

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P200175

Luminaire Tested: **GAW-AF-01-LED-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200175
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAW-AF-01-LED-U-T2
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 4000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6381.1 lumens
Efficiency: N/A
Efficacy: 108.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



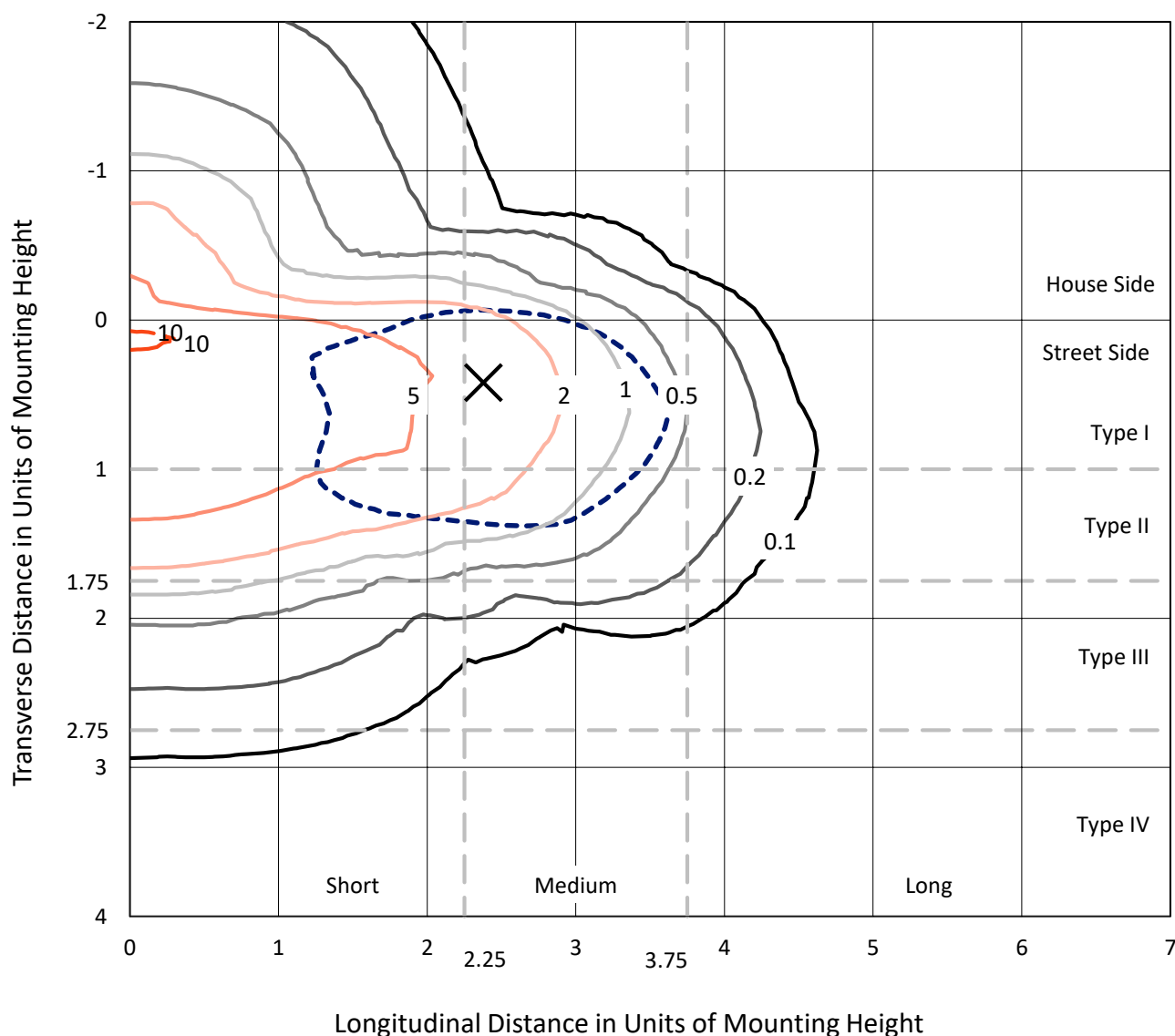
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

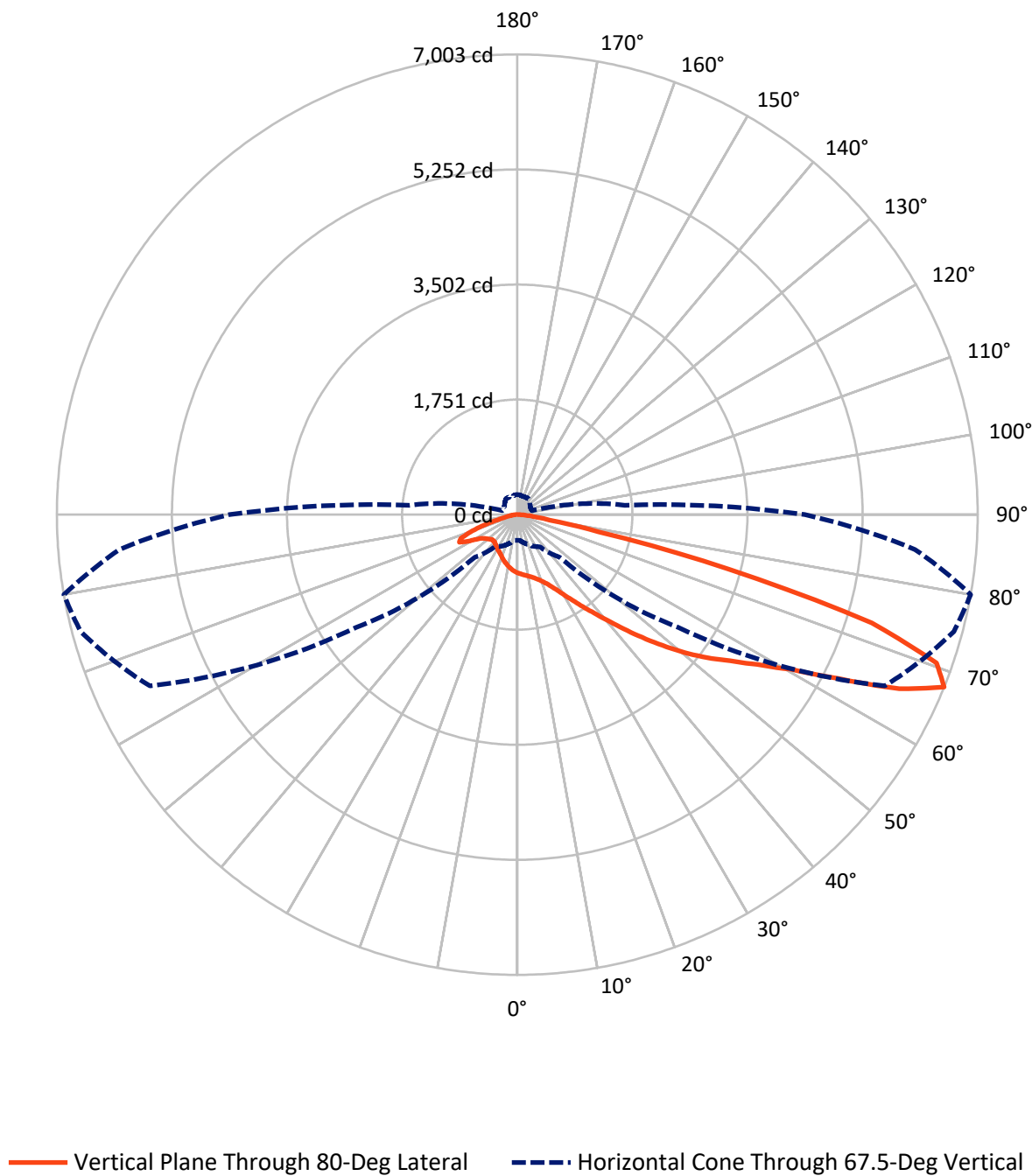


Based on 10 foot mounting height. Maximum calculated value = 10.8 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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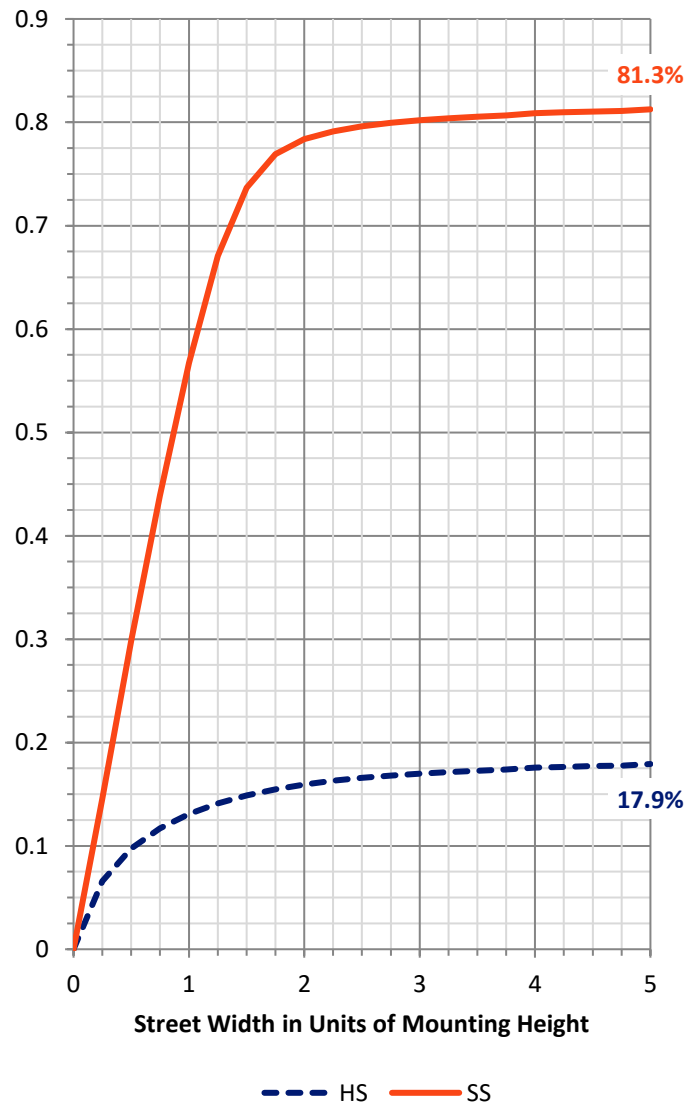
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1175.2	0.0	1175.2
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	5206.0	0.0	5206.0
	% Fixture	81.6	0.0	81.6
Total	Lumens	6381.1	0.0	6381.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.8	1.3
10°-20°	235.6	3.7
20°-30°	389.9	6.1
30°-40°	637.8	10.0
40°-50°	1029.8	16.1
50°-60°	1486.8	23.3
60°-70°	1640.8	25.7
70°-80°	756.3	11.9
80°-90°	122.3	1.9
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°	6381.1	100.0
0°-180°	6381.1	100.0

Coefficient of Utilization



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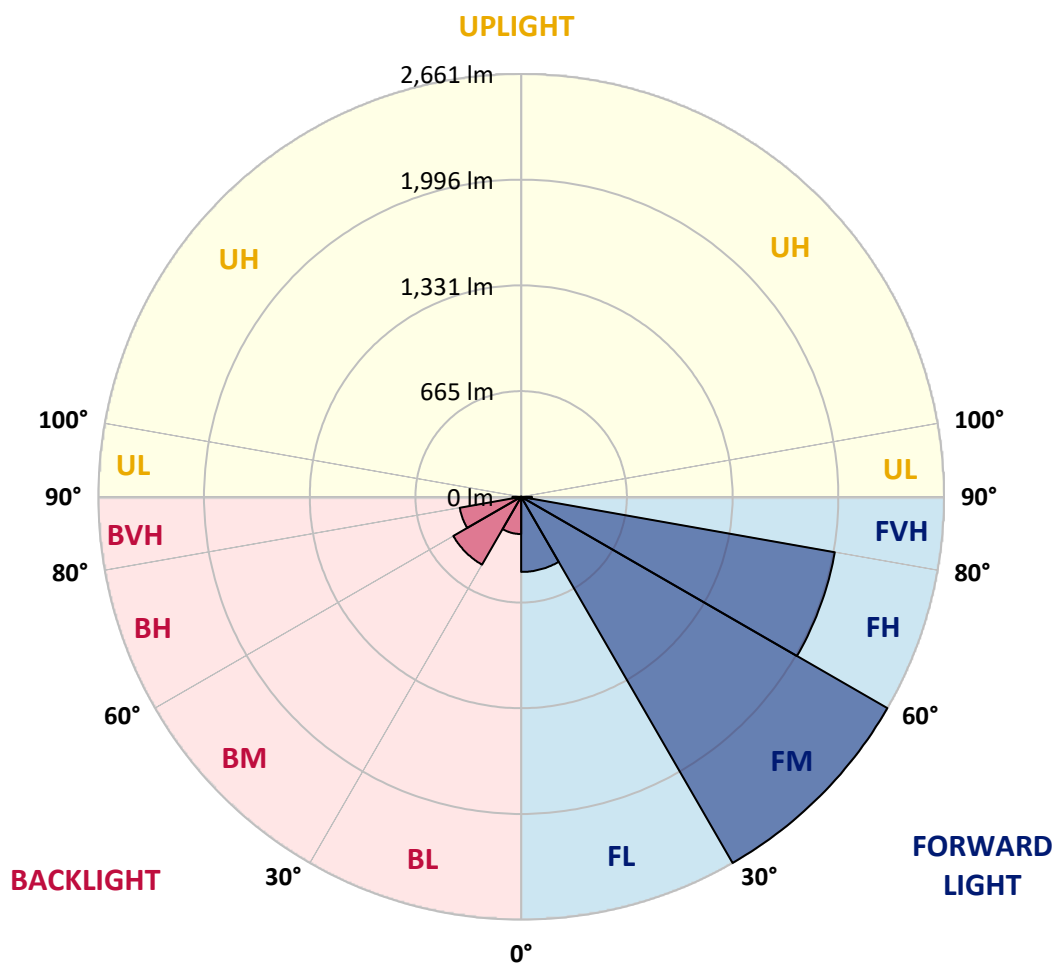
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	472.8	7.4			
FM	(30°-60°)	2661.4	41.7			
FH	(60°-80°)	2004.5	31.4			G2/5000
FVH	(80°-90°)	67.2	1.1			G1/100
BL	(0°-30°)	234.5	3.7	B1/500		
BM	(30°-60°)	493.1	7.7	B1/1000		
BH	(60°-80°)	392.6	6.2	B1/500		G1/500
BVH	(80°-90°)	55.1	0.9			G1/100
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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	886.5	886.5	886.5	886.5	886.5	886.5	886.5	886.5	886.5	886.5	886.5
2.5°	969.8	964.1	965.1	963.5	958.8	950.6	941.8	925.8	909.2	900.4	893.4
5°	1050.9	1049.2	1047.1	1042.1	1030.1	1013.1	992.1	963.8	933.3	917.3	901.9
7.5°	1111.4	1110.5	1107.7	1104.6	1092.9	1072.5	1040.8	1000.5	956.3	934.3	910.4
10°	1116.4	1118.1	1120.2	1128.7	1130.4	1119.3	1087.0	1038.3	980.2	951.9	921.4
12.5°	1073.8	1077.3	1085.7	1107.3	1130.4	1143.9	1127.2	1077.9	1008.1	973.8	935.2
15°	1017.2	1019.1	1029.5	1059.3	1100.5	1142.2	1158.0	1121.6	1044.2	1002.2	955.9
17.5°	993.0	994.0	1001.2	1021.0	1059.3	1119.0	1175.3	1168.9	1088.5	1037.3	981.4
20°	980.8	983.0	993.4	1012.8	1037.0	1089.1	1177.7	1220.2	1141.3	1081.3	1013.4
22.5°	1015.7	1014.7	1018.4	1028.2	1048.6	1080.0	1175.9	1273.0	1208.5	1137.8	1055.3
25°	1097.0	1100.5	1093.8	1082.9	1089.4	1111.4	1185.9	1330.1	1292.7	1210.5	1109.9
27.5°	1212.9	1209.4	1199.7	1173.9	1160.4	1169.8	1219.3	1391.7	1397.4	1305.9	1182.1
30°	1328.5	1325.7	1316.3	1284.8	1257.2	1249.3	1283.9	1462.4	1522.0	1420.6	1270.7
32.5°	1448.5	1445.4	1436.6	1405.2	1371.9	1353.7	1376.0	1544.0	1669.0	1557.5	1375.1
35°	1596.5	1590.6	1572.0	1528.3	1495.7	1481.5	1491.9	1646.7	1838.8	1719.7	1501.6
37.5°	1735.6	1744.7	1725.9	1665.7	1623.2	1618.2	1629.8	1772.2	2021.6	1900.9	1647.1
40°	1875.5	1877.0	1860.0	1810.7	1767.0	1759.0	1788.1	1924.2	2237.4	2117.7	1823.9
42.5°	2020.0	2023.1	1994.5	1949.0	1916.9	1918.5	1951.8	2102.3	2485.0	2373.0	2027.5
45°	2191.2	2195.9	2164.5	2104.8	2075.6	2134.3	2120.5	2302.0	2756.3	2663.4	2261.2
47.5°	2370.3	2377.4	2353.6	2297.6	2261.2	2341.9	2289.2	2523.5	3048.5	2974.6	2517.9
50°	2468.0	2478.3	2501.5	2497.5	2489.7	2476.2	2477.4	2761.0	3349.8	3298.9	2781.8
52.5°	2415.5	2415.2	2500.0	2603.0	2713.0	2721.2	2706.7	3011.5	3631.3	3615.8	3030.3
55°	2175.5	2191.8	2320.3	2519.8	2820.1	3007.7	3050.4	3298.3	3907.7	3925.6	3282.5
57.5°	1775.8	1789.3	1962.8	2240.9	2675.6	3177.9	3539.2	3715.2	4216.8	4300.4	3618.4
60°	1204.4	1220.8	1404.5	1738.5	2286.7	3083.1	4004.4	4459.0	4586.9	4777.0	4089.6
62.5°	707.8	722.5	872.4	1096.7	1610.0	2642.3	4208.6	5517.4	5174.7	5496.0	4808.4
65°	487.2	497.3	570.2	682.6	925.2	1779.6	3955.4	6248.1	6079.1	6387.0	5641.8
67.5°	392.1	390.8	448.6	525.3	595.7	917.6	2991.0	6165.5	6874.5	7003.0	6074.4
70°	322.9	321.7	361.0	424.4	476.0	516.8	1629.2	5202.9	6712.4	6764.6	5676.0
72.5°	270.2	271.4	296.6	343.7	390.5	389.2	716.0	3660.1	5280.6	5641.2	4524.7
75°	228.1	228.7	245.3	278.7	317.0	313.5	388.3	1982.9	3069.6	3320.6	2508.2
77.5°	194.2	194.8	205.4	224.0	251.3	250.1	283.4	856.7	1280.4	1264.8	857.9
80°	173.1	173.1	178.1	181.6	196.6	191.0	210.2	411.5	541.2	499.8	342.4
82.5°	135.7	136.4	167.2	165.8	154.9	147.6	147.6	242.5	286.8	265.1	200.4
85°	76.3	76.0	107.7	130.0	136.4	104.0	103.0	135.7	156.1	137.6	97.1
87.5°	32.6	33.3	49.9	57.8	77.2	64.8	63.7	70.1	79.5	68.8	44.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	886.5	886.5	886.5	886.5	886.5	886.5	886.5	886.5	886.5	886.5	886.5
2.5°	886.8	878.7	860.8	838.5	818.4	805.2	793.2	775.9	776.9	765.0	756.2
5°	886.2	869.2	827.8	778.5	731.0	696.8	671.1	647.7	642.1	631.2	624.5
7.5°	886.8	859.2	789.4	710.6	651.8	608.6	586.6	574.3	571.4	567.6	567.9
10°	889.0	850.1	747.4	647.1	585.5	557.0	551.7	555.5	559.9	561.1	561.4
12.5°	894.1	841.9	701.1	590.7	544.1	535.3	544.4	557.3	565.8	569.9	569.6
15°	905.4	835.6	656.8	546.3	521.2	525.9	542.9	561.1	573.4	579.0	579.3
17.5°	917.6	826.5	611.3	512.4	504.2	516.2	537.2	558.5	573.7	579.9	581.1
20°	933.6	815.2	563.5	486.9	488.2	501.7	521.5	542.9	559.5	564.9	567.3
22.5°	954.7	803.0	521.8	466.2	469.9	480.4	495.7	514.2	528.8	531.2	533.5
25°	983.0	789.8	488.5	447.3	448.9	454.9	465.2	476.3	486.3	483.4	485.7
27.5°	1021.0	778.5	463.7	430.0	427.3	428.5	433.8	437.3	442.6	434.8	435.7
30°	1065.6	766.2	444.5	415.0	407.1	405.0	406.2	408.1	412.1	401.5	399.9
32.5°	1117.5	751.5	426.6	401.8	390.8	386.4	387.0	392.1	407.7	401.2	397.7
35°	1177.7	734.8	407.7	387.4	379.8	373.5	372.9	388.6	435.4	431.3	428.2
37.5°	1248.4	718.1	388.9	371.0	371.6	364.7	362.5	380.4	440.8	424.7	422.6
40°	1338.3	709.3	372.9	353.7	361.6	360.7	356.3	365.4	405.6	376.3	372.6
42.5°	1449.5	710.6	361.0	335.2	349.6	359.7	352.8	353.1	367.5	345.6	342.1
45°	1586.8	725.4	352.5	320.4	336.1	358.7	351.5	346.5	347.8	336.1	334.3
47.5°	1747.0	755.9	346.5	308.2	323.3	355.3	351.2	344.6	341.8	335.5	333.9
50°	1925.1	800.2	342.1	296.6	311.6	349.6	351.5	342.7	339.6	337.1	336.1
52.5°	2100.1	850.7	335.5	286.5	302.5	342.7	352.5	340.8	337.4	335.5	334.6
55°	2295.2	913.9	325.5	278.0	295.0	333.9	352.5	338.0	334.3	334.6	334.3
57.5°	2558.7	1016.0	313.5	270.8	285.9	323.3	346.5	334.9	330.2	330.5	330.8
60°	2970.5	1195.9	299.1	263.6	274.6	310.7	338.3	328.0	323.3	324.5	324.8
62.5°	3576.2	1460.2	280.2	252.9	262.6	297.2	327.0	319.2	314.5	317.6	317.6
65°	4205.9	1693.3	257.0	239.4	250.1	282.4	312.9	308.2	303.5	310.7	310.4
67.5°	4375.2	1641.1	233.7	224.6	237.5	266.1	295.9	293.4	290.9	303.5	302.8
70°	3886.7	1317.6	212.4	209.5	223.7	248.5	277.7	277.7	276.1	285.6	283.4
72.5°	2961.1	934.3	191.9	193.5	208.0	229.3	257.9	260.1	257.6	262.3	260.4
75°	1585.2	534.7	171.5	175.9	188.5	209.8	235.9	238.1	236.5	236.2	237.2
77.5°	526.8	261.4	150.2	157.1	168.1	189.8	213.0	216.5	212.7	212.1	211.8
80°	234.7	164.3	126.6	135.7	145.5	166.8	188.8	191.6	187.5	193.2	186.0
82.5°	150.8	108.0	101.5	111.5	120.9	143.9	164.6	165.2	161.5	187.5	159.9
85°	73.2	66.9	76.3	85.4	93.6	113.1	136.4	136.7	127.3	115.9	111.8
87.5°	36.4	39.0	50.9	59.0	63.1	77.6	99.2	97.4	93.3	84.8	78.3
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)