

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: P573520

Luminaire Tested: **ARCH-S-PA2-80-830-U-T2U**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573520
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-15)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-80-830-U-T2U
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 3000K, 820mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9289 lumens
Efficiency: N/A
Efficacy: 111.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

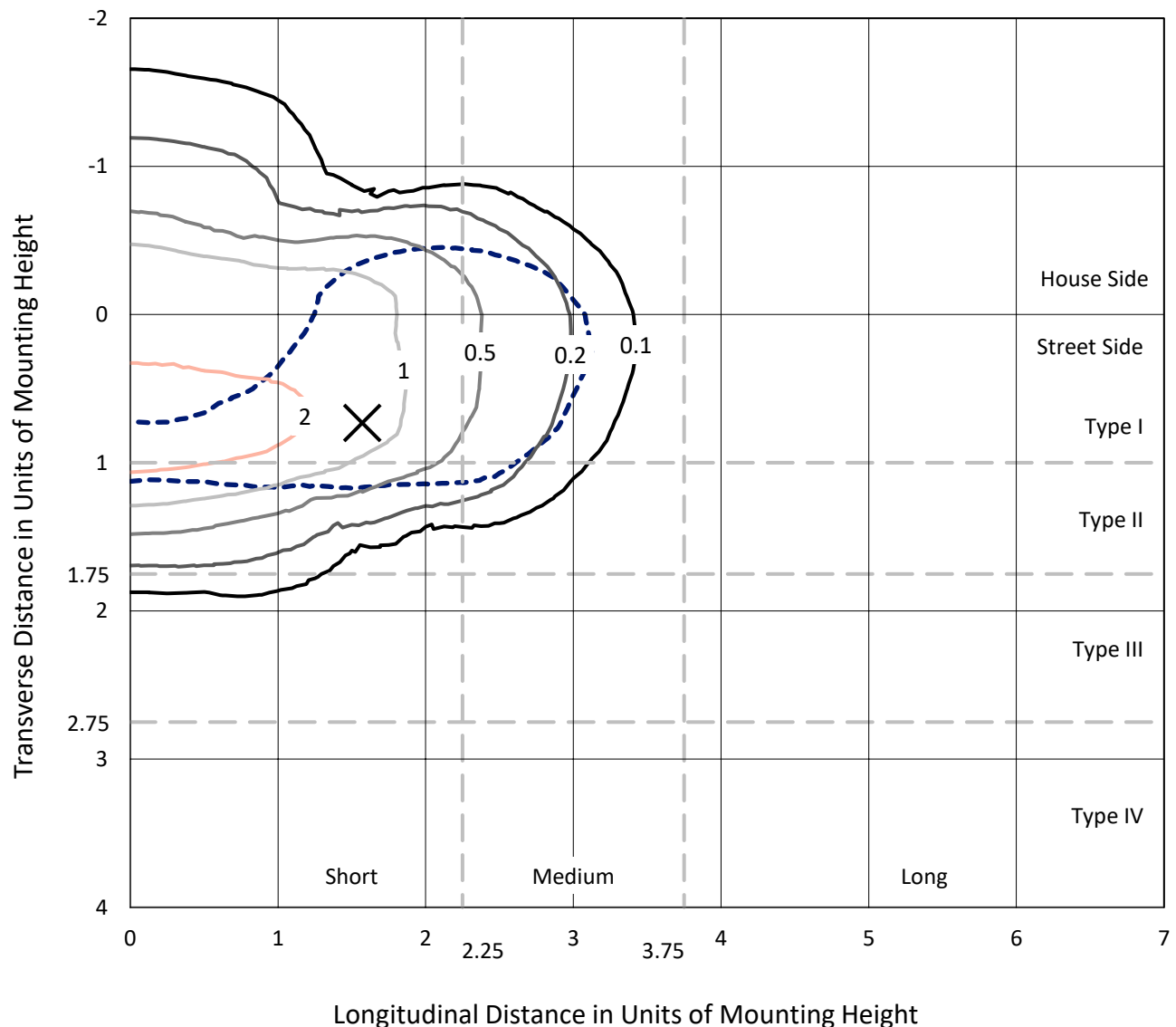
Input Watts (W): 83
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

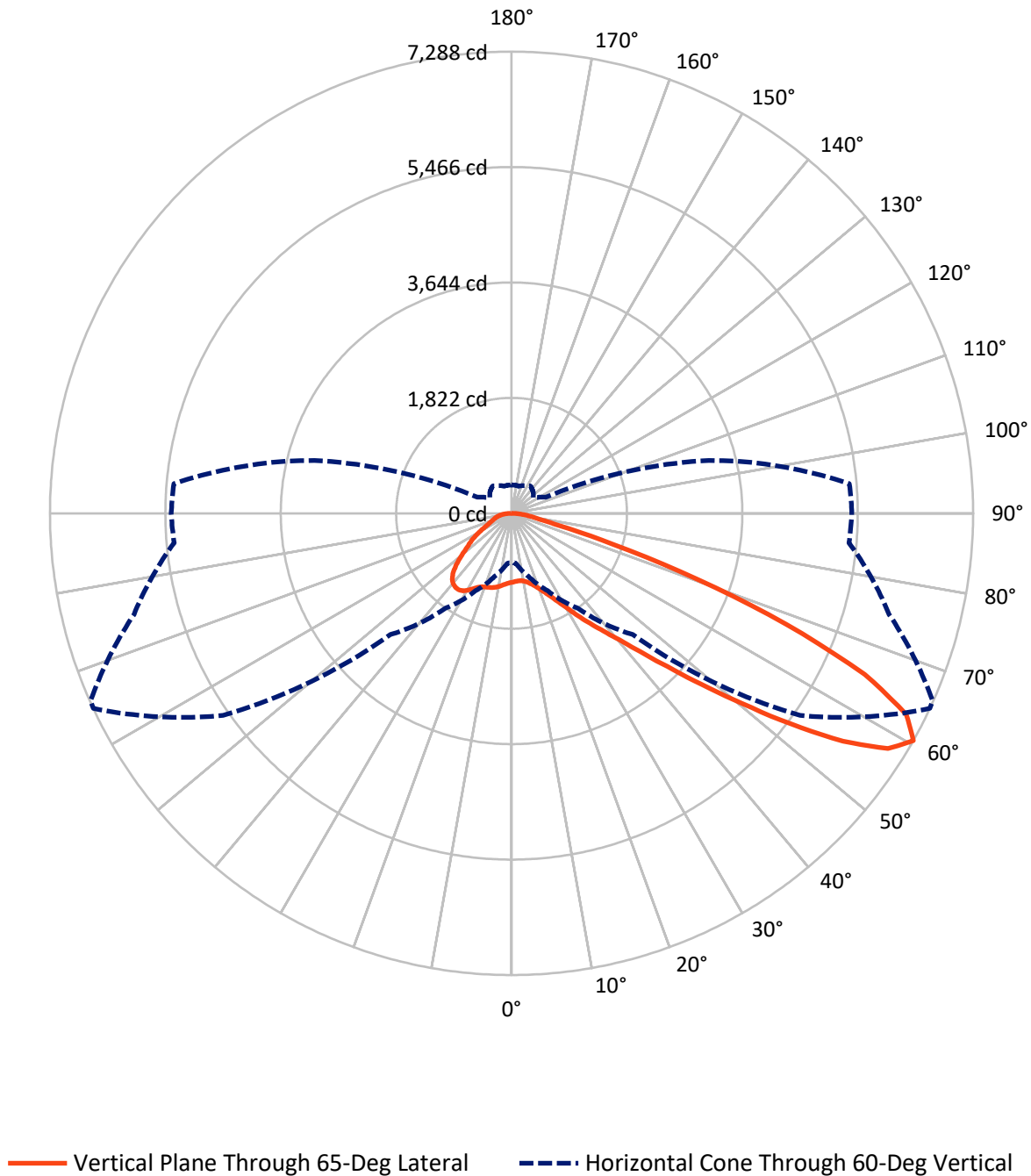
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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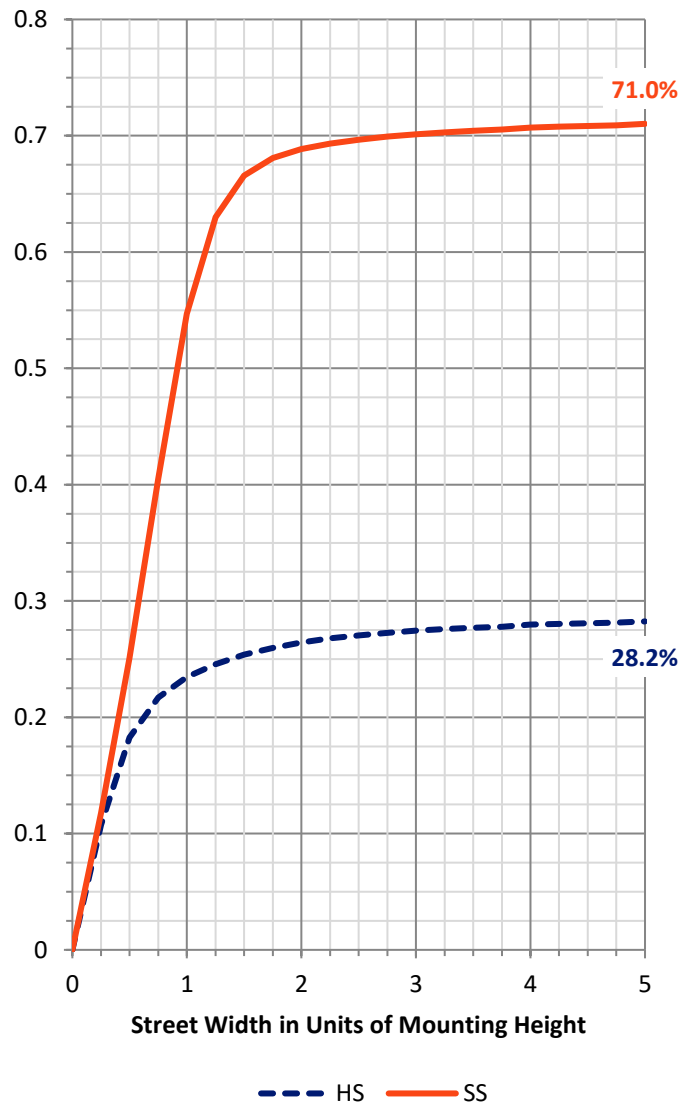
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2659.2	0.0	2659.2
	% Fixture	28.6	0.0	28.6
Street Side	Lumens	6629.8	0.0	6629.8
	% Fixture	71.4	0.0	71.4
Total	Lumens	9289.0	0.0	9289.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.3	1.1
10°-20°	338.9	3.6
20°-30°	649.7	7.0
30°-40°	1128.3	12.1
40°-50°	1913.6	20.6
50°-60°	2382.8	25.7
60°-70°	1920.1	20.7
70°-80°	727.1	7.8
80°-90°	123.3	1.3
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°	9289.0	100.0
0°-180°	9289.0	100.0

Coefficient of Utilization



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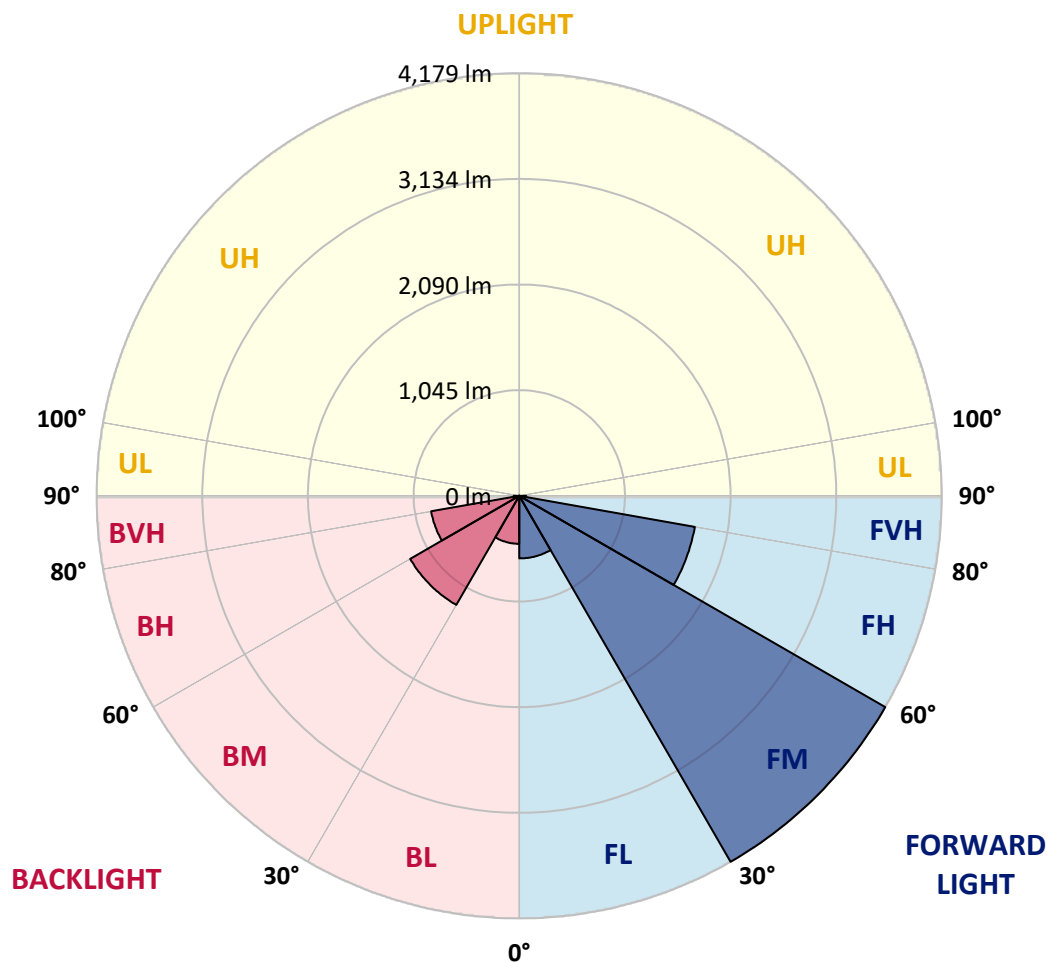
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	619.3	6.7			
FM	(30°-60°)	4179.1	45.0			
FH	(60°-80°)	1763.0	19.0			G1/1800
FVH	(80°-90°)	68.4	0.7			G1/100
BL	(0°-30°)	474.6	5.1	B1/500		
BM	(30°-60°)	1245.5	13.4	B2/2500		
BH	(60°-80°)	884.2	9.5	B2/1000		G2/1000
BVH	(80°-90°)	54.9	0.6			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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1089.9	1089.9	1089.9	1089.9	1089.9	1089.9	1089.9	1089.9	1089.9	1089.9	1089.9
2.5°	1064.4	1064.4	1064.4	1067.0	1069.5	1072.1	1077.1	1077.1	1077.1	1079.7	1084.8
5°	1044.0	1041.5	1044.0	1046.6	1051.7	1056.8	1067.0	1072.1	1072.1	1082.2	1092.4
7.5°	1046.6	1041.5	1041.5	1044.0	1049.1	1054.2	1064.4	1072.1	1074.6	1087.3	1105.2
10°	1072.1	1064.4	1064.4	1067.0	1067.0	1072.1	1079.7	1089.9	1092.4	1105.2	1123.0
12.5°	1125.5	1117.9	1115.3	1107.7	1100.1	1105.2	1112.8	1115.3	1117.9	1125.5	1143.4
15°	1237.6	1224.8	1204.5	1189.2	1168.8	1156.1	1153.5	1156.1	1156.1	1158.6	1168.8
17.5°	1398.0	1382.7	1352.2	1319.1	1270.7	1229.9	1217.2	1207.0	1207.0	1199.4	1199.4
20°	1594.1	1571.2	1535.5	1487.1	1415.8	1342.0	1298.7	1275.8	1268.1	1255.4	1237.6
22.5°	1820.7	1805.4	1759.6	1685.7	1578.8	1479.5	1408.2	1357.3	1357.3	1326.7	1288.5
25°	2088.1	2060.1	2006.6	1920.0	1774.9	1632.3	1535.5	1461.7	1454.0	1405.6	1344.5
27.5°	2347.8	2330.0	2263.8	2149.2	1976.0	1810.5	1675.6	1589.0	1576.3	1499.9	1405.6
30°	2663.6	2643.2	2543.9	2383.5	2197.6	2009.1	1851.3	1739.2	1726.5	1622.1	1489.7
32.5°	3055.7	2987.0	2864.8	2681.4	2442.0	2230.7	2049.9	1930.2	1914.9	1795.2	1637.4
35°	3531.9	3473.4	3262.0	3068.5	2783.3	2505.7	2289.3	2131.4	2111.0	1968.4	1769.8
37.5°	3868.1	3840.0	3694.9	3542.1	3216.2	2841.8	2577.0	2358.0	2337.6	2149.2	1892.0
40°	4079.4	4051.4	4010.7	3967.4	3786.6	3363.9	2923.3	2625.4	2592.3	2414.0	2136.5
42.5°	4188.9	4166.0	4173.6	4260.2	4311.1	4244.9	3417.3	2981.9	2959.0	2742.5	2434.4
45°	4125.2	4110.0	4183.8	4413.0	4662.5	5151.5	4051.4	3450.4	3389.3	3132.1	2796.0
47.5°	3819.7	3773.8	3947.0	4336.6	4871.4	5584.4	4815.3	4028.5	3962.3	3593.0	3162.7
50°	3190.7	3178.0	3414.8	3908.8	4789.9	5755.0	5632.7	4710.9	4662.5	4089.6	3570.1
52.5°	2605.0	2599.9	2783.3	3236.5	4270.4	5635.3	6226.1	5523.2	5378.1	4588.7	4013.2
55°	2021.9	2019.3	2182.3	2521.0	3407.1	5072.5	6506.2	6350.8	6243.9	5133.6	4469.0
57.5°	1382.7	1364.9	1576.3	1833.4	2559.2	4018.3	6322.8	7005.3	6939.1	5711.7	4952.8
60°	769.0	794.5	1028.8	1347.1	1830.9	2706.9	5558.9	7287.9	7277.7	6172.6	5347.5
62.5°	544.9	555.1	654.4	957.5	1204.5	1550.8	4288.2	6995.1	7076.6	6427.2	5571.6
65°	453.3	458.4	506.7	707.9	881.1	896.3	2673.8	6126.7	6233.7	6348.3	5620.0
67.5°	427.8	430.3	455.8	522.0	690.1	649.3	1194.3	4677.8	4904.5	5711.7	5304.2
70°	389.6	392.2	430.3	460.9	557.7	511.8	613.7	3106.7	3412.2	4514.8	4573.4
72.5°	333.6	341.2	371.8	432.9	453.3	425.3	473.6	1660.3	1963.3	3020.1	3531.9
75°	287.7	292.8	315.8	366.7	425.3	338.7	402.3	756.3	886.2	1772.3	2235.8
77.5°	231.7	234.3	267.4	300.5	356.5	275.0	313.2	453.3	476.2	865.8	1010.9
80°	175.7	175.7	198.6	239.4	264.8	264.8	229.2	315.8	328.5	412.5	399.8
82.5°	135.0	132.4	150.2	168.1	191.0	221.5	173.2	208.8	213.9	249.6	213.9
85°	89.1	89.1	99.3	114.6	127.3	122.2	135.0	122.2	127.3	155.3	117.1
87.5°	38.2	38.2	53.5	50.9	56.0	58.6	66.2	58.6	58.6	71.3	53.5
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°	1089.9	1089.9	1089.9	1089.9	1089.9	1089.9	1089.9	1089.9	1089.9	1089.9	1089.9
2.5°	1087.3	1089.9	1095.0	1097.5	1105.2	1107.7	1107.7	1112.8	1112.8	1117.9	1117.9
5°	1095.0	1102.6	1110.3	1117.9	1125.5	1128.1	1133.2	1135.7	1135.7	1140.8	1138.3
7.5°	1110.3	1117.9	1133.2	1140.8	1151.0	1156.1	1153.5	1156.1	1153.5	1156.1	1156.1
10°	1130.6	1140.8	1158.6	1168.8	1176.5	1179.0	1171.4	1163.7	1153.5	1153.5	1153.5
12.5°	1153.5	1161.2	1184.1	1191.7	1196.8	1189.2	1168.8	1153.5	1145.9	1148.4	1145.9
15°	1176.5	1184.1	1201.9	1209.6	1209.6	1186.6	1168.8	1163.7	1161.2	1163.7	1163.7
17.5°	1199.4	1207.0	1222.3	1222.3	1214.7	1196.8	1179.0	1161.2	1148.4	1140.8	1140.8
20°	1229.9	1229.9	1235.0	1235.0	1232.5	1204.5	1161.2	1117.9	1092.4	1077.1	1074.6
22.5°	1270.7	1260.5	1250.3	1250.3	1260.5	1186.6	1102.6	1036.4	995.7	990.6	980.4
25°	1314.0	1291.0	1265.6	1283.4	1265.6	1140.8	1021.1	932.0	883.6	865.8	870.9
27.5°	1359.8	1324.2	1286.0	1336.9	1240.1	1051.7	906.5	807.2	761.4	748.7	748.7
30°	1423.5	1370.0	1314.0	1392.9	1191.7	949.8	771.6	700.3	674.8	664.6	662.1
32.5°	1545.7	1464.2	1382.7	1443.8	1138.3	817.4	679.9	636.6	606.1	595.9	603.5
35°	1655.2	1540.6	1487.1	1466.8	1054.2	710.5	623.9	585.7	560.2	547.5	547.5
37.5°	1754.5	1645.0	1604.3	1466.8	944.7	644.3	588.2	557.7	524.6	514.4	514.4
40°	1970.9	1825.8	1754.5	1446.4	809.8	611.1	570.4	534.8	506.7	496.6	494.0
42.5°	2268.9	2072.8	1909.8	1400.5	695.2	595.9	560.2	519.5	496.6	488.9	486.4
45°	2584.6	2411.5	2057.5	1319.1	621.3	580.6	557.7	514.4	486.4	478.7	476.2
47.5°	2966.6	2788.4	2228.1	1194.3	570.4	570.4	555.1	506.7	481.3	473.6	473.6
50°	3389.3	3241.6	2444.6	1051.7	532.2	562.8	550.0	506.7	478.7	471.1	468.5
52.5°	3822.2	3753.5	2671.2	911.6	494.0	552.6	547.5	506.7	473.6	466.0	466.0
55°	4372.2	4316.2	2933.5	807.2	463.5	532.2	547.5	501.6	466.0	460.9	460.9
57.5°	4912.1	4891.7	3137.2	715.6	440.5	506.7	539.8	494.0	458.4	455.8	455.8
60°	5373.0	5352.6	3223.8	601.0	417.6	481.3	524.6	481.3	445.6	448.2	448.2
62.5°	5658.2	5541.1	3160.1	496.6	394.7	458.4	506.7	466.0	432.9	440.5	438.0
65°	5709.1	5436.7	2913.1	415.1	369.2	432.9	486.4	448.2	415.1	432.9	430.3
67.5°	5334.8	4881.5	2449.7	361.6	343.8	404.9	463.5	422.7	394.7	420.2	412.5
70°	4525.0	3964.8	1813.1	320.9	318.3	371.8	432.9	392.2	366.7	379.4	369.2
72.5°	3368.9	2862.2	1173.9	290.3	290.3	333.6	389.6	354.0	328.5	331.0	320.9
75°	2100.8	1759.6	667.2	262.3	262.3	295.4	346.3	310.7	292.8	282.7	295.4
77.5°	954.9	774.1	351.4	234.3	236.8	252.1	297.9	264.8	244.5	229.2	236.8
80°	354.0	315.8	229.2	201.2	206.3	208.8	239.4	211.4	193.5	183.3	178.3
82.5°	183.3	170.6	155.3	160.4	168.1	160.4	185.9	157.9	137.5	129.9	109.5
85°	91.7	89.1	94.2	107.0	117.1	99.3	112.0	101.9	84.0	61.1	61.1
87.5°	35.7	38.2	35.7	48.4	53.5	45.8	50.9	35.7	25.5	12.7	10.2
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)