

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: P386108

Luminaire Tested: GAW-SA1D-727-U-SL4-HSS

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P386108
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: GAW-SA1D-727-U-SL4-HSS
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5624 lumens
Efficiency: N/A
Efficacy: 83.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

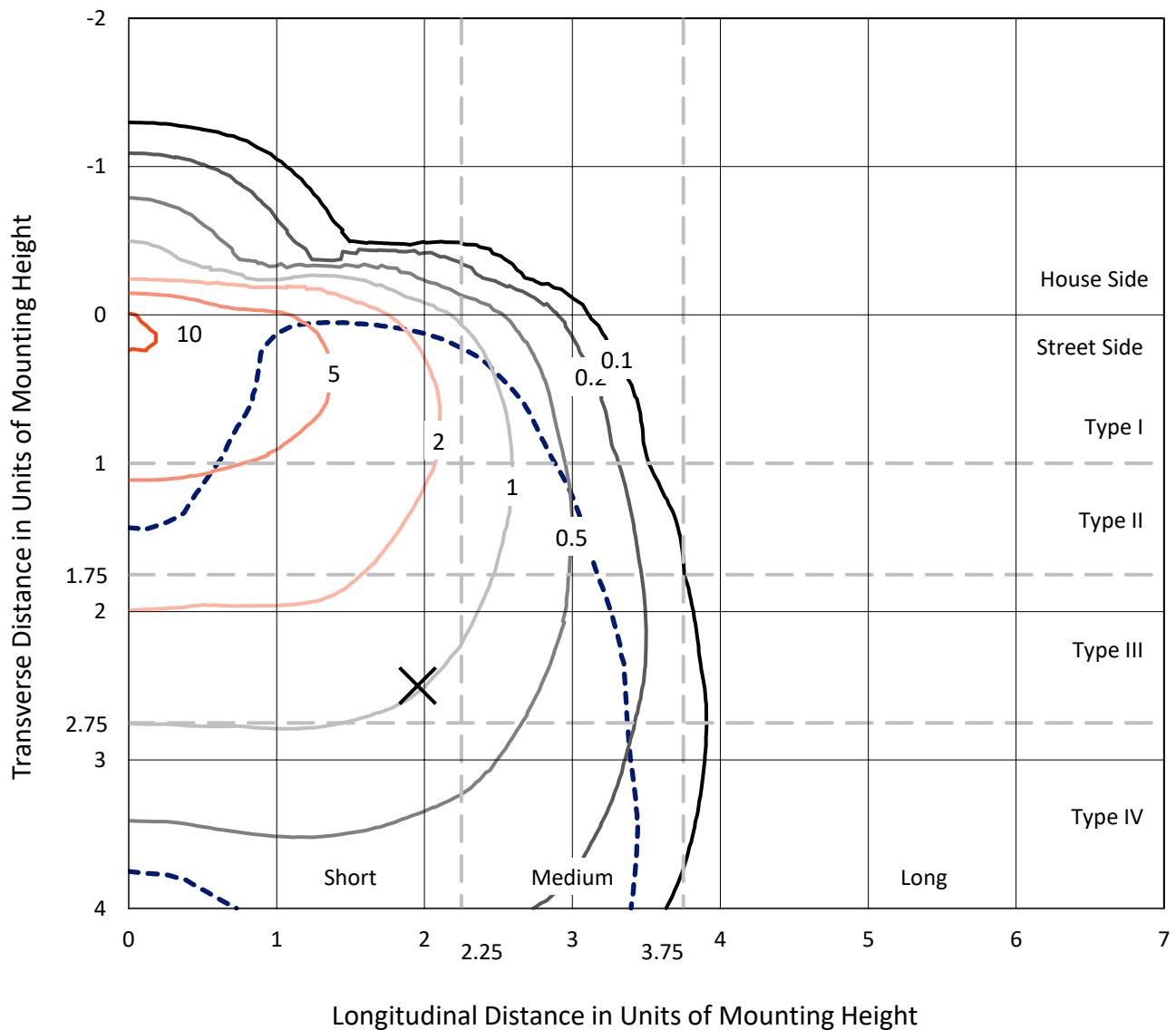
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

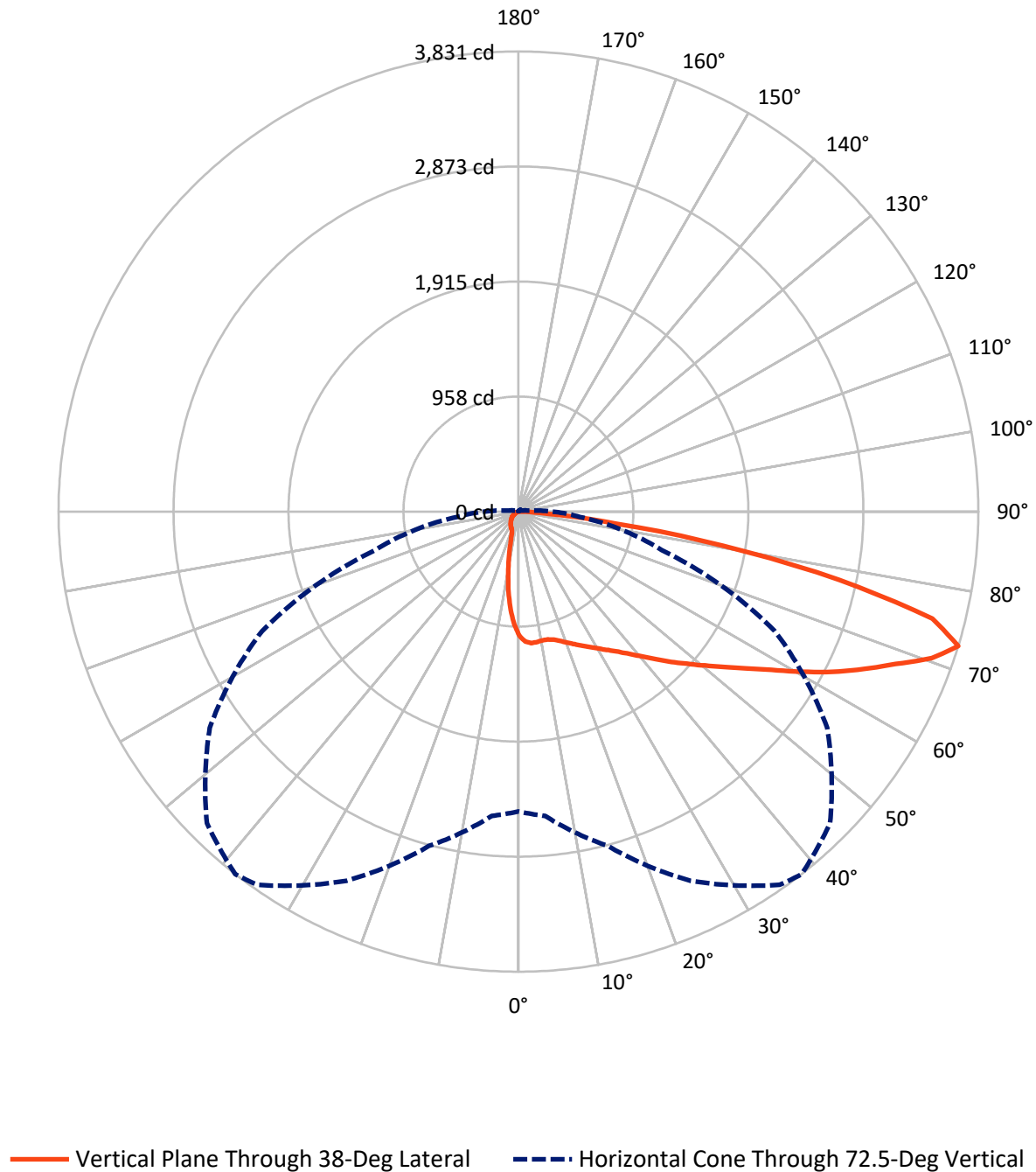
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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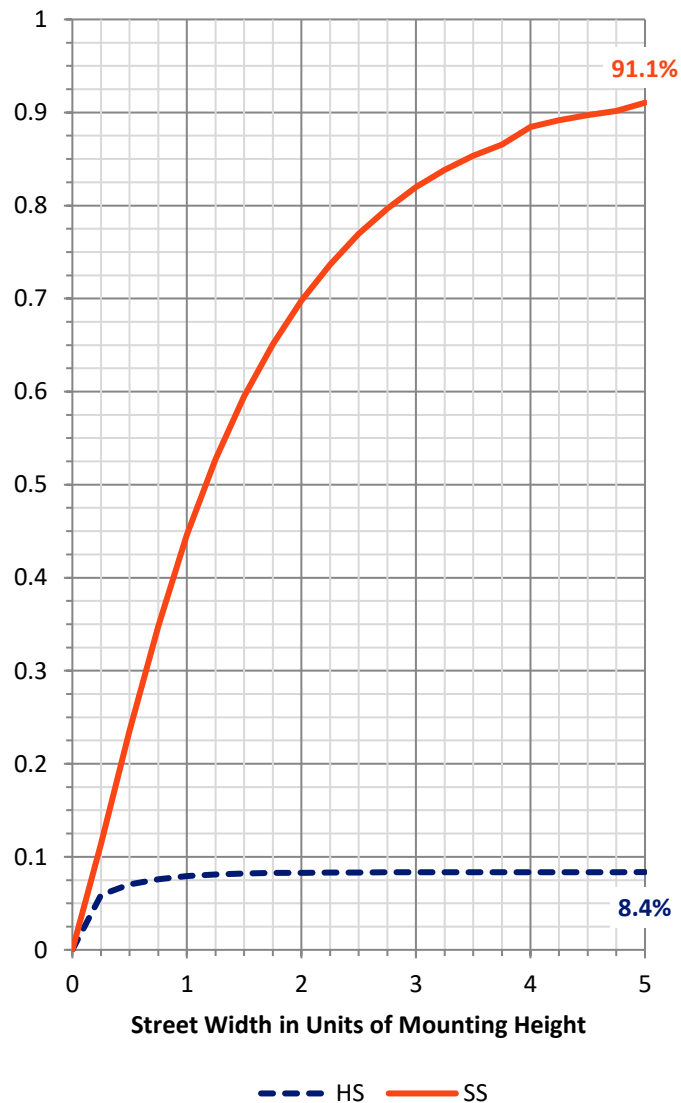
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	473.3	0.0	473.3
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	5150.7	0.0	5150.7
	% Fixture	91.6	0.0	91.6
Total	Lumens	5624.0	0.0	5624.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.1	1.6
10°-20°	215.5	3.8
20°-30°	342.8	6.1
30°-40°	515.3	9.2
40°-50°	786.2	14.0
50°-60°	1111.1	19.8
60°-70°	1393.7	24.8
70°-80°	1042.1	18.5
80°-90°	129.2	2.3
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°	5624.0	100.0
0°-180°	5624.0	100.0

Coefficient of Utilization



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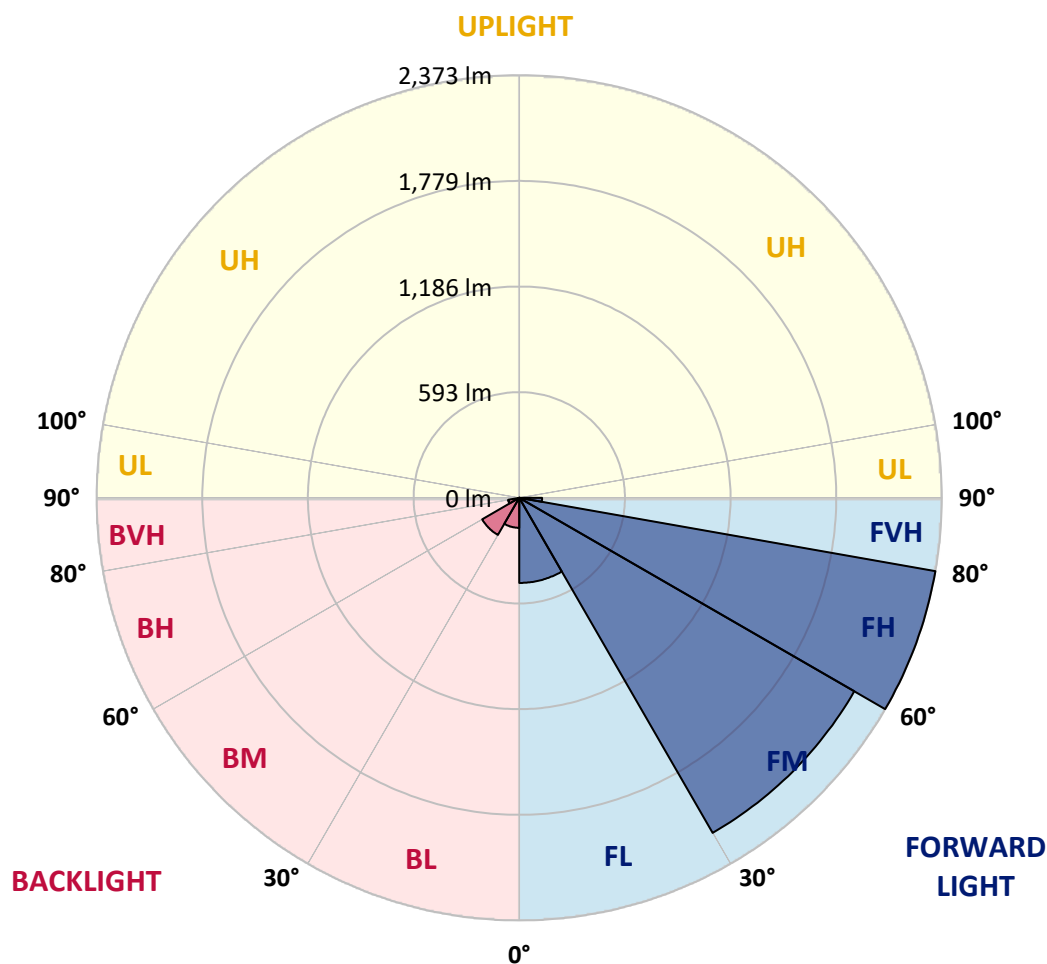
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	477.9	8.5			
FM	(30°-60°)	2172.2	38.6			
FH	(60°-80°)	2372.6	42.2			G2/5000
FVH	(80°-90°)	128.0	2.3			G2/225
BL	(0°-30°)	168.5	3.0	B1/500		
BM	(30°-60°)	240.3	4.3	B1/1000		
BH	(60°-80°)	63.2	1.1	B0/110		G0/110
BVH	(80°-90°)	1.2	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	1034.2	1034.2	1034.2	1034.2	1034.2	1034.2	1034.2	1034.2	1034.2	1034.2	1034.2
2.5°	1097.8	1098.0	1095.4	1091.2	1085.9	1083.1	1078.4	1070.9	1063.0	1048.7	1033.3
5°	1120.2	1120.2	1116.9	1111.3	1102.7	1100.1	1091.2	1079.3	1063.0	1039.8	1013.9
7.5°	1117.9	1118.3	1113.9	1108.0	1099.4	1097.1	1086.3	1073.0	1052.7	1024.7	991.5
10°	1105.7	1106.9	1103.4	1100.6	1092.6	1090.1	1080.0	1066.7	1046.4	1016.5	978.4
12.5°	1093.3	1094.5	1095.7	1098.2	1093.3	1092.4	1084.5	1073.2	1053.9	1022.8	979.8
15°	1085.4	1087.7	1096.1	1106.2	1107.3	1106.4	1101.3	1090.8	1071.1	1038.9	989.9
17.5°	1085.4	1089.1	1106.6	1125.8	1132.6	1133.3	1128.8	1114.1	1090.8	1056.2	999.2
20°	1094.5	1099.6	1127.0	1154.1	1165.3	1165.3	1156.6	1136.1	1108.7	1071.8	1005.5
22.5°	1117.9	1124.6	1159.0	1190.3	1202.2	1199.6	1187.9	1158.0	1127.4	1089.6	1013.4
25°	1163.9	1169.0	1204.7	1236.3	1243.5	1237.7	1223.0	1184.7	1151.3	1113.6	1027.9
27.5°	1223.2	1223.9	1260.8	1287.4	1283.0	1279.0	1260.6	1218.1	1185.6	1148.0	1052.9
30°	1288.4	1288.4	1320.8	1341.1	1327.6	1324.3	1305.9	1258.5	1229.5	1194.7	1088.4
32.5°	1351.4	1354.2	1380.6	1393.5	1378.3	1375.0	1357.0	1309.6	1287.9	1265.9	1143.8
35°	1412.4	1414.5	1439.5	1446.5	1432.0	1432.9	1420.1	1379.9	1371.7	1368.9	1227.2
37.5°	1471.5	1471.9	1497.4	1501.8	1494.6	1502.5	1503.7	1468.2	1483.4	1506.0	1344.6
40°	1525.4	1525.9	1551.1	1562.6	1574.9	1585.2	1594.3	1575.4	1625.6	1678.2	1484.6
42.5°	1568.6	1573.5	1605.5	1627.3	1660.0	1679.6	1704.3	1703.4	1795.0	1873.9	1653.7
45°	1606.7	1615.1	1659.7	1697.8	1753.9	1785.2	1823.9	1854.3	1985.6	2091.8	1824.9
47.5°	1656.9	1664.9	1715.8	1778.1	1852.9	1894.0	1958.2	2023.9	2195.1	2305.8	1992.1
50°	1727.7	1724.2	1774.4	1863.9	1959.9	2013.8	2105.4	2203.7	2402.9	2492.2	2090.4
52.5°	1803.1	1801.7	1838.9	1957.1	2086.0	2149.1	2270.0	2389.6	2601.7	2620.6	2135.5
55°	1896.6	1886.5	1917.8	2063.3	2235.7	2303.4	2445.9	2573.7	2760.1	2693.0	2158.2
57.5°	1994.4	1977.8	2007.7	2181.8	2404.6	2484.7	2640.7	2753.1	2865.4	2742.5	2157.9
60°	2095.6	2075.9	2111.4	2329.8	2614.3	2707.0	2851.9	2874.3	2963.7	2767.5	2142.0
62.5°	2180.1	2168.4	2221.2	2488.2	2848.6	2939.7	3011.4	2984.5	3046.6	2786.9	2104.9
65°	2269.6	2270.3	2355.5	2672.9	3097.6	3159.0	3165.1	3127.5	3116.0	2783.0	1979.2
67.5°	2390.6	2401.8	2544.0	2923.8	3339.8	3387.2	3386.7	3282.3	3166.7	2625.1	1700.6
70°	2518.6	2544.9	2761.2	3210.8	3604.2	3652.3	3627.5	3380.9	2981.7	2122.7	1203.6
72.5°	2497.1	2542.8	2882.0	3391.9	3794.1	3830.7	3669.8	3138.7	2356.7	1233.7	512.4
75°	1926.5	1979.5	2642.6	3212.5	3594.8	3561.9	3153.2	2442.4	1287.9	344.3	115.4
77.5°	1017.7	1045.9	1745.7	2447.3	2803.0	2734.1	2221.2	1354.9	392.6	85.3	51.9
80°	533.0	539.5	760.7	1388.6	1730.0	1730.5	1316.4	595.1	161.9	43.7	34.8
82.5°	285.4	291.0	402.0	641.6	906.5	821.7	504.0	327.5	94.1	24.8	33.4
85°	68.7	69.8	228.0	293.1	356.4	254.6	149.7	274.9	25.5	14.5	27.1
87.5°	26.4	26.9	84.6	126.8	90.9	58.9	70.1	102.5	3.3	5.6	4.2
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°	1034.2	1034.2	1034.2	1034.2	1034.2	1034.2	1034.2	1034.2	1034.2	1034.2	1034.2
2.5°	1024.0	1017.9	1002.9	984.0	967.2	955.1	936.8	924.9	917.0	916.8	913.7
5°	998.0	985.7	953.4	915.1	880.3	849.0	812.1	782.9	761.2	757.7	750.2
7.5°	970.2	949.9	900.4	840.6	782.2	722.9	654.0	611.2	574.6	557.1	555.2
10°	953.2	924.7	854.4	768.0	676.4	579.9	489.8	427.4	382.3	369.5	359.9
12.5°	949.7	912.1	818.9	699.8	569.0	441.4	341.7	275.4	239.4	228.0	224.9
15°	953.2	906.2	789.0	632.3	460.1	313.2	229.4	190.8	177.3	174.0	173.8
17.5°	955.3	899.2	755.1	557.3	354.6	223.8	175.6	164.4	162.3	162.1	162.6
20°	955.1	888.5	714.7	473.7	263.7	175.9	158.8	156.5	156.0	156.3	156.0
22.5°	953.4	875.9	670.3	387.5	199.2	157.2	151.6	150.2	150.0	150.0	150.0
25°	956.5	865.8	621.5	305.0	164.2	148.5	145.0	143.9	143.6	143.6	143.2
27.5°	967.4	860.2	568.0	234.7	148.3	140.8	138.0	137.8	137.1	136.9	137.3
30°	985.2	860.2	509.4	182.6	138.7	132.9	130.8	130.3	130.1	129.9	130.1
32.5°	1016.5	866.8	445.4	151.8	129.6	124.0	122.6	123.3	122.6	122.6	122.6
35°	1073.0	886.4	378.4	132.4	120.1	115.4	114.0	114.9	114.4	114.4	114.2
37.5°	1155.5	922.8	310.9	120.8	111.6	106.7	104.9	106.3	105.8	105.8	105.6
40°	1255.9	975.8	246.6	111.9	103.5	98.3	96.7	97.4	96.2	96.2	96.7
42.5°	1379.9	1043.1	190.6	103.2	95.3	90.4	89.5	88.8	86.7	85.5	85.7
45°	1517.7	1113.2	148.5	94.8	87.6	83.6	82.2	80.3	76.8	74.5	74.7
47.5°	1640.8	1167.1	120.8	86.7	80.6	77.5	75.4	71.9	66.8	64.0	64.2
50°	1705.5	1175.3	102.8	78.5	74.0	71.0	68.0	62.6	56.5	53.5	53.3
52.5°	1722.1	1137.0	89.5	71.0	67.5	64.0	60.0	52.8	46.0	42.7	42.3
55°	1728.2	1078.6	77.5	64.0	60.5	56.5	51.4	43.2	36.9	33.6	33.4
57.5°	1708.1	991.5	68.2	57.7	53.5	48.6	42.3	34.6	28.5	25.9	25.9
60°	1663.5	873.5	61.0	50.9	46.2	40.6	34.1	26.9	21.3	19.2	19.2
62.5°	1574.5	720.8	54.2	43.9	39.5	33.6	27.6	20.3	14.9	13.8	14.0
65°	1406.5	546.8	47.4	37.6	33.6	27.8	21.5	14.5	10.0	10.0	10.5
67.5°	1147.0	379.8	40.4	32.0	29.0	22.7	16.3	10.0	7.0	7.9	8.9
70°	759.3	213.0	34.6	26.4	24.8	18.0	12.1	6.8	5.6	7.5	9.1
72.5°	286.6	82.9	29.0	21.3	21.5	13.8	8.6	5.1	5.1	8.2	10.7
75°	79.9	40.6	20.8	15.6	16.8	10.0	6.3	4.4	4.9	9.3	12.6
77.5°	46.9	29.9	13.5	9.1	11.4	7.0	4.2	3.5	4.2	7.9	12.1
80°	37.8	15.9	7.9	4.7	6.3	4.0	2.8	2.1	1.2	3.0	6.3
82.5°	37.8	9.6	3.7	3.3	3.3	2.1	1.4	0.9	0.2	0.0	1.6
85°	25.5	4.0	2.3	2.1	1.6	0.7	0.5	0.2	0.0	0.0	0.0
87.5°	4.2	1.6	0.9	0.5	0.2	0.0	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)