

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: STREETWORKS

Report Number: P386147

Luminaire Tested: GAW-SA1D-730-U-T3

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P386147
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: GAW-SA1D-730-U-T3
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7548 lumens
Efficiency: N/A
Efficacy: 112.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

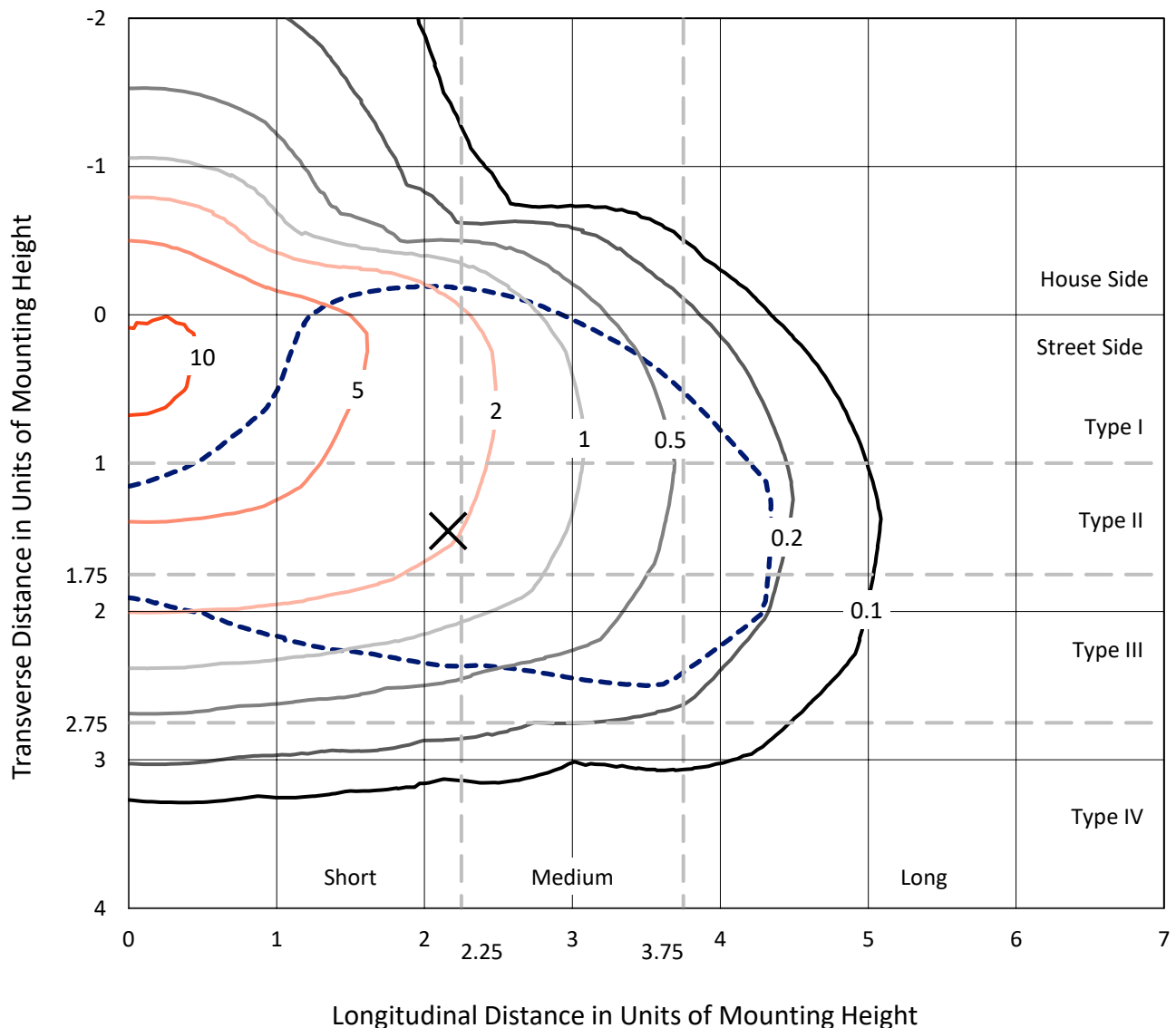
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

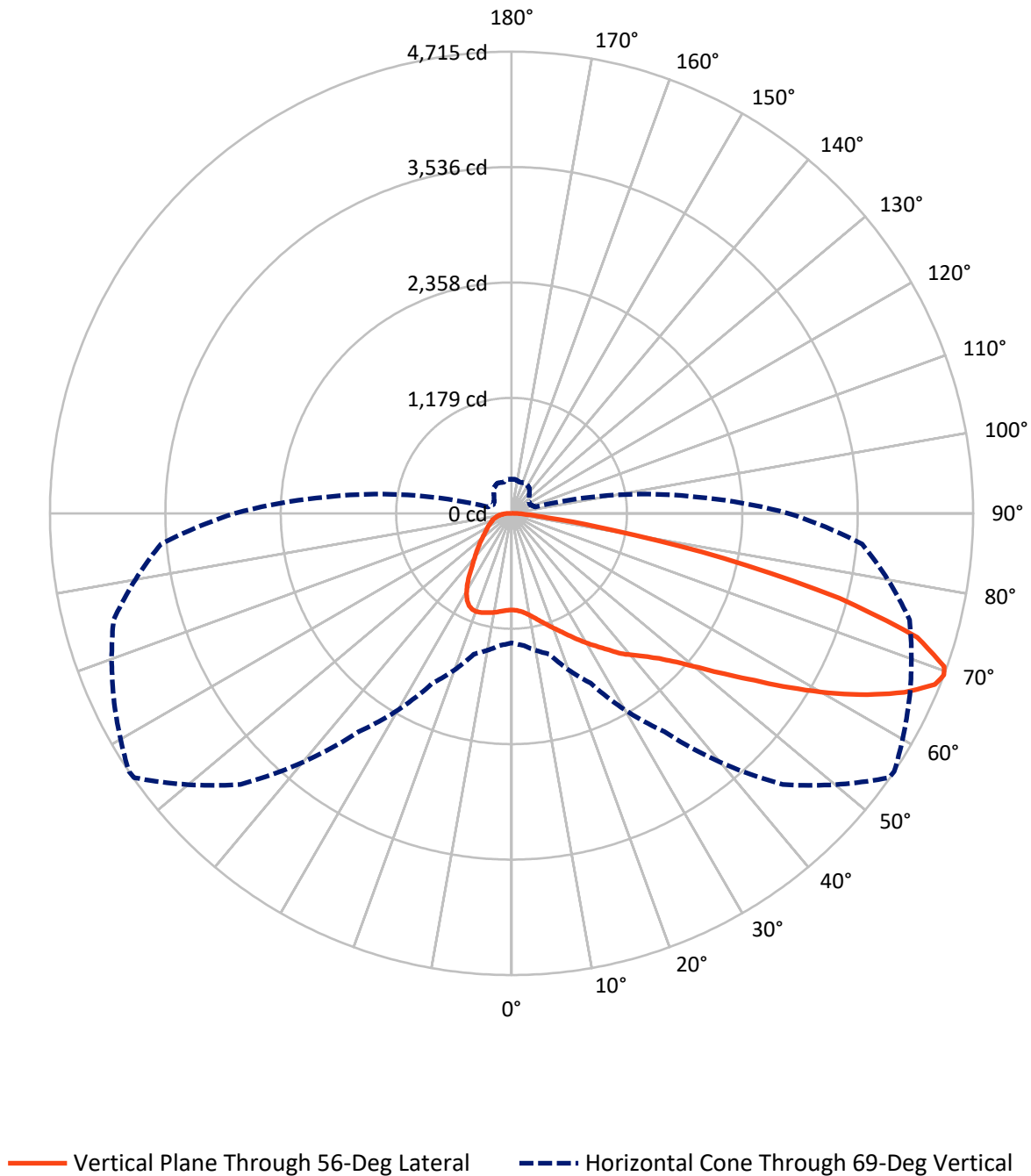
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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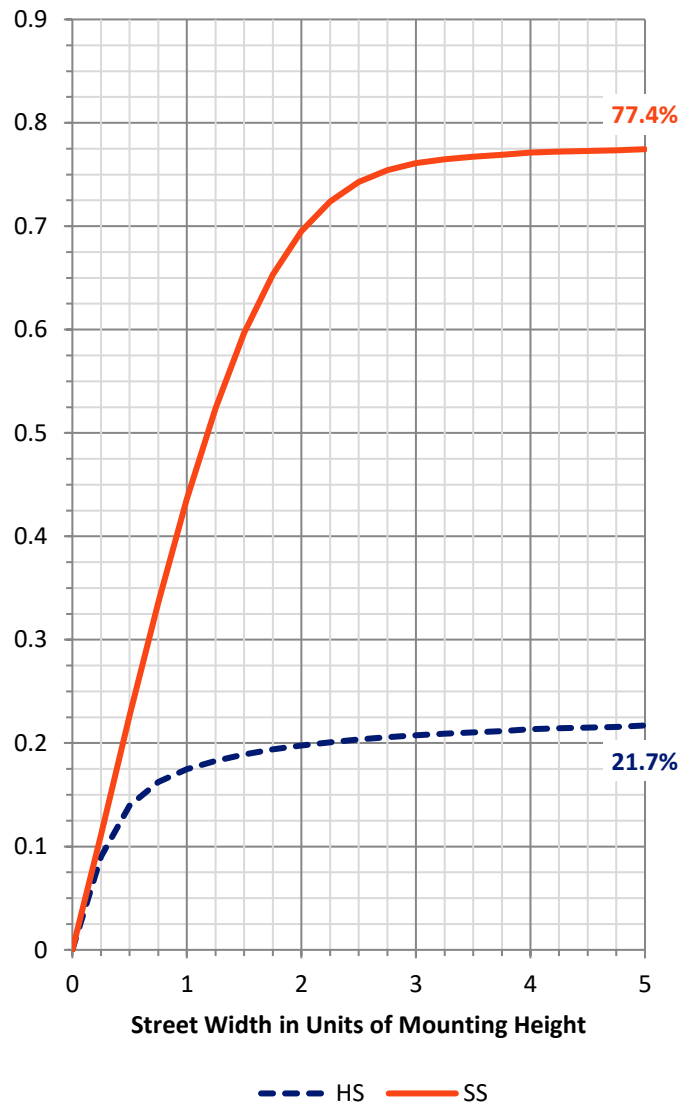
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1680.9	0.0	1680.9
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	5867.1	0.0	5867.1
	% Fixture	77.7	0.0	77.7
Total	Lumens	7548.0	0.0	7548.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.9	1.3
10°-20°	311.7	4.1
20°-30°	544.0	7.2
30°-40°	781.5	10.4
40°-50°	1081.5	14.3
50°-60°	1584.6	21.0
60°-70°	1931.9	25.6
70°-80°	1068.1	14.2
80°-90°	147.9	2.0
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°	7548.0	100.0
0°-180°	7548.0	100.0

Coefficient of Utilization



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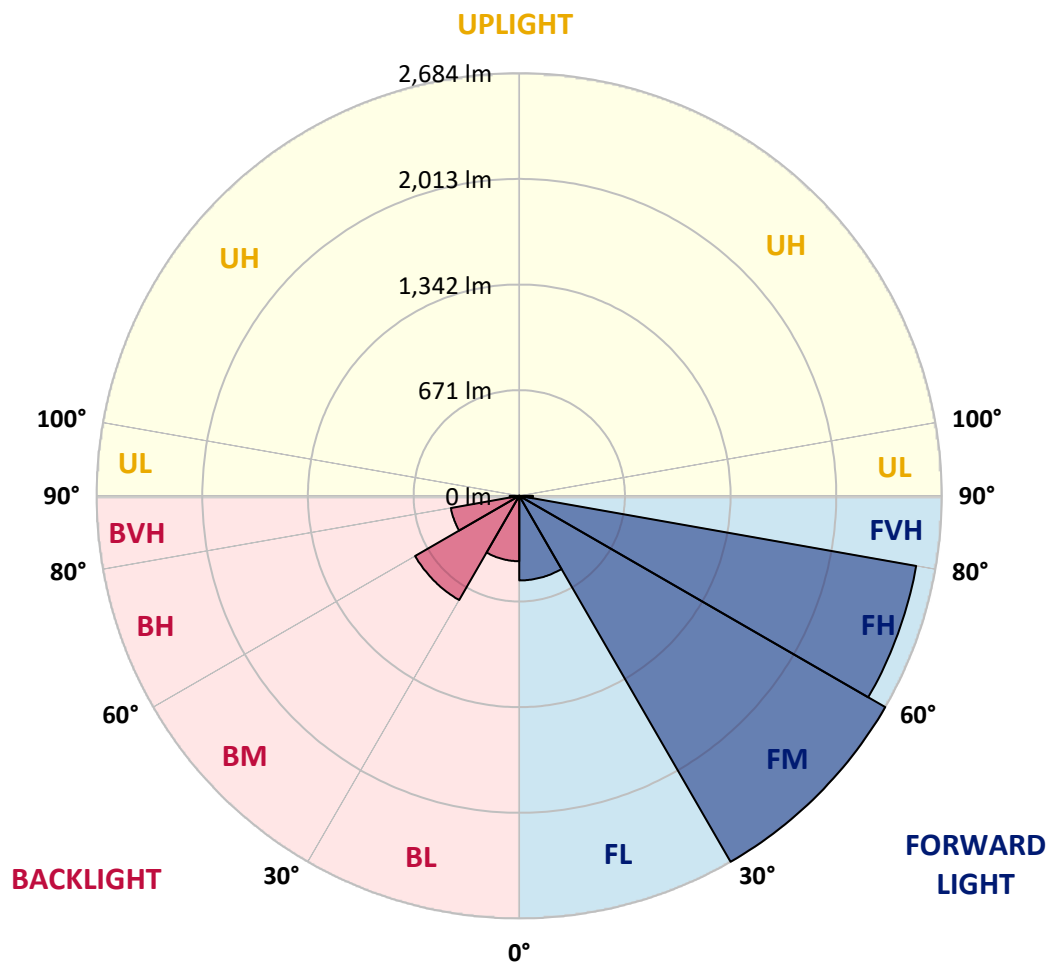
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	537.2	7.1			
FM	(30°-60°)	2683.6	35.6			
FH	(60°-80°)	2559.2	33.9			G2/5000
FVH	(80°-90°)	87.1	1.2			G1/100
BL	(0°-30°)	415.4	5.5	B1/500		
BM	(30°-60°)	763.9	10.1	B1/1000		
BH	(60°-80°)	440.8	5.8	B1/500		G1/500
BVH	(80°-90°)	60.8	0.8			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	986.8	986.8	986.8	986.8	986.8	986.8	986.8	986.8	986.8	986.8	986.8
2.5°	993.0	994.1	993.3	995.4	993.0	994.6	993.3	993.3	992.5	990.2	987.6
5°	1008.6	1010.7	1009.4	1011.5	1008.6	1009.1	1006.8	1006.8	1004.5	999.5	994.3
7.5°	1033.1	1035.4	1034.4	1036.5	1032.6	1032.6	1029.4	1029.2	1024.5	1016.4	1010.4
10°	1062.2	1065.3	1064.3	1067.4	1064.3	1065.3	1062.2	1062.2	1056.0	1044.5	1037.0
12.5°	1104.6	1108.5	1105.6	1105.4	1104.1	1106.1	1103.5	1103.0	1097.3	1081.7	1071.3
15°	1161.3	1165.4	1159.4	1158.9	1151.6	1150.9	1150.9	1150.1	1146.4	1127.7	1110.6
17.5°	1226.5	1227.8	1222.6	1214.3	1204.9	1199.0	1198.2	1200.3	1200.3	1178.4	1151.1
20°	1290.5	1292.8	1288.7	1279.3	1267.4	1258.5	1252.3	1256.4	1256.2	1230.2	1191.4
22.5°	1360.2	1365.6	1359.4	1347.4	1333.4	1323.5	1312.6	1316.2	1316.5	1284.5	1230.9
25°	1450.4	1445.5	1441.6	1424.7	1404.6	1394.5	1384.4	1388.0	1387.0	1343.0	1271.8
27.5°	1530.2	1531.3	1526.1	1508.1	1485.0	1462.6	1462.1	1464.4	1460.5	1403.9	1310.3
30°	1623.1	1623.6	1616.3	1600.2	1575.0	1546.1	1539.3	1543.2	1534.9	1461.6	1350.8
32.5°	1715.4	1718.0	1709.9	1690.4	1670.1	1635.0	1621.5	1624.1	1603.3	1520.6	1392.7
35°	1796.2	1799.9	1797.3	1784.3	1762.2	1732.0	1715.9	1714.3	1688.6	1592.9	1448.1
37.5°	1878.7	1882.0	1879.2	1868.3	1859.4	1827.4	1818.9	1818.9	1774.1	1666.7	1518.5
40°	1963.4	1968.6	1965.3	1950.2	1942.6	1928.1	1907.5	1902.6	1854.2	1755.4	1633.5
42.5°	2042.2	2049.0	2062.5	2053.7	2038.3	2040.4	1999.1	1996.5	1961.1	1886.5	1777.8
45°	2154.0	2163.9	2186.8	2180.0	2176.9	2165.5	2116.3	2114.0	2100.5	2062.8	1956.9
47.5°	2276.0	2289.5	2330.8	2332.1	2365.7	2344.1	2277.3	2269.2	2272.3	2273.9	2175.6
50°	2388.3	2403.1	2471.0	2503.0	2582.0	2586.7	2479.8	2472.6	2484.8	2520.7	2430.4
52.5°	2478.0	2496.7	2581.5	2680.3	2815.8	2854.3	2729.2	2723.7	2732.8	2794.7	2718.5
55°	2543.8	2564.1	2656.4	2836.3	3052.7	3120.5	3016.3	3011.1	3016.8	3095.6	3031.9
57.5°	2559.1	2564.1	2698.0	2941.4	3252.6	3415.7	3367.6	3357.2	3329.1	3397.7	3377.7
60°	2487.1	2506.9	2663.7	2978.3	3407.3	3706.6	3734.7	3721.7	3642.9	3699.1	3683.0
62.5°	2341.0	2376.4	2535.5	2922.1	3467.9	3944.3	4094.8	4079.2	3943.5	3979.9	3902.4
65°	2102.3	2117.4	2284.6	2728.4	3391.0	4096.4	4416.0	4408.2	4237.3	4180.4	3943.0
67.5°	1675.3	1703.7	1845.6	2323.6	3076.1	4078.5	4664.3	4663.5	4429.2	4254.8	3799.2
69°	1323.5	1352.9	1488.1	1914.0	2721.9	3914.4	4705.9	4715.0	4483.3	4209.5	3593.8
70°	1055.2	1089.2	1182.1	1612.1	2407.6	3698.0	4671.3	4687.7	4472.9	4134.9	3404.2
72.5°	449.1	476.6	542.7	831.0	1467.3	2761.4	4271.1	4333.0	4231.9	3784.4	2813.4
75°	196.1	204.6	234.5	338.8	651.4	1502.9	3346.0	3460.4	3618.5	3198.8	2095.8
77.5°	143.5	147.2	163.6	198.9	292.3	567.6	2151.7	2218.3	2609.6	2327.7	1285.6
80°	111.0	113.6	126.4	146.1	190.9	229.6	981.3	1038.5	1467.3	1195.6	535.4
82.5°	88.4	90.2	99.1	107.6	131.8	139.1	325.8	361.4	541.6	330.2	141.7
85°	82.2	84.2	87.4	78.5	84.5	81.6	140.9	147.4	163.6	129.8	59.3
87.5°	37.2	43.9	86.6	61.1	45.0	35.9	57.7	60.3	67.9	68.1	26.3
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°	986.8	986.8	986.8	986.8	986.8	986.8	986.8	986.8	986.8	986.8	986.8
2.5°	989.1	988.3	989.6	986.5	990.4	990.2	988.9	989.4	992.0	991.7	992.0
5°	995.1	994.6	996.1	993.8	998.5	1000.0	1000.3	1002.6	1005.5	1006.3	1006.3
7.5°	1010.2	1010.2	1011.0	1007.8	1011.0	1010.7	1009.4	1011.7	1014.6	1014.9	1014.6
10°	1036.2	1036.5	1035.2	1027.1	1024.5	1017.5	1011.0	1011.2	1014.9	1017.7	1018.5
12.5°	1069.0	1067.9	1062.2	1047.4	1036.5	1022.2	1015.4	1015.1	1018.8	1021.1	1021.9
15°	1106.4	1103.5	1088.7	1064.5	1045.3	1031.3	1020.3	1017.7	1015.6	1013.0	1013.3
17.5°	1141.8	1135.3	1110.6	1077.0	1056.7	1038.0	1017.0	1000.0	988.3	981.6	979.5
20°	1177.6	1164.9	1129.3	1088.7	1063.0	1028.9	988.3	954.0	932.7	922.8	921.0
22.5°	1210.4	1189.9	1146.7	1100.9	1058.0	998.2	934.5	884.6	855.0	841.7	842.7
25°	1242.4	1213.8	1164.9	1109.5	1033.1	944.1	859.6	798.3	763.9	749.1	748.6
27.5°	1270.5	1238.0	1184.7	1102.5	986.5	867.2	771.0	711.2	682.6	669.8	667.7
30°	1302.7	1268.4	1210.9	1075.7	918.4	778.2	684.4	642.3	622.0	609.2	606.9
32.5°	1342.0	1309.7	1232.5	1027.1	831.3	685.4	616.8	587.4	568.9	554.6	552.0
35°	1399.2	1364.3	1238.0	957.4	735.6	612.1	567.1	536.9	512.0	493.5	491.7
37.5°	1471.0	1432.7	1225.5	867.2	642.8	564.5	525.8	488.6	456.1	430.1	425.9
40°	1574.4	1516.7	1190.9	763.2	574.4	527.8	485.5	443.1	402.8	372.4	366.4
42.5°	1698.7	1615.3	1137.9	659.7	524.2	490.7	445.4	392.9	354.4	332.8	329.7
45°	1856.8	1717.7	1064.3	569.2	474.8	453.5	402.3	353.9	330.0	314.1	311.5
47.5°	2037.3	1832.6	987.0	495.6	432.9	418.6	367.7	336.5	317.5	305.0	302.7
50°	2259.1	1962.4	905.1	435.3	390.8	376.8	351.3	326.8	311.8	302.1	299.8
52.5°	2509.2	2108.8	846.1	387.7	356.0	345.8	342.7	321.6	309.4	302.1	299.8
55°	2778.6	2257.8	782.4	347.7	325.8	328.7	337.0	322.2	313.8	305.0	301.6
57.5°	3048.2	2411.7	711.4	313.8	301.9	315.9	333.1	323.2	316.2	307.6	304.5
60°	3261.5	2509.2	601.4	285.5	282.9	301.9	323.7	315.4	306.3	306.6	306.0
62.5°	3361.1	2504.0	480.0	260.3	263.9	282.9	308.6	303.2	295.6	305.8	306.6
65°	3305.2	2379.2	373.7	237.4	243.6	263.1	293.0	297.2	299.8	319.3	321.9
67.5°	3070.6	2136.3	289.4	217.4	225.2	249.6	294.6	323.7	327.1	347.7	347.4
69°	2828.0	1908.6	251.4	207.0	216.1	253.0	314.9	340.6	327.9	349.7	346.6
70°	2624.7	1728.4	231.2	200.0	211.9	259.0	328.4	340.4	324.0	342.7	337.5
72.5°	2021.4	1243.4	196.1	187.0	197.9	247.8	332.3	332.8	314.9	318.5	309.7
75°	1386.4	785.8	171.1	169.3	176.6	223.4	319.8	318.0	291.2	286.0	278.7
77.5°	764.5	399.1	145.4	152.4	157.3	197.9	290.7	288.1	266.0	255.1	252.5
80°	294.9	174.7	122.7	135.5	138.6	171.4	254.8	252.5	234.0	220.0	216.1
82.5°	111.3	91.5	101.4	117.3	116.2	141.5	215.8	214.5	196.6	176.0	169.8
85°	51.5	54.9	80.3	96.7	89.2	104.8	172.7	175.0	153.2	128.7	128.7
87.5°	21.8	30.7	56.9	73.1	60.1	70.7	126.6	120.9	111.0	77.0	72.3
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)