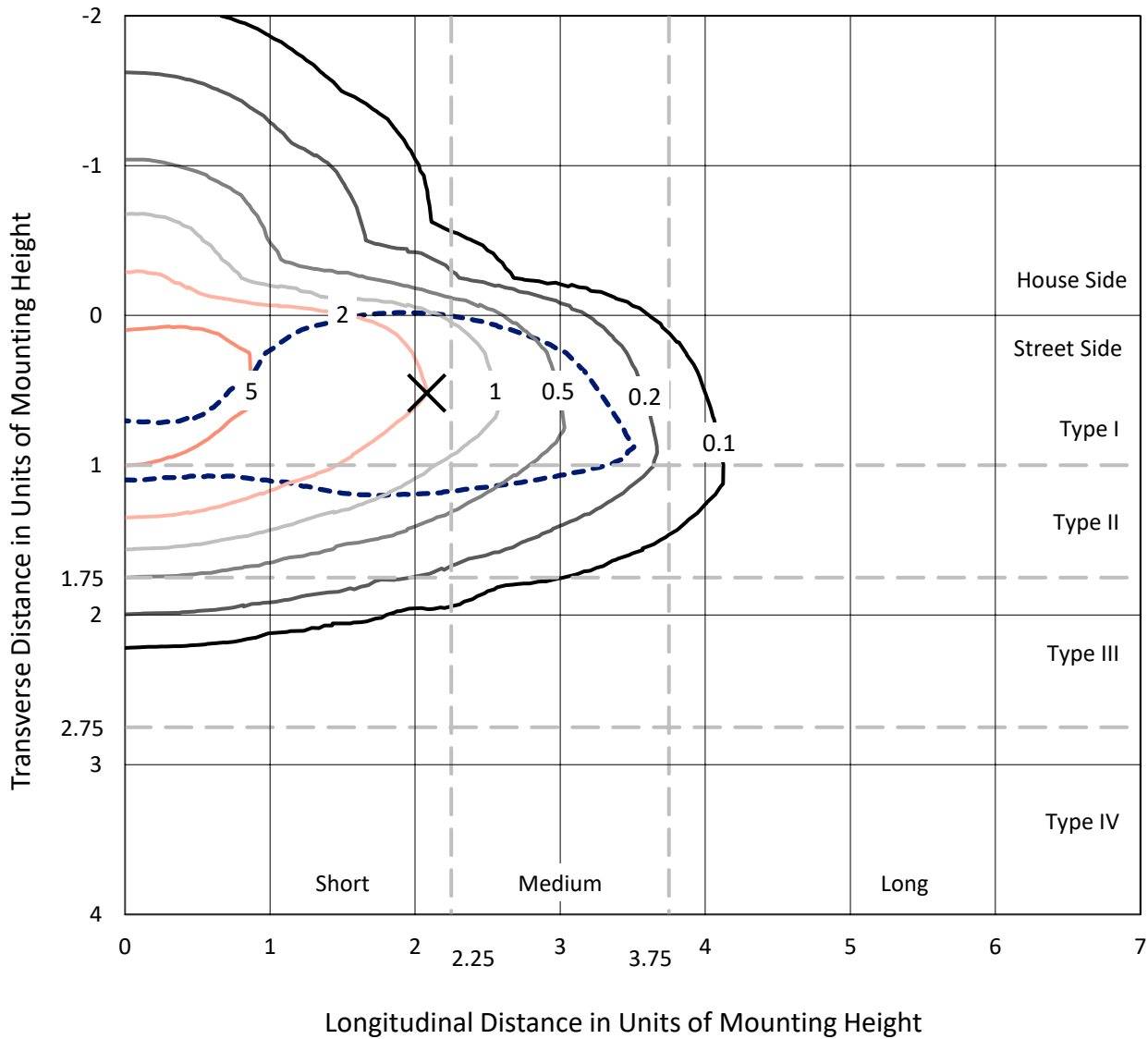
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P633600
 CATALOG NUMBER: GWS-SA2F-722-U-T2R-W

Iso-Footcandle Lines of Horizontal Illumination

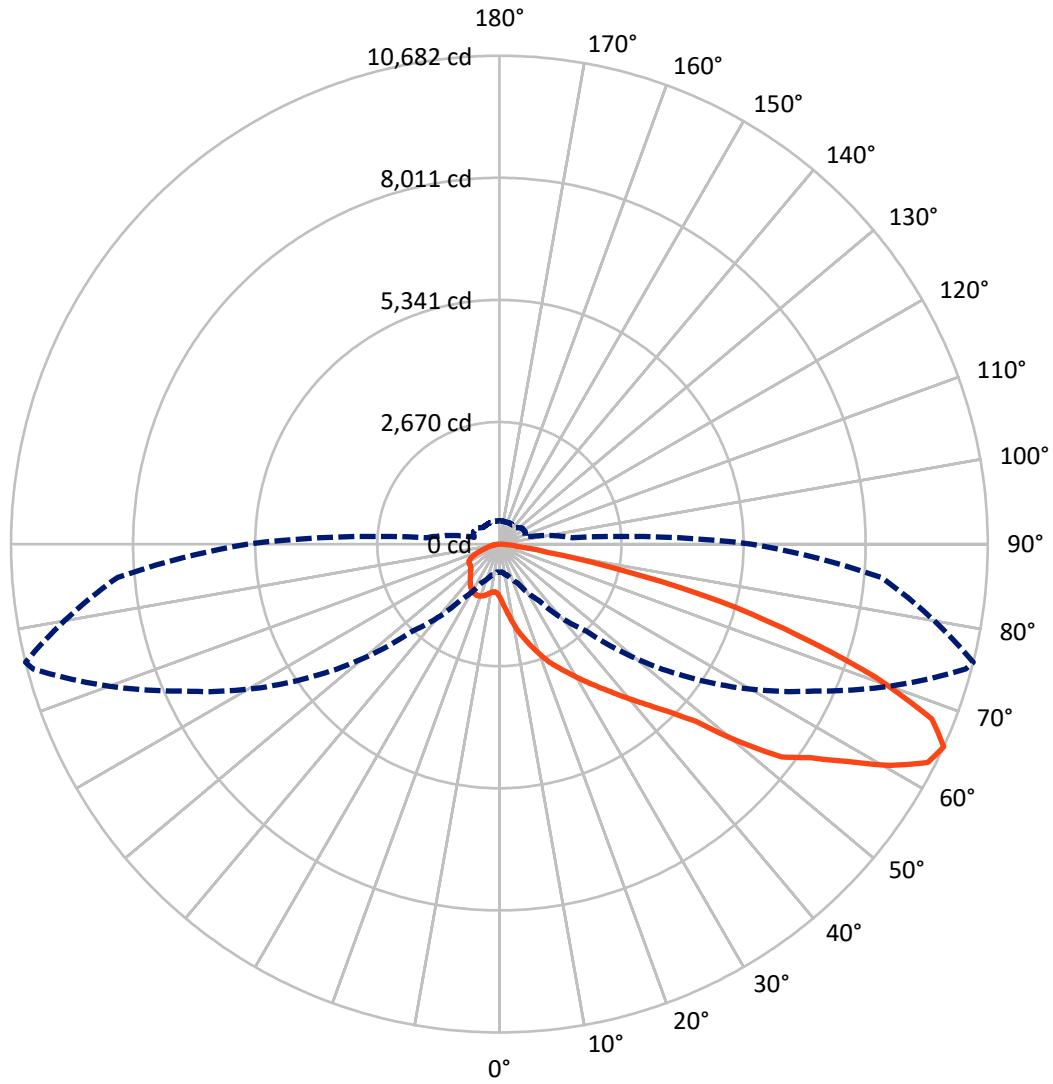
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.5 fc
 Type II - Short - N/A

REPORT NUMBER: P633600
CATALOG NUMBER: GWS-SA2F-722-U-T2R-W

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P633600

CATALOG NUMBER: GWS-SA2F-722-U-T2R-W

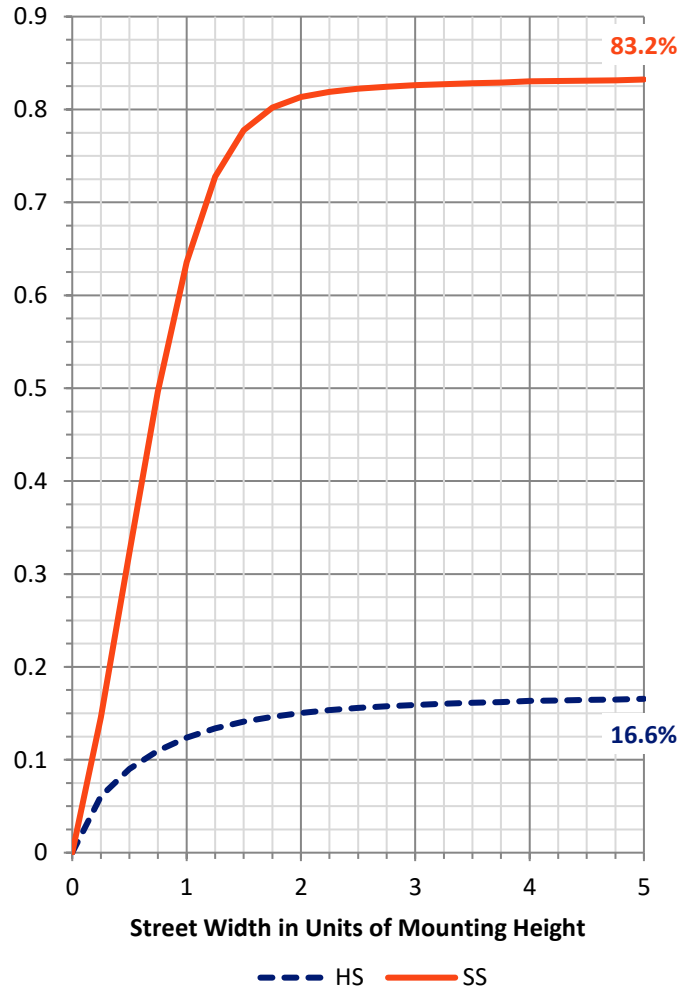
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2036.7	0.0	2036.7
	% Fixture	16.7	0.0	16.7
Street Side	Lumens	10147.9	0.0	10147.9
	% Fixture	83.3	0.0	83.3
Total	Lumens	12184.6	0.0	12184.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.1	1.1
10°-20°	522.1	4.3
20°-30°	1017.6	8.4
30°-40°	1701.8	14.0
40°-50°	2436.7	20.0
50°-60°	2884.7	23.7
60°-70°	2398.6	19.7
70°-80°	981.6	8.1
80°-90°	104.5	0.9
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°	12184.6	100.0
0°-180°	12184.6	100.0

Coefficient of Utilization



REPORT NUMBER: P633600

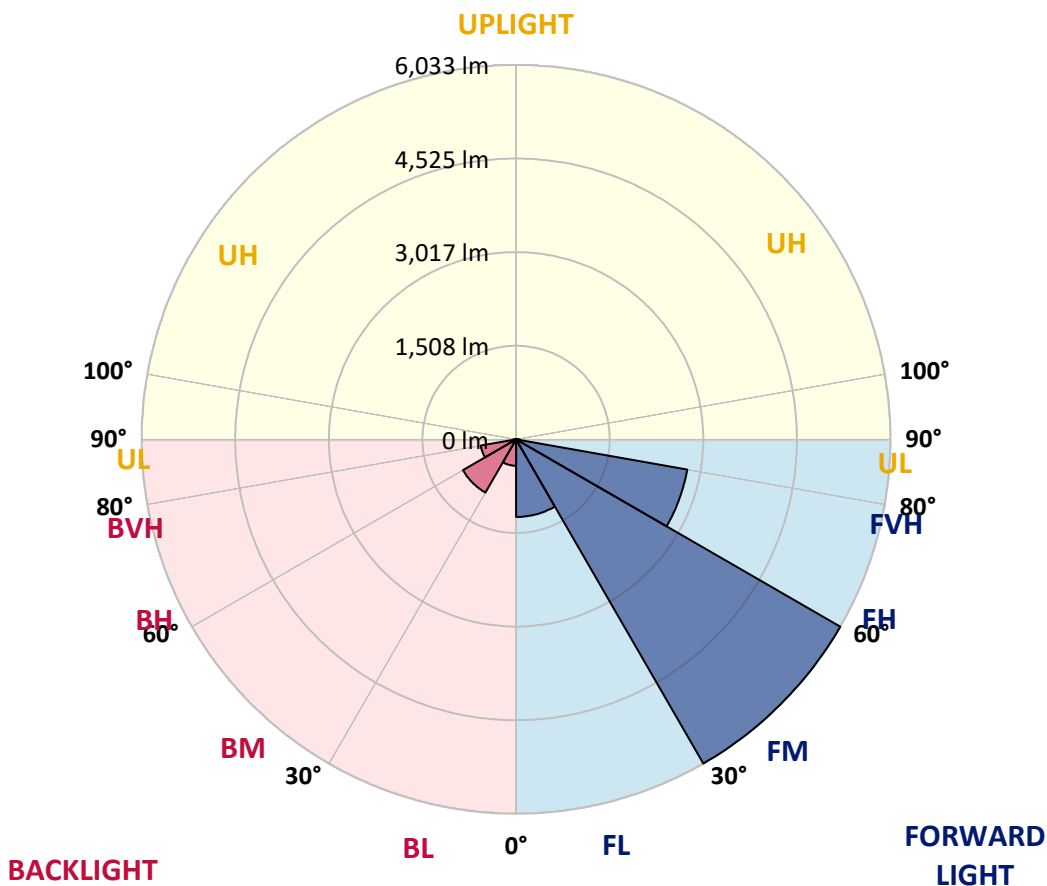
CATALOG NUMBER: GWS-SA2F-722-U-T2R-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1250.7	10.3			
FM (30°-60°)	6033.3	49.5			
FH (60°-80°)	2801.6	23.0			G2/5000
FVH (80°-90°)	62.3	0.5			G1/100
BL (0°-30°)	426.1	3.5	B1/500		
BM (30°-60°)	989.8	8.1	B1/1000		
BH (60°-80°)	578.6	4.7	B2/1000		G2/1000
BVH (80°-90°)	42.2	0.3			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: P633600
 CATALOG NUMBER: GWS-SA2F-722-U-T2R-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1153.8	1153.8	1153.8	1153.8	1153.8	1153.8	1153.8	1153.8	1153.8	1153.8	1153.8
2.5°	1617.3	1623.3	1603.6	1596.7	1550.4	1487.9	1435.7	1356.9	1284.0	1272.9	1207.8
5°	2054.1	2028.4	2006.2	1991.6	1927.3	1856.2	1745.7	1597.6	1442.5	1423.7	1283.2
7.5°	2313.7	2309.4	2282.0	2273.4	2223.7	2152.6	2038.7	1854.5	1629.2	1598.4	1385.1
10°	2521.8	2519.3	2505.5	2513.3	2467.9	2398.5	2288.0	2097.8	1834.0	1803.1	1499.0
12.5°	2703.4	2707.7	2705.1	2733.4	2710.3	2656.3	2541.5	2332.5	2038.7	2005.3	1637.8
15°	2836.2	2839.6	2852.5	2914.1	2927.0	2915.9	2799.4	2562.9	2240.9	2192.9	1780.9
17.5°	2873.9	2880.7	2911.6	3010.9	3080.3	3126.6	3040.1	2797.6	2439.6	2387.3	1926.5
20°	2924.4	2932.1	2963.0	3066.6	3168.6	3273.9	3258.5	3035.8	2640.0	2597.2	2073.8
22.5°	3158.3	3152.3	3138.6	3188.3	3261.1	3392.1	3430.7	3264.5	2847.3	2806.2	2236.6
25°	3608.8	3597.7	3510.3	3464.9	3441.0	3520.6	3589.1	3472.6	3049.5	2987.8	2388.2
27.5°	4105.7	4099.7	3988.3	3880.4	3733.1	3698.8	3739.0	3654.2	3245.6	3183.1	2520.1
30°	4575.9	4558.0	4441.5	4306.1	4109.1	3961.8	3902.7	3832.4	3460.7	3395.6	2674.3
32.5°	4996.5	4973.4	4836.3	4686.4	4480.0	4306.1	4129.7	4021.7	3703.9	3628.5	2831.9
35°	5341.7	5318.6	5178.1	5018.8	4791.8	4663.3	4421.8	4227.3	3951.5	3875.2	3017.8
37.5°	5609.0	5587.6	5441.1	5284.3	5086.5	4984.5	4774.7	4458.6	4236.7	4157.1	3214.8
40°	5758.9	5743.5	5626.1	5501.9	5335.7	5247.5	5153.3	4750.7	4556.2	4476.6	3446.9
42.5°	5804.3	5794.0	5711.8	5647.5	5535.3	5468.5	5522.5	5094.2	4897.2	4827.8	3708.2
45°	5690.4	5690.4	5666.4	5698.9	5704.1	5703.2	5892.5	5482.2	5316.0	5239.8	4076.5
47.5°	5399.1	5418.0	5453.1	5613.3	5782.0	5923.4	6325.1	5999.6	5854.8	5792.3	4598.2
50°	4866.3	4917.7	5037.6	5350.3	5709.2	6069.0	6734.6	6764.5	6902.5	6792.0	5365.7
52.5°	4086.0	4078.3	4384.1	4829.5	5376.9	6075.0	6959.9	7439.5	7810.5	7734.2	5936.2
55°	3247.4	3234.5	3519.8	4133.9	4867.2	5845.4	7095.2	7748.8	8314.1	8245.6	6449.3
57.5°	2486.7	2470.4	2724.0	3278.2	4147.6	5358.0	7069.5	8117.1	9007.1	8972.0	7146.6
60°	1711.5	1691.8	1929.1	2413.9	3296.2	4612.8	6785.1	8306.4	9818.3	9830.3	7892.7
62.5°	1027.9	1016.8	1189.0	1565.0	2371.1	3689.4	6119.5	8191.6	10464.2	10518.2	8372.4
65°	620.2	612.5	713.5	933.7	1504.2	2692.3	5093.3	7604.9	10557.6	10681.8	8383.5
67.5°	451.4	452.3	481.4	568.8	877.2	1738.9	3822.1	6553.0	10071.0	10199.5	7855.0
70°	392.3	394.0	409.5	429.2	530.2	995.4	2485.0	5173.0	8632.8	8732.2	6588.1
72.5°	348.6	348.6	358.9	369.2	414.6	606.5	1331.2	3615.7	6813.4	6839.9	5028.2
75°	306.7	304.1	309.2	314.4	359.8	424.0	647.6	2519.3	5032.5	4970.8	3249.9
77.5°	244.1	241.6	242.4	247.6	288.7	303.2	328.1	1573.6	2836.2	2676.9	1435.7
80°	173.9	172.2	181.6	194.4	213.3	185.9	205.6	761.5	1124.7	1046.8	556.8
82.5°	103.6	107.1	121.6	131.9	147.3	116.5	132.8	254.4	398.3	388.0	226.1
85°	14.6	15.4	43.7	50.5	63.4	45.4	70.2	114.8	159.3	170.5	79.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	6.0	20.6	45.4	46.3	19.7
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: P633600
 CATALOG NUMBER: GWS-SA2F-722-U-T2R-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1153.8	1153.8	1153.8	1153.8	1153.8	1153.8	1153.8	1153.8	1153.8	1153.8	1153.8
2.5°	1174.4	1134.1	1076.7	1028.8	988.5	956.0	928.6	908.0	902.0	893.4	893.4
5°	1217.2	1144.4	1041.6	968.8	926.8	902.0	884.9	876.3	872.0	866.9	864.3
7.5°	1276.3	1174.4	1035.6	962.0	929.4	914.0	902.9	897.7	894.3	889.1	889.1
10°	1357.7	1218.9	1054.5	985.9	960.2	944.8	932.0	923.4	915.7	908.0	906.3
12.5°	1445.9	1277.2	1088.7	1018.5	991.1	972.2	954.2	941.4	932.0	922.6	920.0
15°	1543.6	1337.1	1125.6	1050.2	1015.9	990.2	968.8	949.1	936.3	922.6	920.8
17.5°	1639.5	1398.0	1156.4	1071.6	1027.9	996.2	965.4	939.7	923.4	908.0	903.7
20°	1754.3	1458.8	1177.8	1077.6	1025.3	983.4	946.5	914.0	896.0	878.0	875.4
22.5°	1859.7	1515.3	1188.1	1069.0	1005.6	956.0	913.1	878.0	858.3	840.3	836.9
25°	1961.6	1565.0	1183.8	1048.5	975.7	918.3	873.7	838.6	819.8	800.9	795.8
27.5°	2060.1	1598.4	1166.7	1016.8	938.0	876.3	833.5	801.8	785.5	769.2	762.4
30°	2156.9	1629.2	1140.1	975.7	890.0	832.6	797.5	775.2	758.9	741.8	736.7
32.5°	2254.6	1651.5	1099.9	927.7	841.2	794.1	772.7	756.4	739.2	722.1	717.0
35°	2353.1	1660.9	1051.0	872.9	800.1	769.2	761.5	742.7	719.5	699.0	692.1
37.5°	2470.4	1669.5	990.2	818.9	764.1	757.2	755.5	727.3	699.8	671.6	663.9
40°	2611.8	1680.6	927.7	770.1	735.0	752.9	746.1	707.5	652.7	625.3	616.8
42.5°	2784.8	1701.2	862.6	725.5	713.5	736.7	729.0	659.6	622.7	607.3	603.0
45°	3039.2	1776.6	797.5	690.4	697.3	713.5	701.6	631.3	616.8	606.5	601.3
47.5°	3492.3	1892.2	741.0	663.9	684.4	693.0	646.7	623.6	612.5	598.8	592.8
50°	3963.5	1942.8	695.6	647.6	669.9	674.1	616.8	613.3	605.6	591.1	585.1
52.5°	4282.1	1935.9	668.1	641.6	657.9	641.6	603.0	602.2	597.0	579.9	573.1
55°	4641.9	1947.9	656.2	643.3	652.7	586.8	585.9	588.5	585.9	567.1	563.6
57.5°	5127.6	1984.7	650.2	649.3	649.3	560.2	569.6	573.1	567.9	559.4	556.8
60°	5594.4	1987.3	639.0	656.2	646.7	543.9	550.8	554.2	548.2	546.5	545.7
62.5°	5770.0	1864.0	614.2	651.0	636.5	526.0	531.1	532.8	526.8	531.1	530.2
65°	5508.8	1601.8	573.1	626.2	604.8	509.7	506.2	510.5	500.3	511.4	512.2
67.5°	4891.2	1272.9	510.5	579.1	560.2	491.7	484.8	484.8	467.7	484.8	484.0
70°	3943.8	899.4	418.9	503.7	511.4	470.3	466.8	447.1	419.7	445.4	442.9
72.5°	2989.5	645.9	329.8	398.3	440.3	440.3	441.1	407.7	376.0	388.0	377.8
75°	1893.9	454.9	263.8	304.9	345.2	386.3	406.0	344.4	316.1	310.9	305.8
77.5°	853.2	299.0	205.6	233.9	245.0	304.9	370.9	296.4	257.8	246.7	243.3
80°	357.2	185.9	146.5	165.3	150.8	256.1	327.2	230.4	189.3	173.9	162.8
82.5°	156.8	110.5	93.4	89.1	94.2	190.2	244.1	153.3	118.2	160.2	161.9
85°	66.0	58.2	48.0	43.7	38.5	72.8	114.8	60.0	73.7	42.0	34.3
87.5°	15.4	17.1	12.8	8.6	5.1	0.9	0.0	0.0	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)