

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: P287039

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P287039
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-HSS
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K 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: 11933 lumens
Efficiency: N/A
Efficacy: 124.3 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

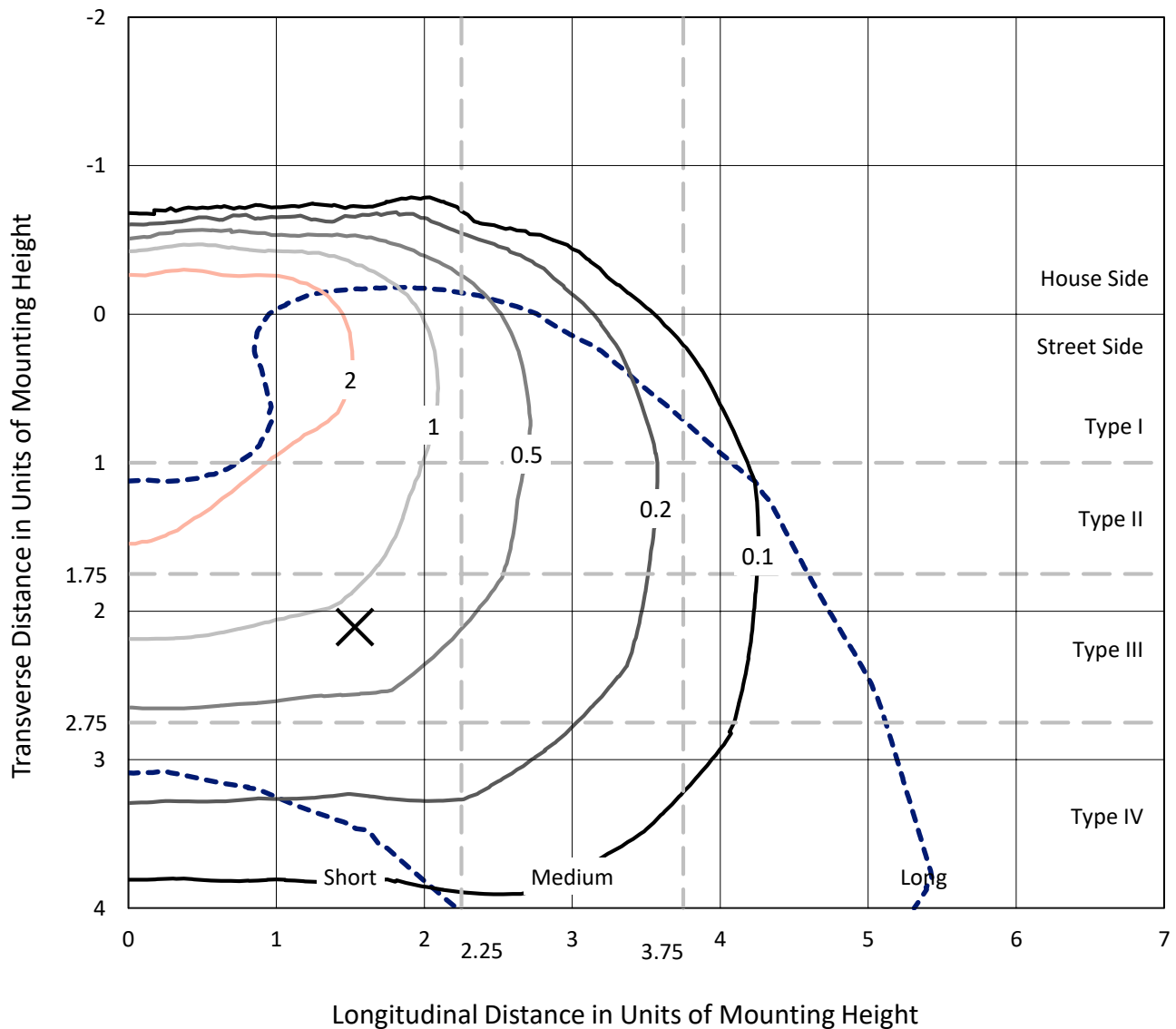


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

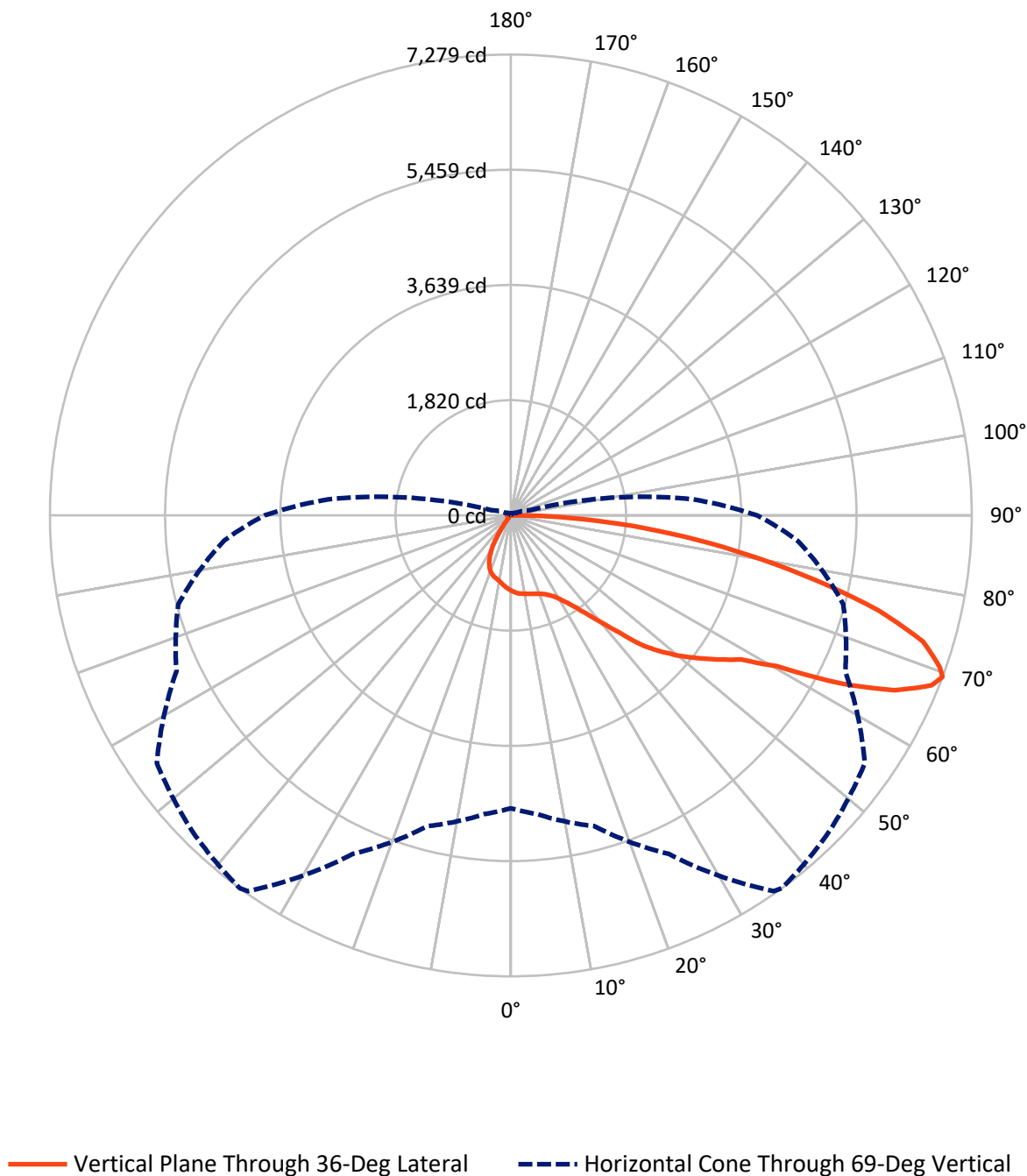


Based on 20 foot mounting height. Maximum calculated value = 3.8 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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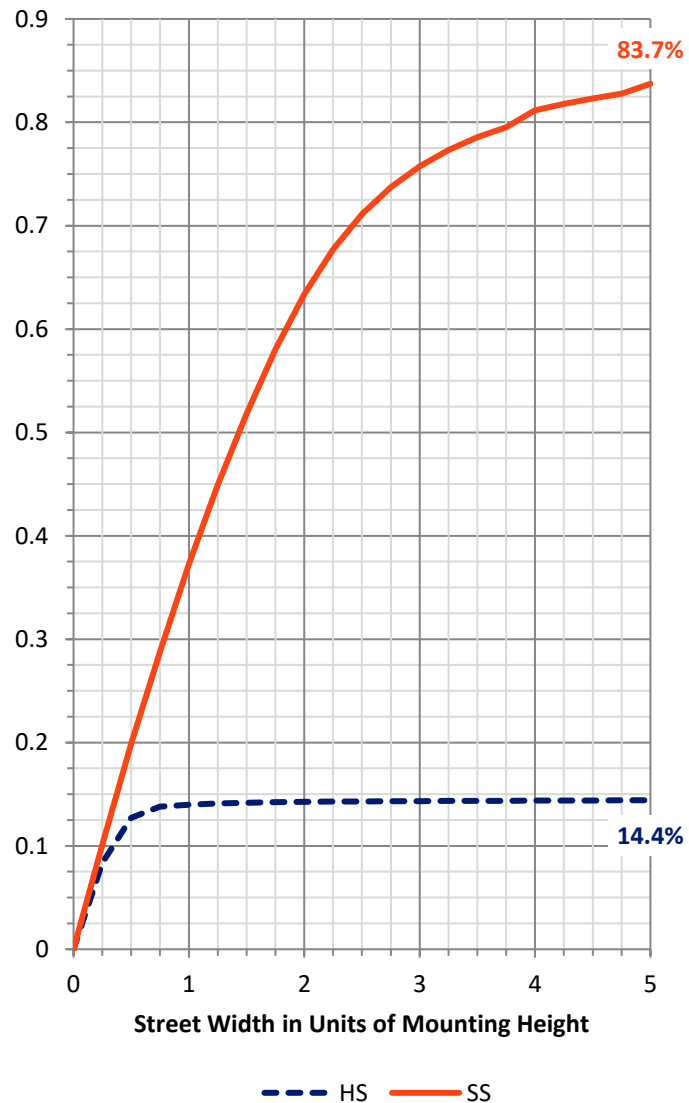
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1740.0	0.0	1740.0
	% Fixture	14.6	0.0	14.6
Street Side	Lumens	10193.1	0.0	10193.1
	% Fixture	85.4	0.0	85.4
Total	Lumens	11933.0	0.0	11933.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.8	0.9
10°-20°	336.9	2.8
20°-30°	564.6	4.7
30°-40°	913.0	7.7
40°-50°	1610.4	13.5
50°-60°	2347.4	19.7
60°-70°	3100.4	26.0
70°-80°	2383.9	20.0
80°-90°	563.6	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°	11933.0	100.0
0°-180°	11933.0	100.0

Coefficient of Utilization



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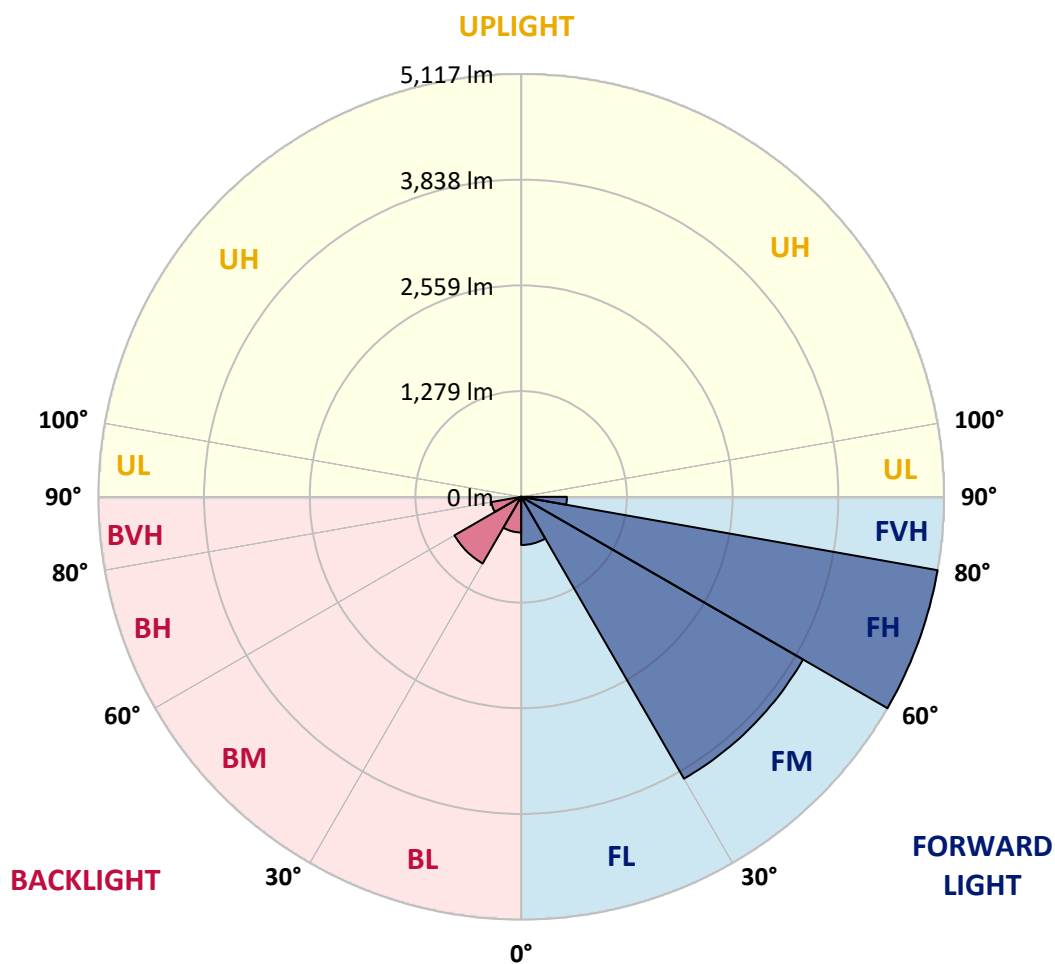
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	583.3	4.9			
FM	(30°-60°)	3939.2	33.0			
FH	(60°-80°)	5117.5	42.9			G3/7500
FVH	(80°-90°)	553.1	4.6			G4/750
BL	(0°-30°)	431.0	3.6	B1/500		
BM	(30°-60°)	931.7	7.8	B1/1000		
BH	(60°-80°)	366.8	3.1	B1/500		G1/500
BVH	(80°-90°)	10.5	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°	1189.0	1189.0	1189.0	1189.0	1189.0	1189.0	1189.0	1189.0	1189.0	1189.0	1189.0
2.5°	1232.8	1234.7	1228.9	1215.4	1212.2	1213.5	1214.7	1207.0	1198.6	1194.8	1185.7
5°	1254.7	1255.3	1252.8	1240.5	1237.3	1237.3	1236.0	1227.0	1218.6	1213.5	1200.6
7.5°	1260.5	1259.9	1261.1	1248.3	1251.5	1245.7	1249.5	1240.5	1232.8	1225.7	1214.1
10°	1269.5	1270.8	1269.5	1259.2	1260.5	1261.8	1261.1	1254.7	1254.1	1253.4	1233.4
12.5°	1265.0	1264.4	1268.2	1261.8	1270.8	1272.1	1286.3	1289.5	1292.7	1292.7	1272.1
15°	1261.8	1254.7	1270.8	1265.7	1284.3	1286.3	1307.5	1326.9	1330.7	1332.0	1324.3
17.5°	1266.3	1265.0	1287.6	1277.9	1304.3	1299.8	1320.4	1354.6	1372.6	1381.7	1386.2
20°	1285.6	1290.8	1309.5	1299.8	1321.7	1321.7	1344.3	1381.0	1415.2	1437.7	1442.2
22.5°	1315.3	1317.2	1339.1	1329.5	1346.9	1348.8	1368.1	1411.3	1457.7	1495.7	1515.0
25°	1346.9	1345.6	1363.6	1364.3	1387.5	1393.3	1410.0	1444.8	1506.0	1555.6	1608.5
27.5°	1393.3	1390.7	1411.9	1405.5	1448.7	1448.0	1467.4	1508.6	1577.6	1642.6	1723.2
30°	1468.6	1462.2	1475.1	1485.4	1534.4	1536.3	1553.7	1594.3	1663.9	1758.6	1856.6
32.5°	1590.4	1595.6	1594.3	1581.4	1643.3	1647.2	1689.7	1755.4	1826.3	1940.4	2055.1
35°	1846.9	1846.3	1811.5	1778.6	1784.4	1796.0	1851.4	1970.0	2115.0	2384.4	2485.6
37.5°	2165.9	2181.4	2120.2	2025.4	1994.5	1992.6	2040.9	2216.8	2454.0	2974.0	3014.6
40°	2588.0	2559.0	2484.9	2339.3	2261.3	2239.4	2255.5	2462.4	2826.5	3476.7	3438.0
42.5°	2874.8	2887.7	2806.5	2682.1	2566.1	2549.4	2511.3	2732.4	3229.9	3877.5	3769.3
45°	3218.9	3244.7	3155.1	3066.8	2949.5	2939.2	2881.9	3010.8	3617.8	4174.6	4028.3
47.5°	3518.6	3536.6	3393.6	3311.1	3226.6	3218.3	3164.1	3291.7	3954.9	4418.8	4240.3
50°	3841.4	3856.3	3700.3	3583.0	3503.1	3495.4	3465.1	3606.9	4296.4	4649.5	4415.6
52.5°	4253.2	4197.8	4008.3	3848.5	3759.6	3749.3	3764.1	3921.3	4619.9	4815.8	4556.1
55°	4735.3	4584.5	4342.2	4142.4	4009.6	4016.7	4034.1	4241.0	4895.1	4976.9	4661.8
57.5°	5025.9	5034.3	4852.5	4558.0	4306.1	4291.9	4279.0	4531.0	5118.7	5155.4	4764.3
60°	5414.5	5440.9	5417.1	5235.3	4895.7	4835.1	4625.1	4854.5	5355.8	5299.8	4825.5
62.5°	5709.6	5752.8	5892.0	5779.9	5819.2	5845.0	5266.9	5241.8	5573.7	5398.4	4838.4
65°	5642.0	5683.2	5968.7	6189.1	6604.1	6658.9	6513.2	5734.8	5743.8	5442.2	4797.1
67.5°	5129.6	5172.2	5520.2	6113.7	7104.2	7166.0	7010.7	6590.6	5828.2	5444.1	4692.1
69°	4625.1	4734.6	5078.7	5896.5	7244.0	7278.8	7090.0	6823.8	5826.9	5436.4	4543.9
70°	4323.5	4411.1	4801.6	5645.8	7171.2	7187.9	7042.3	6917.9	5805.0	5368.7	4404.7
72.5°	3476.0	3456.7	3872.4	4786.2	6818.7	6808.4	6824.5	6791.6	5765.0	5121.3	3817.6
75°	2519.7	2526.8	2911.5	3766.0	5928.7	6004.1	6326.3	6521.6	5376.5	4466.5	2809.1
77.5°	1790.9	1805.7	2136.3	2883.2	4886.7	4922.1	5513.1	5720.6	4523.9	3514.1	1531.2
80°	1198.6	1211.5	1520.8	2126.0	3732.5	3813.1	4457.5	4503.9	3423.8	2174.9	277.1
82.5°	749.5	755.9	995.6	1514.4	2723.4	2762.7	3061.0	2971.5	1779.9	484.6	82.5
85°	429.8	437.6	610.3	958.9	1720.0	1734.8	1933.9	1469.9	426.6	65.1	45.1
87.5°	123.1	132.1	252.6	413.7	775.9	770.1	721.8	481.4	69.0	29.6	21.3
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°	1189.0	1189.0	1189.0	1189.0	1189.0	1189.0	1189.0	1189.0	1189.0	1189.0	1189.0
2.5°	1178.7	1188.3	1176.7	1168.3	1158.7	1160.0	1160.0	1149.0	1149.0	1164.5	1166.4
5°	1193.5	1200.6	1180.6	1164.5	1143.9	1139.3	1126.5	1113.6	1109.1	1122.6	1124.5
7.5°	1207.0	1203.1	1179.3	1153.5	1126.5	1105.2	1089.1	1067.8	1058.1	1073.6	1076.2
10°	1220.5	1208.9	1184.5	1153.5	1110.3	1079.4	1055.6	1017.6	1007.2	1015.0	1018.8
12.5°	1257.9	1242.5	1214.1	1160.6	1111.6	1069.7	1023.4	975.7	951.2	960.2	965.4
15°	1313.3	1290.1	1260.5	1194.8	1127.1	1066.5	1003.4	928.0	883.5	878.4	879.6
17.5°	1379.1	1354.6	1315.3	1235.4	1149.0	1066.5	973.1	878.4	804.9	783.6	786.2
20°	1445.5	1418.4	1386.8	1282.4	1169.6	1050.4	935.7	812.0	706.9	658.6	658.6
22.5°	1521.5	1502.2	1449.3	1319.8	1176.7	1025.3	878.4	722.4	593.5	522.6	520.1
25°	1620.1	1602.7	1505.4	1349.4	1170.9	993.7	804.2	616.7	456.9	384.7	380.9
27.5°	1730.3	1696.1	1560.2	1371.3	1150.9	942.8	705.6	482.7	318.3	250.0	246.8
30°	1852.7	1803.1	1602.0	1367.5	1114.2	857.1	589.7	324.1	185.6	140.5	140.5
32.5°	2028.7	1938.4	1651.7	1358.5	1063.3	754.6	433.1	192.0	92.8	71.5	71.5
35°	2372.1	2202.7	1727.1	1334.0	980.8	619.3	272.6	86.4	50.9	50.3	50.3
37.5°	2832.9	2543.6	1848.2	1297.9	867.4	450.5	136.0	47.7	47.7	49.0	48.3
40°	3237.0	2910.9	2010.0	1243.1	743.0	284.2	61.9	45.8	48.3	50.3	50.3
42.5°	3537.3	3194.4	2166.6	1163.2	593.5	145.0	51.6	44.5	46.4	47.0	47.7
45°	3791.8	3432.9	2291.6	1062.0	434.3	69.0	51.6	43.8	43.8	43.8	44.5
47.5°	3987.1	3607.5	2377.3	942.8	270.0	58.0	54.1	43.2	40.6	39.3	40.0
50°	4139.8	3729.3	2407.6	810.0	133.4	58.6	52.8	40.6	35.4	36.1	36.7
52.5°	4247.4	3827.9	2375.4	644.4	69.0	61.9	53.5	39.3	31.6	33.5	33.5
55°	4347.3	3852.4	2293.5	458.2	61.9	62.5	53.5	36.1	27.1	30.9	32.9
57.5°	4372.4	3851.7	2165.3	288.1	66.4	59.3	50.9	35.4	25.8	30.9	32.2
60°	4409.8	3820.2	1989.3	175.9	69.6	54.8	47.7	33.5	24.5	25.8	27.1
62.5°	4369.2	3766.0	1725.8	116.6	67.0	50.9	46.4	32.2	21.3	19.3	18.7
65°	4290.0	3584.9	1302.4	94.1	62.5	49.6	41.9	28.4	17.4	12.2	11.6
67.5°	4105.0	3240.8	688.9	88.9	58.6	49.0	37.4	26.4	14.2	7.1	6.4
69°	3887.2	2892.2	312.5	90.2	68.3	49.0	38.0	23.2	12.9	5.2	4.5
70°	3659.7	2573.8	142.4	87.6	74.1	51.6	37.4	21.3	11.6	4.5	3.9
72.5°	2822.6	1600.1	97.3	78.0	82.5	50.3	37.4	20.0	11.0	2.6	1.9
75°	1675.5	397.0	87.6	61.9	78.6	61.2	45.1	21.9	9.7	1.3	0.0
77.5°	434.3	110.8	74.1	47.0	69.6	69.0	52.2	21.9	9.7	0.0	0.0
80°	112.1	85.1	63.8	30.3	54.8	67.0	42.5	24.5	7.7	0.0	0.0
82.5°	67.0	61.9	69.6	18.7	43.8	45.1	25.1	17.4	8.4	0.0	0.0
85°	38.7	53.5	49.0	14.2	8.4	4.5	10.3	19.3	8.4	0.0	0.0
87.5°	22.6	29.0	11.0	1.9	1.9	1.3	0.6	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)