

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: P287043

Luminaire Tested: **USSL-C027-D-U-T4-BZ-7050-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P287043
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1810-004-9)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: USSL-C027-D-U-T4-BZ-7050-HSS
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD, BRONZE
PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12150 lumens
Efficiency: N/A
Efficacy: 126.6 lumens/watt
Luminous Opening: Rectangular (W 1.12' x L: 1.1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G4

Input Watts (W): 96
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



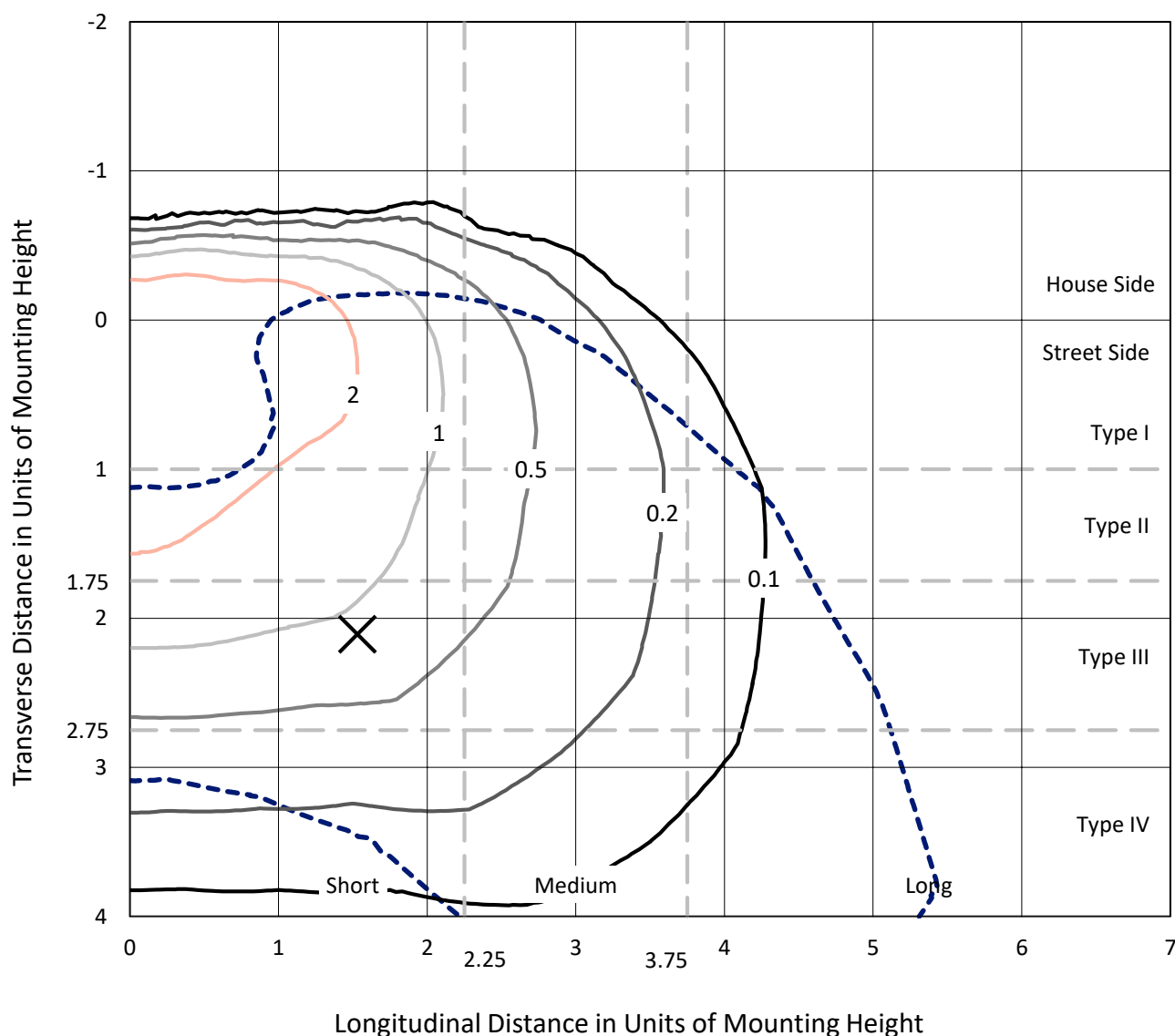
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

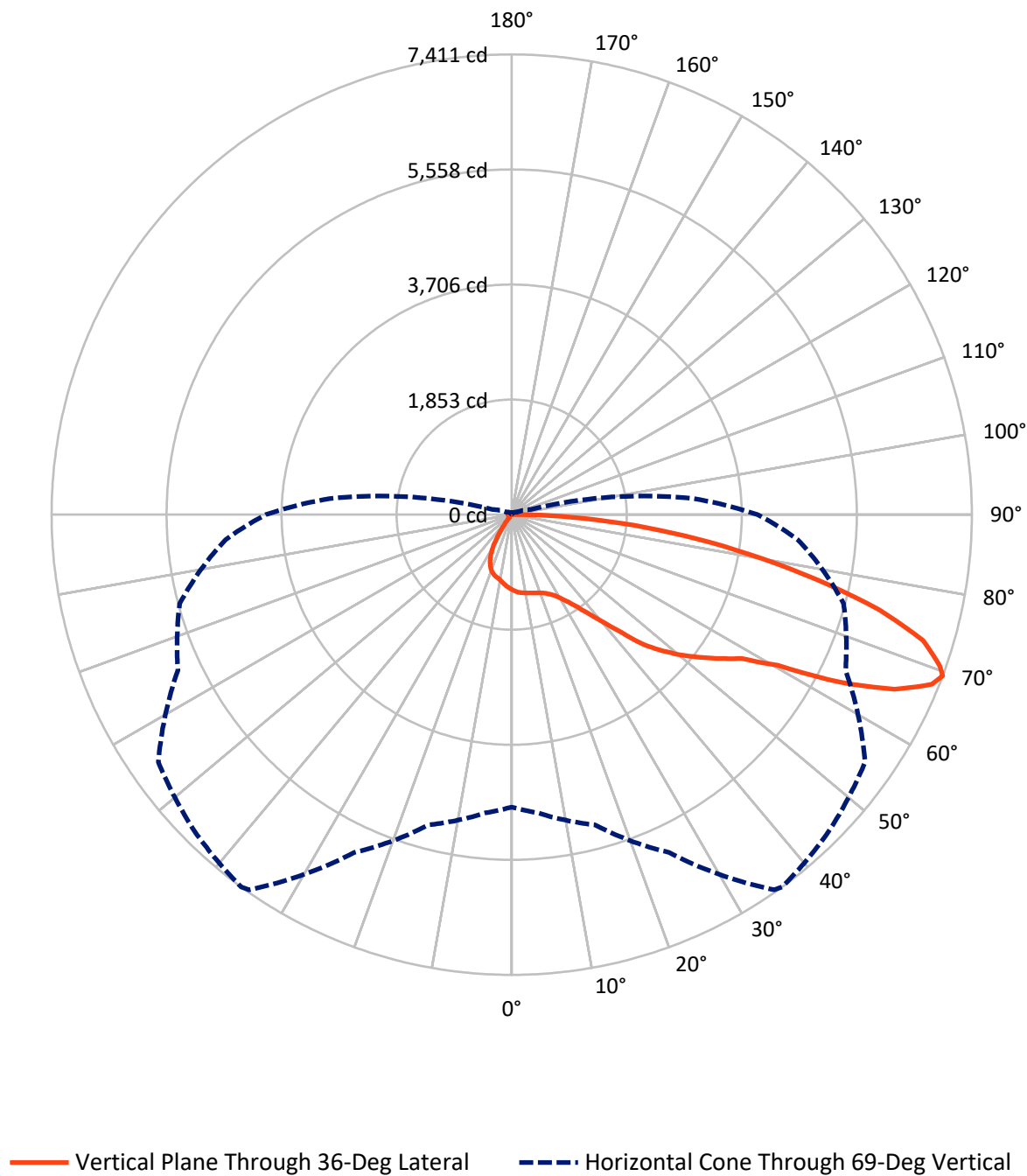


Based on 20 foot mounting height. Maximum calculated value = 3.9 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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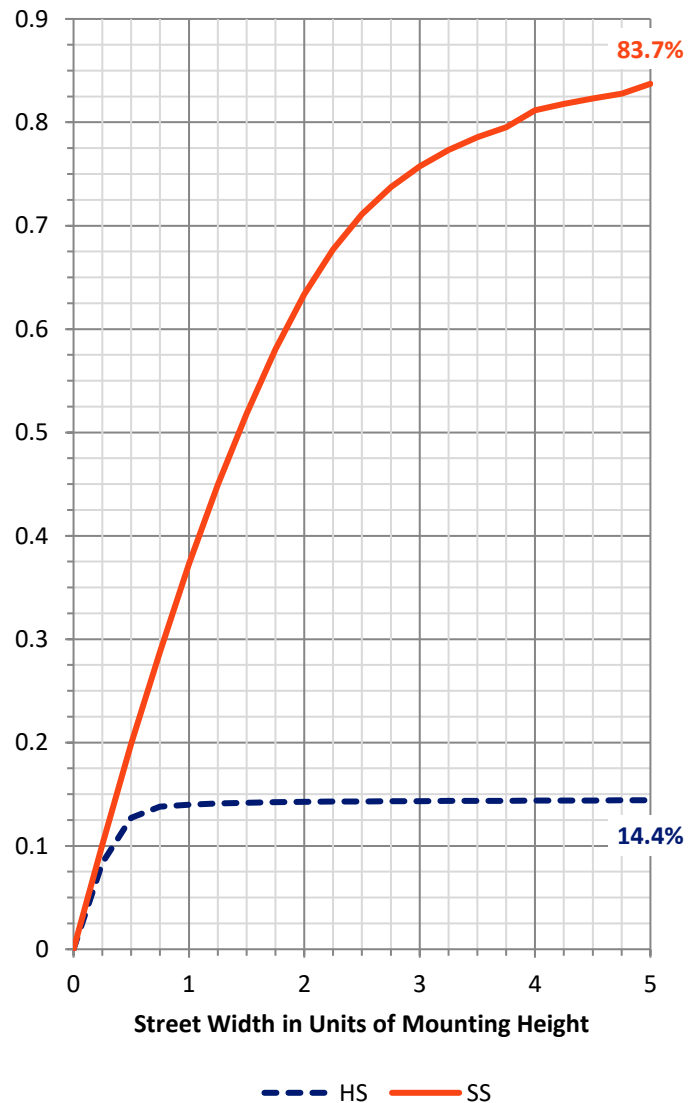
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1771.6	0.0	1771.6
	% Fixture	14.6	0.0	14.6
Street Side	Lumens	10378.4	0.0	10378.4
	% Fixture	85.4	0.0	85.4
Total	Lumens	12150.0	0.0	12150.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.9	0.9
10°-20°	343.1	2.8
20°-30°	574.8	4.7
30°-40°	929.6	7.7
40°-50°	1639.7	13.5
50°-60°	2390.1	19.7
60°-70°	3156.8	26.0
70°-80°	2427.2	20.0
80°-90°	573.8	4.7
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°	12150.0	100.0
0°-180°	12150.0	100.0

Coefficient of Utilization



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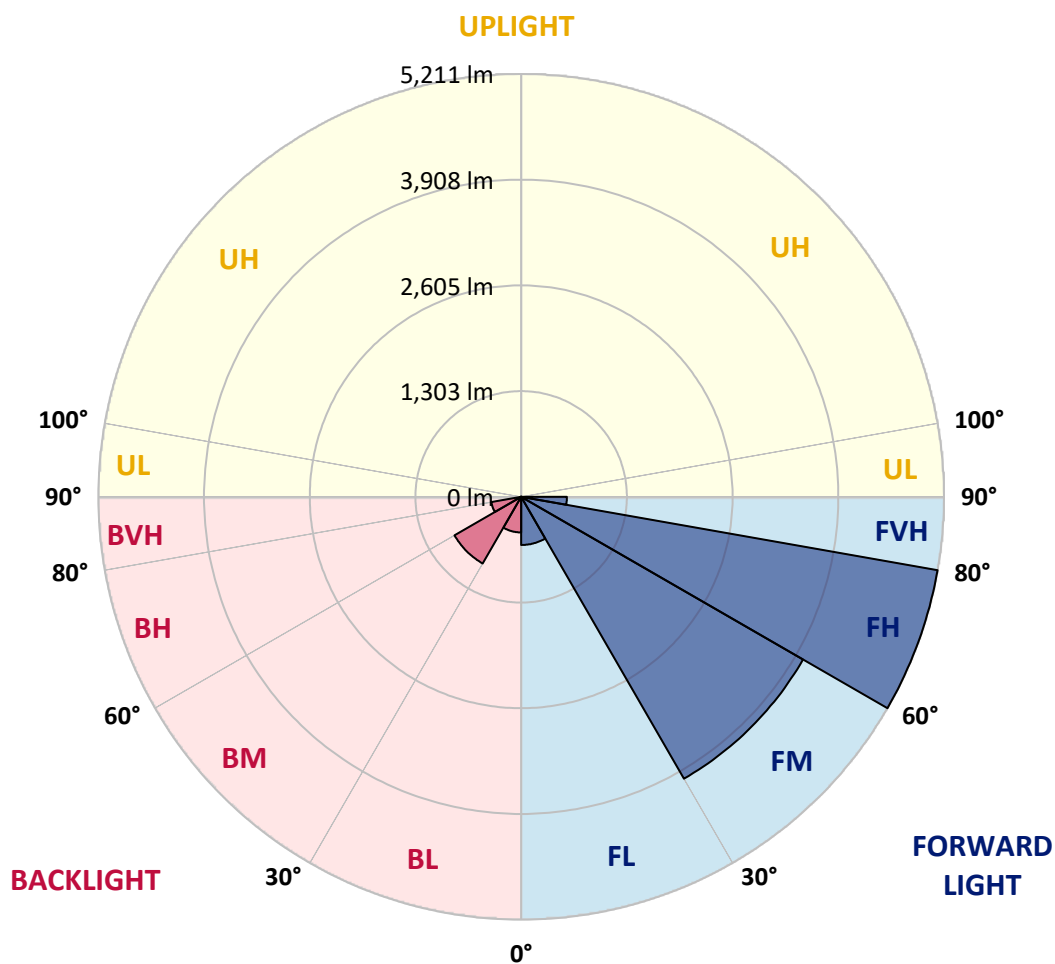
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	593.9	4.9			
FM	(30°-60°)	4010.8	33.0			
FH	(60°-80°)	5210.5	42.9			G3/7500
FVH	(80°-90°)	563.2	4.6			G4/750
BL	(0°-30°)	438.8	3.6	B1/500		
BM	(30°-60°)	948.6	7.8	B1/1000		
BH	(60°-80°)	373.5	3.1	B1/500		G1/500
BVH	(80°-90°)	10.7	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	1210.6	1210.6	1210.6	1210.6	1210.6	1210.6	1210.6	1210.6	1210.6	1210.6	1210.6
2.5°	1255.2	1257.2	1251.3	1237.5	1234.2	1235.5	1236.8	1229.0	1220.4	1216.5	1207.3
5°	1277.5	1278.2	1275.5	1263.1	1259.8	1259.8	1258.5	1249.3	1240.8	1235.5	1222.4
7.5°	1283.4	1282.8	1284.1	1271.0	1274.2	1268.3	1272.3	1263.1	1255.2	1248.0	1236.2
10°	1292.6	1293.9	1292.6	1282.1	1283.4	1284.7	1284.1	1277.5	1276.9	1276.2	1255.9
12.5°	1288.0	1287.4	1291.3	1284.7	1293.9	1295.2	1309.7	1312.9	1316.2	1316.2	1295.2
15°	1284.7	1277.5	1293.9	1288.7	1307.7	1309.7	1331.3	1351.0	1354.9	1356.3	1348.4
17.5°	1289.3	1288.0	1311.0	1301.1	1328.0	1323.4	1344.4	1379.2	1397.6	1406.8	1411.4
20°	1309.0	1314.3	1333.3	1323.4	1345.8	1345.8	1368.7	1406.1	1440.9	1463.9	1468.5
22.5°	1339.2	1341.2	1363.5	1353.6	1371.3	1373.3	1393.0	1437.0	1484.2	1522.9	1542.6
25°	1371.3	1370.0	1388.4	1389.1	1412.7	1418.6	1435.6	1471.1	1533.4	1583.9	1637.7
27.5°	1418.6	1416.0	1437.6	1431.1	1475.0	1474.4	1494.0	1536.0	1606.2	1672.5	1754.5
30°	1495.4	1488.8	1501.9	1512.4	1562.3	1564.3	1582.0	1623.3	1694.2	1790.6	1890.4
32.5°	1619.4	1624.6	1623.3	1610.2	1673.2	1677.1	1720.4	1787.3	1859.5	1975.7	2092.5
35°	1880.5	1879.9	1844.4	1811.0	1816.9	1828.7	1885.1	2005.8	2153.5	2427.7	2530.8
37.5°	2205.3	2221.1	2158.7	2062.3	2030.8	2028.8	2078.0	2257.1	2498.6	3028.1	3069.5
40°	2635.1	2605.6	2530.1	2381.8	2302.4	2280.1	2296.5	2507.1	2877.9	3539.9	3500.5
42.5°	2927.1	2940.2	2857.5	2730.9	2612.8	2595.7	2557.0	2782.1	3288.6	3948.0	3837.8
45°	3277.5	3303.7	3212.5	3122.6	3003.2	2992.7	2934.3	3065.5	3683.6	4250.5	4101.6
47.5°	3582.6	3600.9	3455.3	3371.3	3285.3	3276.8	3221.7	3351.6	4026.8	4499.2	4317.4
50°	3911.3	3926.4	3767.6	3648.2	3566.8	3558.9	3528.1	3672.5	4374.5	4734.1	4495.9
52.5°	4330.6	4274.1	4081.2	3918.5	3828.0	3817.5	3832.5	3992.6	4703.9	4903.4	4639.0
55°	4821.4	4667.8	4421.1	4217.7	4082.5	4089.8	4107.5	4318.1	4984.1	5067.4	4746.6
57.5°	5117.3	5125.8	4940.8	4640.9	4384.4	4369.9	4356.8	4613.4	5211.8	5249.2	4850.9
60°	5512.9	5539.8	5515.6	5330.5	4984.7	4923.1	4709.2	4942.7	5453.2	5396.1	4913.2
62.5°	5813.5	5857.4	5999.1	5885.0	5925.0	5951.2	5362.7	5337.1	5675.0	5496.5	4926.3
65°	5744.6	5786.6	6077.2	6301.6	6724.2	6780.0	6631.7	5839.0	5848.2	5541.2	4884.4
67.5°	5222.9	5266.2	5620.5	6224.9	7233.4	7296.3	7138.2	6710.4	5934.2	5543.1	4777.4
69°	4709.2	4820.7	5171.1	6003.7	7375.7	7411.2	7218.9	6947.9	5932.9	5535.2	4626.5
70°	4402.1	4491.3	4888.9	5748.5	7301.6	7318.7	7170.4	7043.7	5910.6	5466.4	4484.8
72.5°	3539.3	3519.6	3942.8	4873.2	6942.7	6932.2	6948.6	6915.1	5869.9	5214.4	3887.0
75°	2565.5	2572.7	2964.5	3834.5	6036.5	6113.3	6441.4	6640.2	5474.2	4547.7	2860.1
77.5°	1823.4	1838.5	2175.1	2935.6	4975.6	5011.6	5613.3	5824.6	4606.1	3578.0	1559.0
80°	1220.4	1233.6	1548.5	2164.6	3800.4	3882.4	4538.6	4585.8	3486.1	2214.5	282.1
82.5°	763.1	769.7	1013.7	1541.9	2772.9	2812.9	3116.7	3025.5	1812.3	493.4	84.0
85°	437.6	445.5	621.4	976.3	1751.3	1766.3	1969.1	1496.7	434.4	66.3	45.9
87.5°	125.3	134.5	257.2	421.2	790.0	784.1	734.9	490.1	70.2	30.2	21.7
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°	1210.6	1210.6	1210.6	1210.6	1210.6	1210.6	1210.6	1210.6	1210.6	1210.6	1210.6
2.5°	1200.1	1209.9	1198.1	1189.6	1179.8	1181.1	1181.1	1169.9	1169.9	1185.7	1187.6
5°	1215.2	1222.4	1202.1	1185.7	1164.7	1160.1	1146.9	1133.8	1129.2	1143.0	1145.0
7.5°	1229.0	1225.0	1200.7	1174.5	1146.9	1125.3	1108.9	1087.2	1077.4	1093.1	1095.8
10°	1242.7	1230.9	1206.0	1174.5	1130.5	1099.0	1074.8	1036.1	1025.6	1033.4	1037.4
12.5°	1280.8	1265.0	1236.2	1181.7	1131.9	1089.2	1042.0	993.4	968.5	977.7	982.9
15°	1337.2	1313.6	1283.4	1216.5	1147.6	1085.9	1021.6	944.9	899.6	894.3	895.6
17.5°	1404.2	1379.2	1339.2	1257.8	1169.9	1085.9	990.8	894.3	819.5	797.9	800.5
20°	1471.7	1444.2	1412.0	1305.7	1190.9	1069.5	952.7	826.7	719.8	670.6	670.6
22.5°	1549.2	1529.5	1475.7	1343.8	1198.1	1043.9	894.3	735.5	604.3	532.1	529.5
25°	1649.6	1631.8	1532.8	1374.0	1192.2	1011.8	818.9	627.9	465.2	391.7	387.8
27.5°	1761.8	1727.0	1588.5	1396.3	1171.9	959.9	718.5	491.5	324.1	254.6	251.3
30°	1886.4	1835.9	1631.2	1392.3	1134.5	872.7	600.4	330.0	189.0	143.0	143.0
32.5°	2065.5	1973.7	1681.7	1383.2	1082.6	768.3	440.9	195.5	94.5	72.8	72.8
35°	2415.3	2242.7	1758.5	1358.2	998.7	630.6	277.5	87.9	51.8	51.2	51.2
37.5°	2884.4	2589.8	1881.8	1321.5	883.2	458.6	138.4	48.6	48.6	49.9	49.2
40°	3295.8	2963.8	2046.5	1265.7	756.5	289.4	63.0	46.6	49.2	51.2	51.2
42.5°	3601.6	3252.5	2206.0	1184.3	604.3	147.6	52.5	45.3	47.2	47.9	48.6
45°	3860.8	3495.3	2333.3	1081.3	442.2	70.2	52.5	44.6	44.6	44.6	45.3
47.5°	4059.6	3673.1	2420.5	959.9	274.9	59.1	55.1	44.0	41.3	40.0	40.7
50°	4215.1	3797.1	2451.4	824.8	135.8	59.7	53.8	41.3	36.1	36.7	37.4
52.5°	4324.7	3897.5	2418.6	656.1	70.2	63.0	54.5	40.0	32.2	34.1	34.1
55°	4426.4	3922.4	2335.2	466.5	63.0	63.6	54.5	36.7	27.6	31.5	33.5
57.5°	4452.0	3921.8	2204.7	293.3	67.6	60.4	51.8	36.1	26.2	31.5	32.8
60°	4490.0	3889.6	2025.5	179.1	70.9	55.8	48.6	34.1	24.9	26.2	27.6
62.5°	4448.7	3834.5	1757.2	118.8	68.2	51.8	47.2	32.8	21.7	19.7	19.0
65°	4368.0	3650.1	1326.1	95.8	63.6	50.5	42.6	28.9	17.7	12.5	11.8
67.5°	4179.7	3299.8	701.4	90.5	59.7	49.9	38.1	26.9	14.4	7.2	6.6
69°	3957.9	2944.8	318.2	91.9	69.6	49.9	38.7	23.6	13.1	5.2	4.6
70°	3726.3	2620.6	145.0	89.2	75.5	52.5	38.1	21.7	11.8	4.6	3.9
72.5°	2873.9	1629.2	99.1	79.4	84.0	51.2	38.1	20.3	11.2	2.6	2.0
75°	1706.0	404.2	89.2	63.0	80.0	62.3	45.9	22.3	9.8	1.3	0.0
77.5°	442.2	112.9	75.5	47.9	70.9	70.2	53.1	22.3	9.8	0.0	0.0
80°	114.2	86.6	65.0	30.8	55.8	68.2	43.3	24.9	7.9	0.0	0.0
82.5°	68.2	63.0	70.9	19.0	44.6	45.9	25.6	17.7	8.5	0.0	0.0
85°	39.4	54.5	49.9	14.4	8.5	4.6	10.5	19.7	8.5	0.0	0.0
87.5°	23.0	29.5	11.2	2.0	2.0	1.3	0.7	2.6	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)