

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: P637010

Luminaire Tested: GWS-SA4B-830-U-T2R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637010
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-SA4B-830-U-T2R-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11724.5 lumens
Efficiency: N/A
Efficacy: 124.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 94.4
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

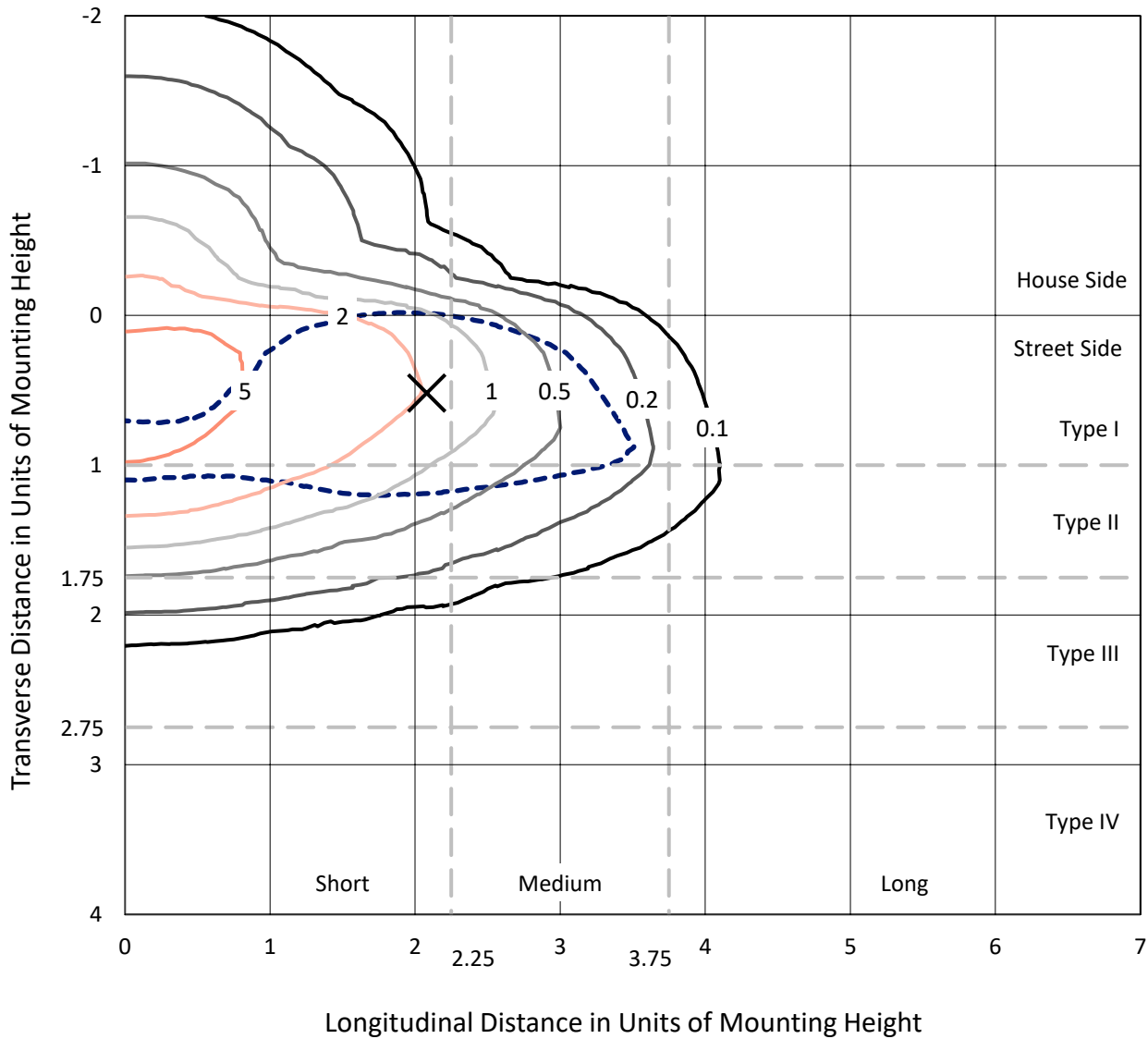


REPORT NUMBER: P637010

CATALOG NUMBER: GWS-SA4B-830-U-T2R-W

Iso-Footcandle Lines of Horizontal Illumination

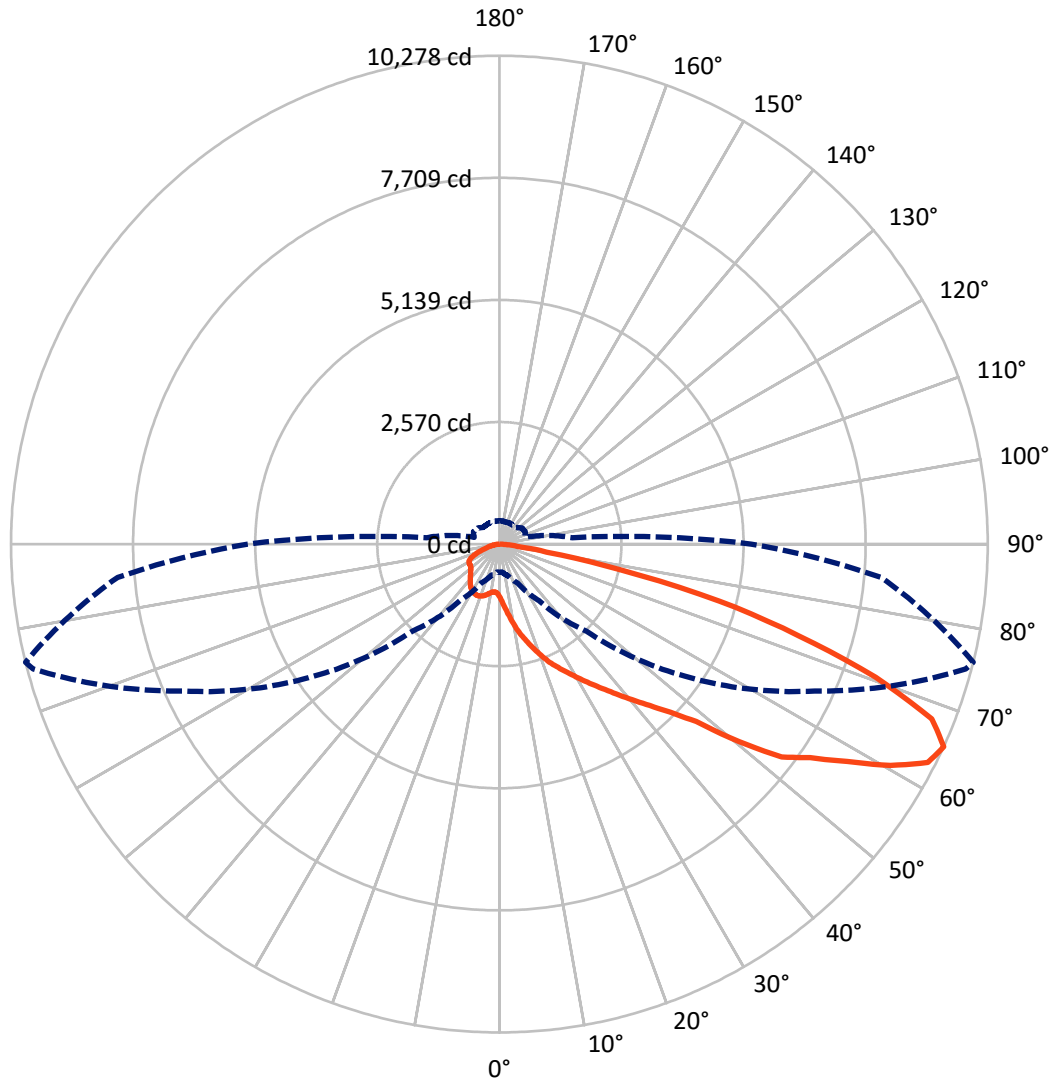
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P637010
CATALOG NUMBER: GWS-SA4B-830-U-T2R-W

Luminous Intensity Polar Plot



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

REPORT NUMBER: P637010

CATALOG NUMBER: GWS-SA4B-830-U-T2R-W

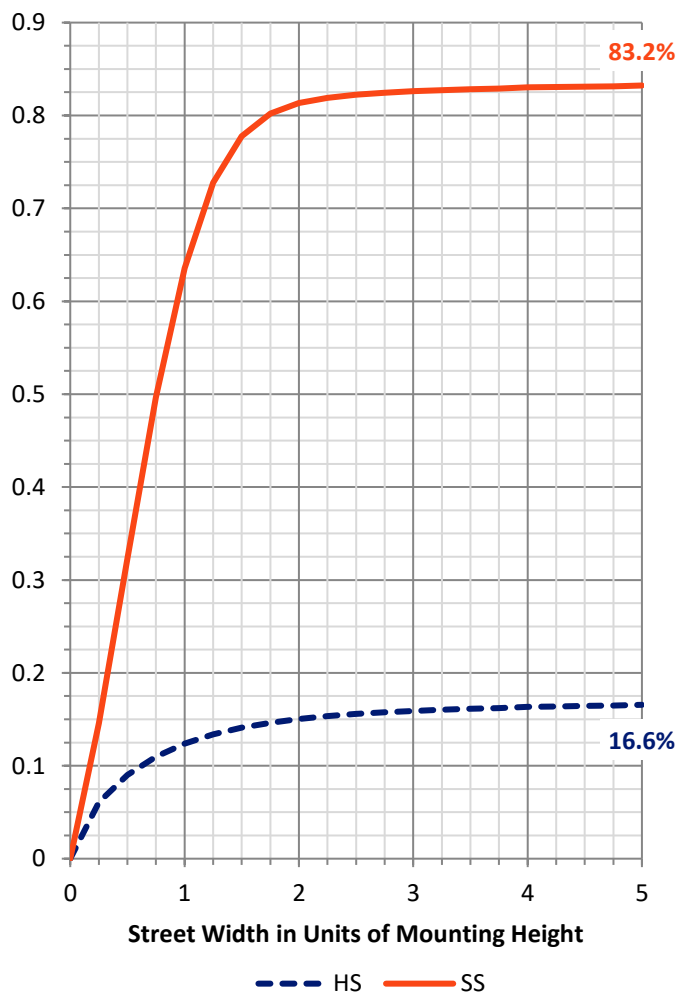
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1959.8	0.0	1959.8
	% Fixture	16.7	0.0	16.7
Street Side	Lumens	9764.7	0.0	9764.7
	% Fixture	83.3	0.0	83.3
Total	Lumens	11724.5	0.0	11724.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.9	1.1
10°-20°	502.4	4.3
20°-30°	979.1	8.4
30°-40°	1637.5	14.0
40°-50°	2344.6	20.0
50°-60°	2775.7	23.7
60°-70°	2308.0	19.7
70°-80°	944.5	8.1
80°-90°	100.6	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°	11724.5	100.0
0°-180°	11724.5	100.0

Coefficient of Utilization



REPORT NUMBER: P637010

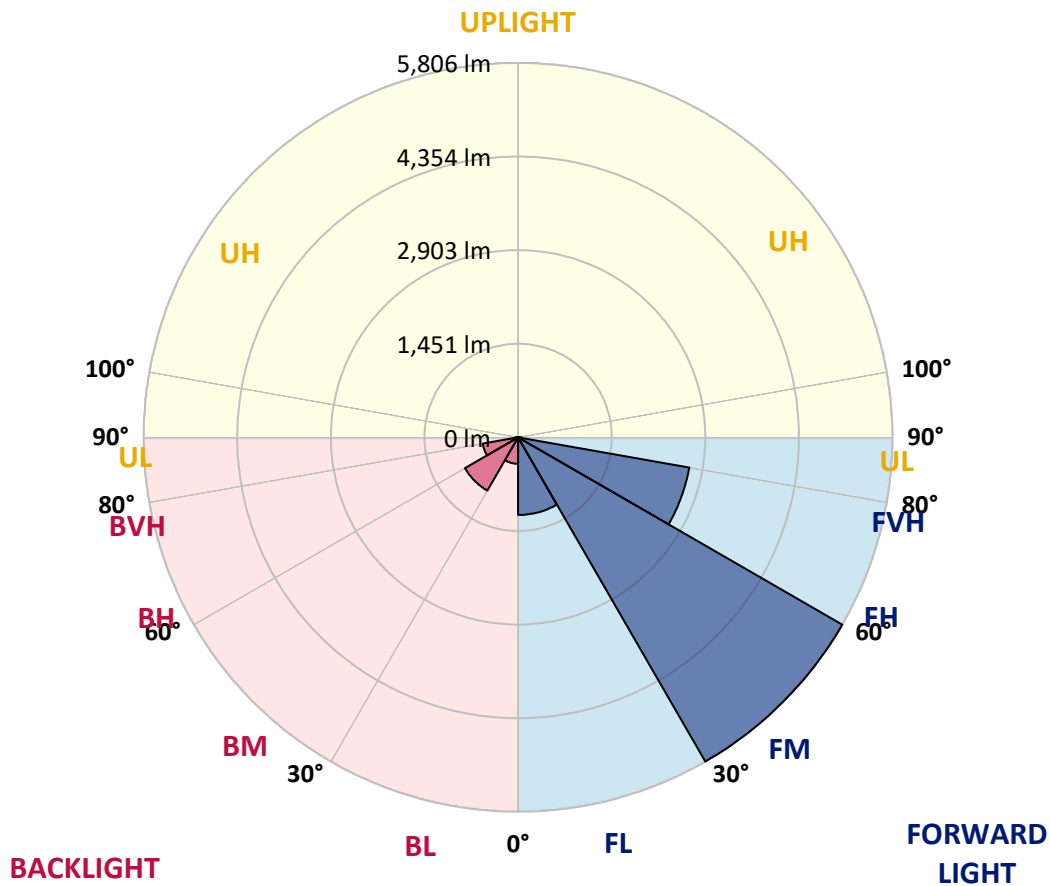
CATALOG NUMBER: GWS-SA4B-830-U-T2R-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1203.5	10.3			
FM (30°-60°)	5805.5	49.5			
FH (60°-80°)	2695.8	23.0			G2/5000
FVH (80°-90°)	60.0	0.5			G1/100
BL (0°-30°)	410.0	3.5	B1/500		
BM (30°-60°)	952.4	8.1	B1/1000		
BH (60°-80°)	556.8	4.7	B2/1000		G2/1000
BVH (80°-90°)	40.6	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: P637010
 CATALOG NUMBER: GWS-SA4B-830-U-T2R-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1110.3	1110.3	1110.3	1110.3	1110.3	1110.3	1110.3	1110.3	1110.3	1110.3	1110.3
2.5°	1556.2	1562.0	1543.0	1536.4	1491.9	1431.7	1381.4	1305.6	1235.6	1224.8	1162.2
5°	1976.6	1951.8	1930.4	1916.4	1854.6	1786.2	1679.8	1537.2	1388.0	1369.9	1234.7
7.5°	2226.3	2222.2	2195.8	2187.6	2139.8	2071.3	1961.7	1784.5	1567.7	1538.1	1332.8
10°	2426.6	2424.1	2410.9	2418.4	2374.7	2307.9	2201.6	2018.6	1764.7	1735.0	1442.4
12.5°	2601.3	2605.5	2603.0	2630.2	2607.9	2556.0	2445.6	2244.4	1961.7	1929.6	1576.0
15°	2729.1	2732.4	2744.8	2804.1	2816.5	2805.8	2693.7	2466.2	2156.2	2110.1	1713.6
17.5°	2765.4	2772.0	2801.6	2897.2	2964.0	3008.5	2925.3	2692.0	2347.5	2297.2	1853.7
20°	2814.0	2821.4	2851.1	2950.8	3048.9	3150.3	3135.5	2921.1	2540.3	2499.1	1995.5
22.5°	3039.0	3033.2	3020.1	3067.9	3137.9	3264.0	3301.1	3141.2	2739.8	2700.2	2152.1
25°	3472.6	3461.9	3377.8	3334.1	3311.0	3387.7	3453.6	3341.5	2934.3	2875.0	2298.0
27.5°	3950.6	3944.9	3837.7	3733.9	3592.1	3559.1	3597.9	3516.3	3123.1	3062.9	2424.9
30°	4403.2	4385.8	4273.7	4143.5	3953.9	3812.2	3755.3	3687.7	3330.0	3267.3	2573.3
32.5°	4807.9	4785.6	4653.7	4509.5	4310.8	4143.5	3973.7	3869.9	3564.1	3491.5	2725.0
35°	5140.0	5117.8	4982.6	4829.3	4610.9	4487.2	4254.8	4067.7	3802.3	3728.9	2903.8
37.5°	5397.2	5376.6	5235.6	5084.8	4894.4	4796.3	4594.4	4290.2	4076.7	4000.1	3093.4
40°	5541.4	5526.6	5413.7	5294.2	5134.3	5049.4	4958.7	4571.3	4384.2	4307.5	3316.8
42.5°	5585.1	5575.2	5496.1	5434.3	5326.3	5262.0	5313.9	4901.8	4712.2	4645.5	3568.2
45°	5475.5	5475.5	5452.4	5483.7	5488.7	5487.9	5670.0	5275.2	5115.3	5041.9	3922.6
47.5°	5195.3	5213.4	5247.2	5401.3	5563.7	5699.7	6086.3	5773.1	5633.8	5573.6	4424.6
50°	4682.6	4732.0	4847.4	5148.3	5493.6	5839.8	6480.3	6509.1	6641.8	6535.5	5163.1
52.5°	3931.7	3924.3	4218.5	4647.1	5173.8	5845.6	6697.0	7158.6	7515.5	7442.2	5712.1
55°	3124.7	3112.4	3386.8	3977.8	4683.4	5624.7	6827.3	7456.2	8000.2	7934.2	6205.8
57.5°	2392.8	2377.1	2621.1	3154.4	3991.0	5155.7	6802.5	7810.6	8667.0	8633.2	6876.7
60°	1646.9	1627.9	1856.2	2322.7	3171.7	4438.6	6528.9	7992.8	9447.6	9459.1	7594.7
62.5°	989.1	978.4	1144.1	1505.9	2281.5	3550.1	5888.5	7882.3	10069.1	10121.0	8056.2
65°	596.8	589.3	686.6	898.4	1447.4	2590.6	4901.0	7317.7	10158.9	10278.4	8066.9
67.5°	434.4	435.2	463.2	547.3	844.0	1673.2	3677.8	6305.5	9690.7	9814.4	7558.4
70°	377.5	379.2	394.0	413.0	510.2	957.8	2391.2	4977.7	8306.8	8402.4	6339.3
72.5°	335.5	335.5	345.4	355.3	398.9	583.6	1280.9	3479.2	6556.1	6581.6	4838.4
75°	295.1	292.6	297.6	302.5	346.2	408.0	623.1	2424.1	4842.5	4783.1	3127.2
77.5°	234.9	232.4	233.3	238.2	277.8	291.8	315.7	1514.2	2729.1	2575.8	1381.4
80°	167.3	165.7	174.7	187.1	205.2	178.9	197.8	732.8	1082.2	1007.2	535.8
82.5°	99.7	103.0	117.0	126.9	141.8	112.1	127.8	244.8	383.3	373.4	217.6
85°	14.0	14.8	42.0	48.6	61.0	43.7	67.6	110.4	153.3	164.0	76.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	5.8	19.8	43.7	44.5	19.0
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: P637010
 CATALOG NUMBER: GWS-SA4B-830-U-T2R-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1110.3	1110.3	1110.3	1110.3	1110.3	1110.3	1110.3	1110.3	1110.3	1110.3	1110.3
2.5°	1130.0	1091.3	1036.1	989.9	951.2	919.9	893.5	873.7	867.9	859.7	859.7
5°	1171.3	1101.2	1002.3	932.2	891.8	867.9	851.5	843.2	839.1	834.1	831.7
7.5°	1228.1	1130.0	996.5	925.6	894.3	879.5	868.8	863.8	860.5	855.6	855.6
10°	1306.4	1172.9	1014.7	948.7	924.0	909.1	896.8	888.5	881.1	873.7	872.1
12.5°	1391.3	1229.0	1047.6	980.0	953.7	935.5	918.2	905.9	896.8	887.7	885.2
15°	1485.3	1286.7	1083.1	1010.5	977.6	952.8	932.2	913.3	900.9	887.7	886.1
17.5°	1577.6	1345.2	1112.7	1031.1	989.1	958.6	928.9	904.2	888.5	873.7	869.6
20°	1688.1	1403.7	1133.3	1036.9	986.6	946.2	910.8	879.5	862.2	844.9	842.4
22.5°	1789.5	1458.1	1143.2	1028.7	967.7	919.9	878.7	844.9	825.9	808.6	805.3
25°	1887.5	1505.9	1139.1	1008.9	938.8	883.6	840.7	806.9	788.8	770.7	765.7
27.5°	1982.3	1538.1	1122.6	978.4	902.6	843.2	802.0	771.5	755.8	740.2	733.6
30°	2075.5	1567.7	1097.1	938.8	856.4	801.2	767.4	745.9	730.3	713.8	708.9
32.5°	2169.4	1589.2	1058.3	892.7	809.4	764.1	743.5	727.8	711.3	694.8	689.9
35°	2264.2	1598.2	1011.4	839.9	769.9	740.2	732.8	714.6	692.4	672.6	666.0
37.5°	2377.1	1606.5	952.8	788.0	735.2	728.6	727.0	699.8	673.4	646.2	638.8
40°	2513.1	1617.2	892.7	741.0	707.2	724.5	717.9	680.8	628.1	601.7	593.5
42.5°	2679.6	1637.0	830.0	698.1	686.6	708.9	701.4	634.7	599.2	584.4	580.3
45°	2924.4	1709.5	767.4	664.3	670.9	686.6	675.1	607.5	593.5	583.6	578.6
47.5°	3360.5	1820.8	713.0	638.8	658.6	666.8	622.3	600.1	589.3	576.2	570.4
50°	3813.8	1869.4	669.3	623.1	644.6	648.7	593.5	590.2	582.7	568.7	563.0
52.5°	4120.4	1862.8	642.9	617.4	633.0	617.4	580.3	579.4	574.5	558.0	551.4
55°	4466.6	1874.3	631.4	619.0	628.1	564.6	563.8	566.3	563.8	545.7	542.4
57.5°	4934.0	1909.8	625.6	624.8	624.8	539.1	548.1	551.4	546.5	538.2	535.8
60°	5383.2	1912.3	614.9	631.4	622.3	523.4	530.0	533.3	527.5	525.9	525.0
62.5°	5552.2	1793.6	591.0	626.4	612.4	506.1	511.0	512.7	506.9	511.0	510.2
65°	5300.8	1541.4	551.4	602.5	581.9	490.4	487.1	491.3	481.4	492.1	492.9
67.5°	4706.5	1224.8	491.3	557.2	539.1	473.1	466.5	466.5	450.0	466.5	465.7
70°	3794.9	865.5	403.1	484.7	492.1	452.5	449.2	430.3	403.9	428.6	426.1
72.5°	2876.6	621.5	317.3	383.3	423.7	423.7	424.5	392.3	361.8	373.4	363.5
75°	1822.4	437.7	253.9	293.4	332.2	371.7	390.7	331.3	304.1	299.2	294.3
77.5°	821.0	287.7	197.8	225.0	235.7	293.4	356.9	285.2	248.1	237.4	234.1
80°	343.7	178.9	140.9	159.1	145.1	246.5	314.9	221.7	182.2	167.3	156.6
82.5°	150.8	106.3	89.8	85.7	90.7	183.0	234.9	147.5	113.7	154.1	155.8
85°	63.5	56.0	46.2	42.0	37.1	70.1	110.4	57.7	70.9	40.4	33.0
87.5°	14.8	16.5	12.4	8.2	4.9	0.8	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)