

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: P639975

Luminaire Tested: GWS-SA5C-830-U-T2-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639975
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-22)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5C-830-U-T2-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14169.5 lumens
Efficiency: N/A
Efficacy: 90.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

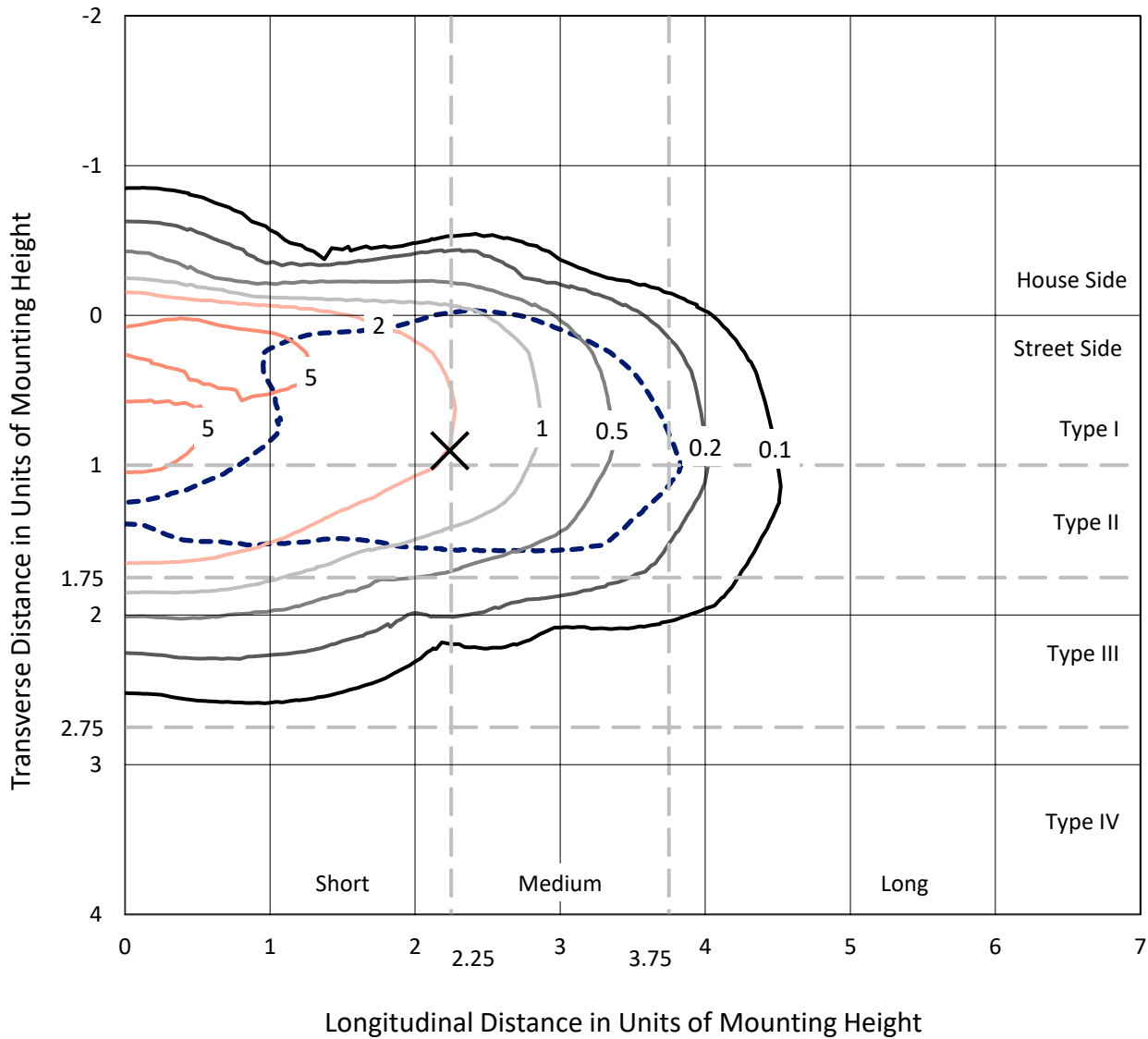
Input Watts (W): 157.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P639975
 CATALOG NUMBER: GWS-SA5C-830-U-T2-W-HSS

Iso-Footcandle Lines of Horizontal Illumination

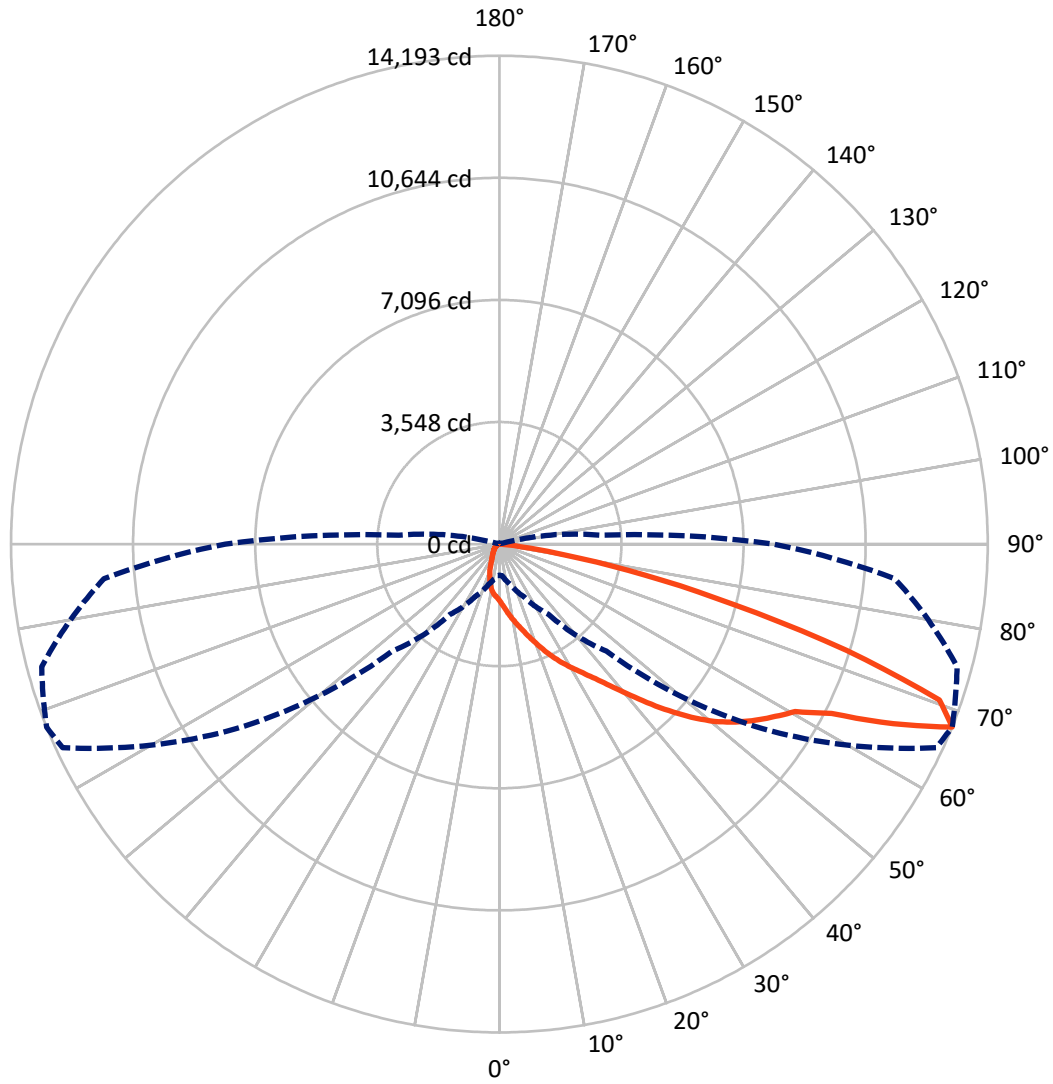
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.6 fc
 Type II - Short - N/A

REPORT NUMBER: P639975
CATALOG NUMBER: GWS-SA5C-830-U-T2-W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 68-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P639975
 CATALOG NUMBER: GWS-SA5C-830-U-T2-W-HSS

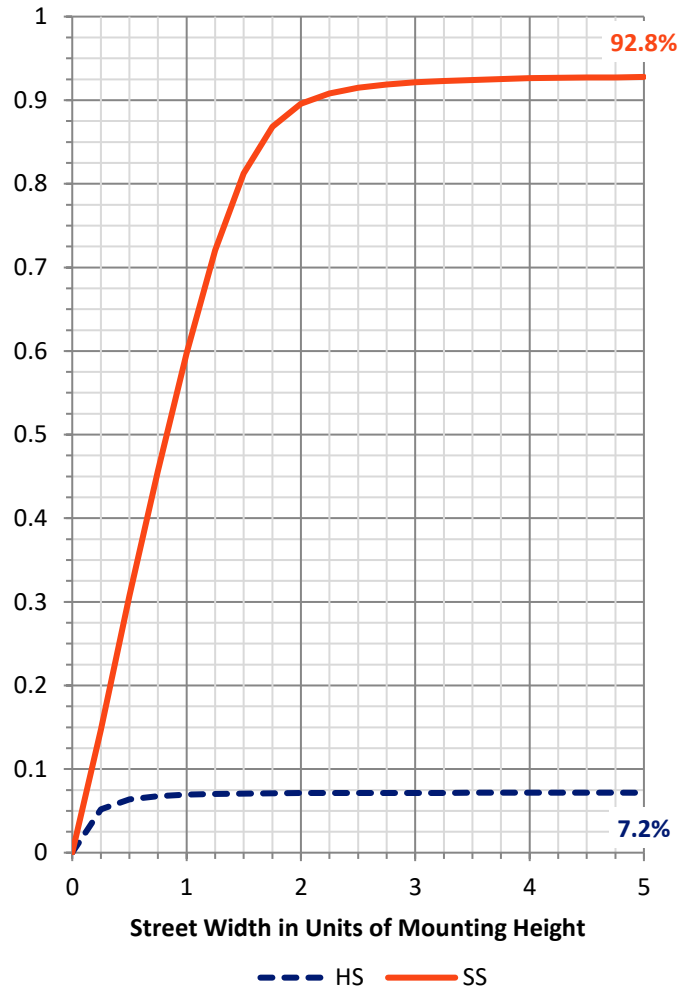
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1023.2	0.0	1023.2
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	13146.3	0.0	13146.3
	% Fixture	92.8	0.0	92.8
Total	Lumens	14169.5	0.0	14169.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.8	1.1
10°-20°	461.8	3.3
20°-30°	793.7	5.6
30°-40°	1379.9	9.7
40°-50°	2407.8	17.0
50°-60°	3631.5	25.6
60°-70°	3641.5	25.7
70°-80°	1606.6	11.3
80°-90°	85.8	0.6
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°	14169.5	100.0
0°-180°	14169.5	100.0

Coefficient of Utilization



REPORT NUMBER: P639975

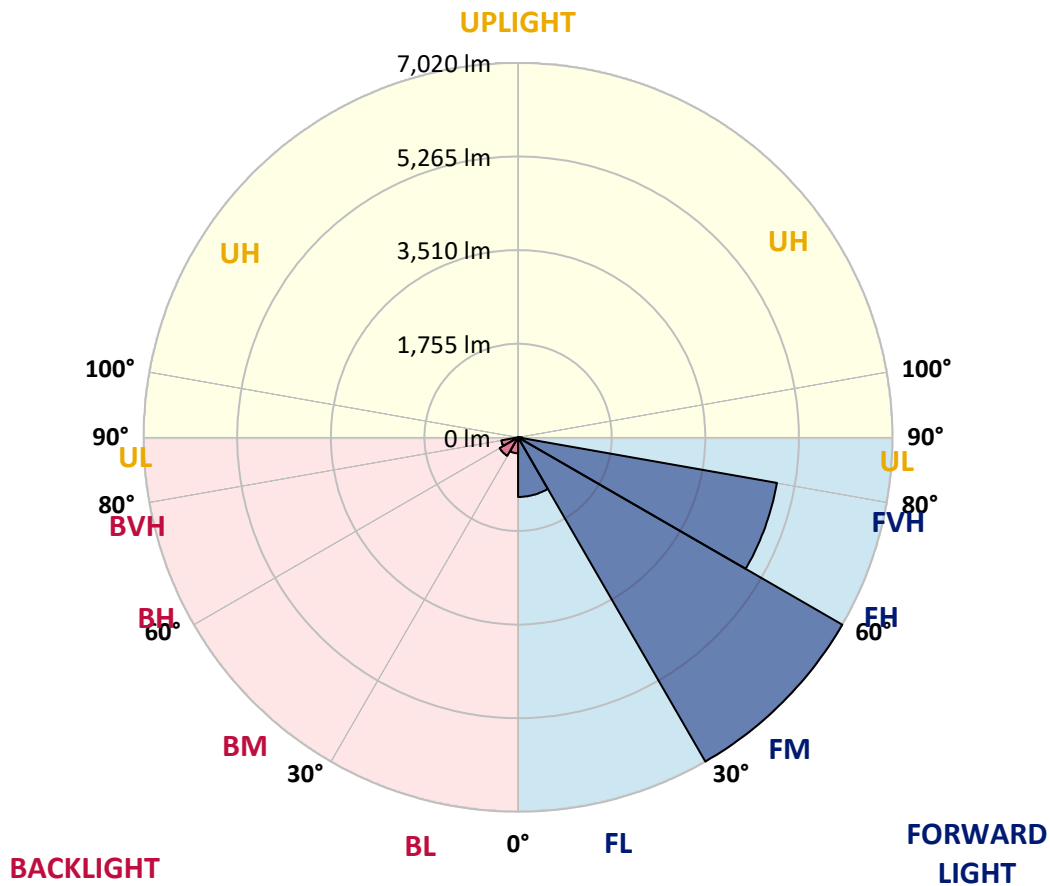
CATALOG NUMBER: GWS-SA5C-830-U-T2-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1117.0	7.9			
FM (30°-60°)	7019.5	49.5			
FH (60°-80°)	4928.8	34.8			G2/5000
FVH (80°-90°)	81.0	0.6			G1/100
BL (0°-30°)	299.3	2.1	B1/500		
BM (30°-60°)	399.7	2.8	B1/1000		
BH (60°-80°)	319.3	2.3	B1/500		G1/500
BVH (80°-90°)	4.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





REPORT NUMBER: P639975

CATALOG NUMBER: GWS-SA5C-830-U-T2-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	1649.0	1649.0	1649.0	1649.0	1649.0	1649.0	1649.0	1649.0	1649.0	1649.0	1649.0
2.5°	1920.2	1932.4	1920.2	1922.9	1887.6	1871.4	1836.1	1787.3	1775.1	1743.9	1696.4
5°	2154.8	2165.6	2153.4	2150.7	2110.0	2080.2	2021.9	1937.8	1913.4	1852.4	1758.8
7.5°	2282.2	2289.0	2293.1	2299.9	2285.0	2260.6	2207.7	2103.2	2077.5	1978.5	1847.0
10°	2295.8	2301.2	2321.6	2362.3	2392.1	2407.0	2377.2	2280.9	2240.2	2143.9	1955.4
12.5°	2257.8	2266.0	2298.5	2366.3	2449.0	2525.0	2544.0	2459.9	2423.3	2299.9	2082.9
15°	2207.7	2214.4	2259.2	2351.4	2476.2	2615.8	2694.5	2657.9	2617.2	2488.4	2223.9
17.5°	2130.4	2139.9	2202.2	2327.0	2488.4	2687.7	2857.2	2869.4	2840.9	2701.3	2379.9
20°	2087.0	2093.8	2149.4	2278.2	2480.2	2740.6	3009.1	3124.4	3093.2	2946.7	2558.9
22.5°	2123.6	2129.0	2165.6	2266.0	2453.1	2770.4	3150.1	3379.3	3361.7	3209.8	2747.4
25°	2316.2	2333.8	2312.1	2329.7	2465.3	2786.7	3264.0	3634.2	3638.3	3485.1	2942.7
27.5°	2706.7	2683.6	2632.1	2544.0	2560.2	2830.1	3361.7	3874.3	3909.5	3753.6	3116.2
30°	3104.0	3090.5	3059.3	2922.3	2808.4	2926.4	3444.4	4119.7	4175.3	4018.0	3270.8
32.5°	3550.2	3563.7	3508.1	3344.0	3150.1	3121.7	3529.8	4353.0	4457.4	4317.7	3452.5
35°	4083.1	4087.2	3977.3	3795.6	3575.9	3444.4	3683.1	4610.6	4803.2	4700.1	3695.3
37.5°	4602.5	4626.9	4567.2	4281.1	4085.8	3845.8	3936.6	4941.5	5212.7	5172.0	4000.4
40°	5062.2	5100.1	5081.2	4804.5	4548.2	4346.2	4329.9	5329.3	5707.7	5753.8	4403.1
42.5°	5428.3	5452.7	5467.6	5271.0	5044.5	4930.6	4815.4	5779.5	6292.1	6480.6	4896.7
45°	5814.8	5822.9	5854.1	5721.2	5523.2	5532.7	5389.0	6326.0	6907.8	7286.1	5463.6
47.5°	6307.0	6334.2	6319.2	6179.6	6000.6	6107.7	5981.6	6888.8	7515.3	8145.9	6044.0
50°	6906.4	6934.9	6921.3	6758.6	6559.3	6604.0	6525.4	7435.3	8101.1	8956.8	6526.7
52.5°	7215.6	7238.7	7406.8	7480.0	7375.6	7090.8	6989.1	8036.0	8596.1	9624.0	6970.2
55°	7066.4	7082.7	7448.8	7758.0	8140.4	7855.7	7455.6	8499.8	9032.7	10144.7	7299.7
57.5°	6448.1	6536.2	7033.9	7557.3	8361.5	8611.0	8212.3	9004.2	9453.1	10506.8	7623.8
60°	5180.2	5176.1	5889.4	6829.1	7930.2	8818.5	9280.9	9686.3	9874.8	10784.7	8057.7
62.5°	2862.6	2888.4	3837.7	5075.7	6731.5	8281.5	10082.3	10864.8	10836.3	11270.2	8737.1
65°	1425.2	1476.7	1992.1	2907.4	4479.1	6844.0	10220.6	12662.9	12581.5	12413.4	10140.6
67.5°	904.5	924.8	1209.6	1689.7	2489.7	4399.1	9359.5	14004.0	14192.5	13769.4	11533.3
70°	585.8	619.7	840.8	1155.4	1502.5	2267.3	6856.2	13134.8	13567.4	13620.3	10665.4
72.5°	318.7	343.1	537.0	824.5	1084.8	1133.7	3851.2	9857.2	10552.9	11553.6	8343.8
75°	181.7	199.3	294.3	560.1	796.0	690.2	1707.3	6598.6	7042.0	8257.1	5978.9
77.5°	109.8	124.8	165.4	272.6	499.0	461.1	645.5	4016.7	4298.7	4926.6	3137.9
80°	50.2	59.7	104.4	150.5	272.6	218.3	246.8	1872.7	1933.7	2021.9	1038.7
82.5°	23.1	27.1	47.5	89.5	154.6	126.1	94.9	432.6	608.9	576.3	264.4
85°	2.7	2.7	17.6	36.6	43.4	32.5	39.3	97.6	123.4	173.6	75.9
87.5°	0.0	0.0	1.4	1.4	2.7	4.1	8.1	12.2	17.6	28.5	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: P639975
 CATALOG NUMBER: GWS-SA5C-830-U-T2-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1649.0	1649.0	1649.0	1649.0	1649.0	1649.0	1649.0	1649.0	1649.0	1649.0	1649.0
2.5°	1674.7	1636.8	1602.9	1552.7	1518.8	1480.8	1455.1	1423.9	1411.7	1402.2	1388.6
5°	1712.7	1651.7	1569.0	1476.7	1400.8	1328.9	1262.5	1219.1	1181.1	1175.7	1156.7
7.5°	1775.1	1684.2	1544.6	1394.0	1265.2	1145.9	1052.3	976.4	938.4	926.2	904.5
10°	1857.8	1733.0	1507.9	1277.4	1091.6	949.2	843.5	758.0	698.4	676.7	660.4
12.5°	1950.0	1777.8	1449.6	1133.7	922.1	759.4	625.1	534.3	496.3	482.8	470.6
15°	2055.8	1819.8	1357.4	989.9	756.7	558.7	463.8	424.4	408.2	404.1	400.0
17.5°	2157.5	1847.0	1247.6	840.8	581.7	433.9	389.2	374.3	370.2	366.1	363.4
20°	2272.8	1865.9	1118.7	699.7	451.6	367.5	345.8	334.9	326.8	318.7	317.3
22.5°	2390.7	1865.9	979.1	561.4	378.3	329.5	305.1	284.8	269.9	261.7	259.0
25°	2503.3	1840.2	840.8	448.9	333.6	292.9	261.7	238.7	218.3	208.8	206.1
27.5°	2583.3	1773.7	720.1	379.7	302.4	260.4	222.4	196.6	180.4	170.9	169.5
30°	2633.5	1674.7	608.9	339.0	275.3	226.5	188.5	166.8	154.6	147.8	145.1
32.5°	2671.4	1552.7	509.9	310.5	249.5	196.6	164.1	146.5	135.6	130.2	128.8
35°	2747.4	1437.4	436.7	284.8	222.4	172.2	143.7	130.2	122.0	115.3	113.9
37.5°	2853.2	1341.1	378.3	261.7	196.6	153.2	130.2	118.0	111.2	104.4	103.1
40°	3009.1	1280.1	334.9	238.7	173.6	138.3	119.3	108.5	99.0	92.2	90.9
42.5°	3249.1	1251.6	306.5	215.6	153.2	124.8	109.8	96.3	86.8	80.0	78.7
45°	3535.2	1266.6	282.1	192.6	139.7	115.3	97.6	84.1	74.6	67.8	66.4
47.5°	3841.7	1319.4	261.7	170.9	126.1	105.8	86.8	71.9	63.7	57.0	55.6
50°	4161.7	1406.2	244.1	150.5	115.3	94.9	74.6	62.4	54.2	48.8	47.5
52.5°	4439.7	1524.2	226.5	135.6	105.8	84.1	65.1	54.2	46.1	40.7	39.3
55°	4705.5	1635.4	212.9	122.0	94.9	73.2	57.0	46.1	39.3	33.9	32.5
57.5°	4994.4	1753.4	196.6	109.8	85.4	65.1	50.2	39.3	33.9	28.5	27.1
60°	5414.7	1928.3	172.2	100.3	74.6	57.0	43.4	35.3	29.8	23.1	21.7
62.5°	6020.9	2247.0	145.1	86.8	63.7	48.8	36.6	29.8	24.4	19.0	16.3
65°	7154.6	2789.4	119.3	71.9	51.5	40.7	31.2	24.4	19.0	13.6	12.2
67.5°	7970.9	2930.4	96.3	58.3	42.0	31.2	25.8	19.0	13.6	9.5	8.1
70°	6968.8	2104.6	74.6	47.5	35.3	24.4	20.3	14.9	9.5	6.8	5.4
72.5°	5250.7	1375.0	55.6	36.6	27.1	20.3	14.9	12.2	8.1	5.4	4.1
75°	3700.7	794.7	40.7	27.1	19.0	14.9	12.2	9.5	6.8	4.1	4.1
77.5°	1897.1	328.2	28.5	19.0	13.6	9.5	8.1	5.4	5.4	4.1	2.7
80°	576.3	108.5	16.3	12.2	9.5	6.8	4.1	4.1	4.1	2.7	1.4
82.5°	131.5	35.3	9.5	9.5	6.8	5.4	4.1	1.4	1.4	0.0	0.0
85°	33.9	10.8	8.1	6.8	6.8	5.4	2.7	1.4	0.0	0.0	0.0
87.5°	12.2	6.8	6.8	6.8	5.4	4.1	2.7	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)