

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-AP-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-AP-7050-HSS
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD, GRAY
PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12877.8 lumens
Efficiency: N/A
Efficacy: 134.1 lumens/watt
Luminous Opening: Rectangular (W 1.12' x L: 1.1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - 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



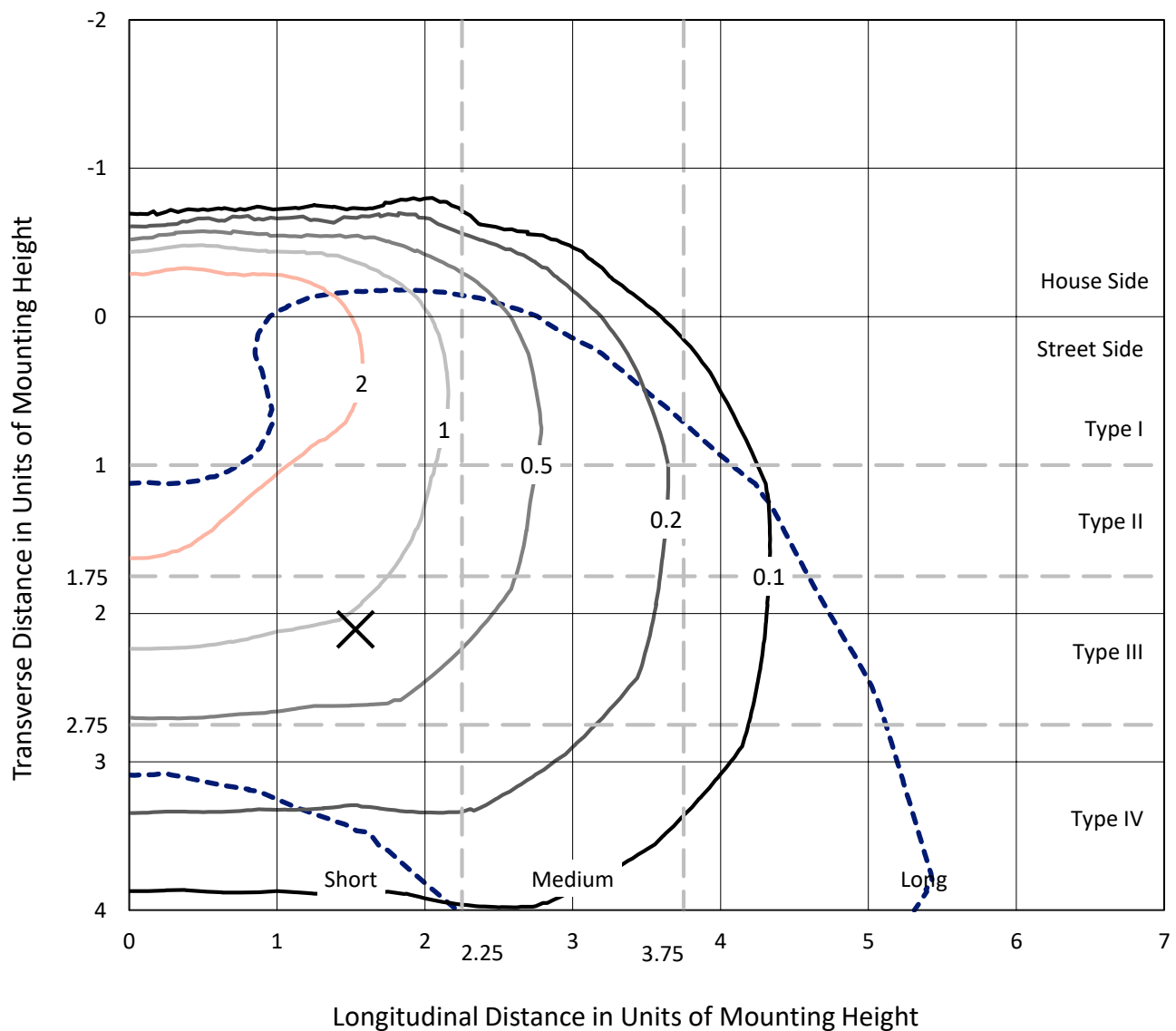
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Iso-Footcandle Lines of Horizontal Illumination

✗ Max cd

--- 1/2 Max cd

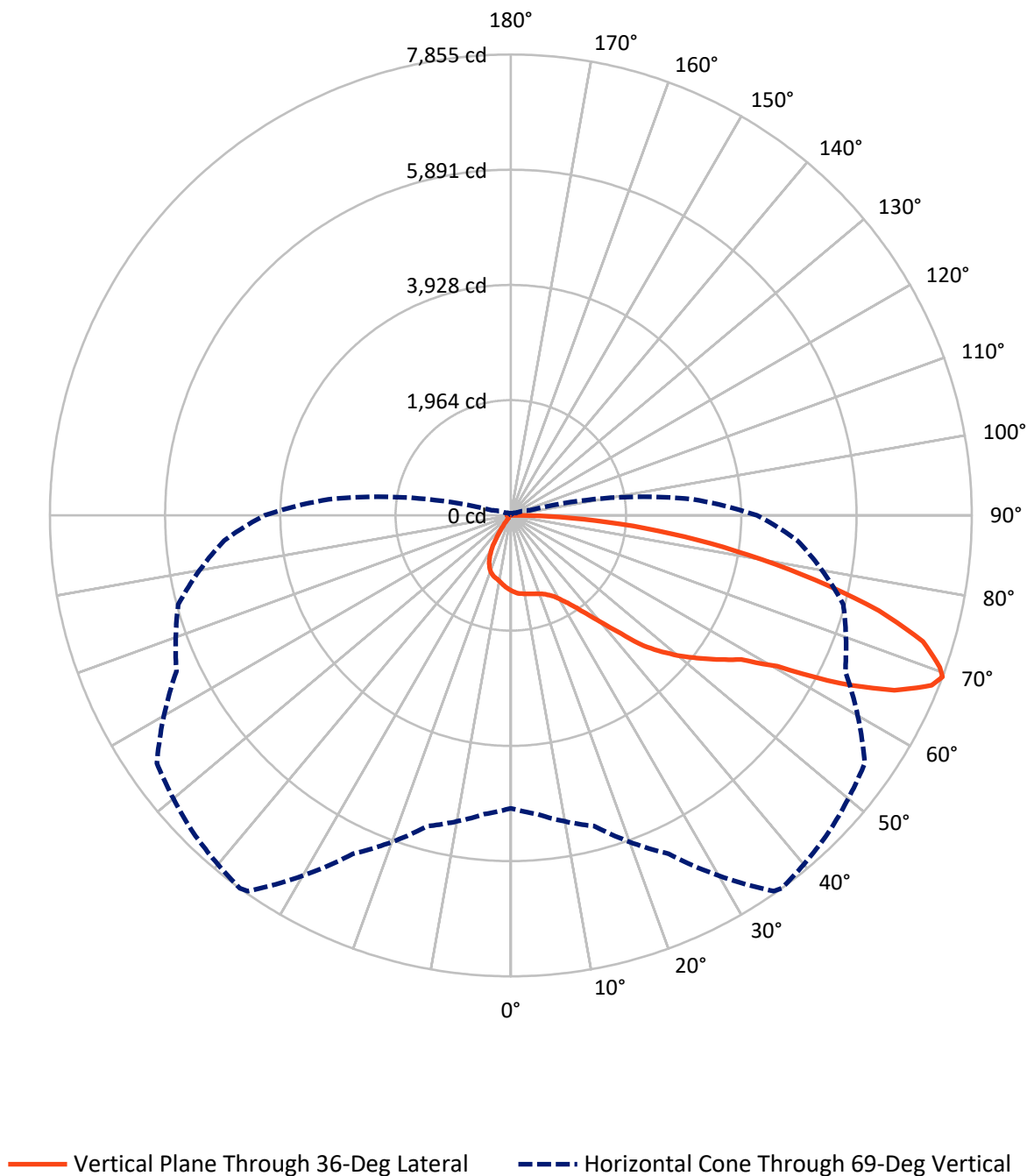


Based on 20 foot mounting height. Maximum calculated value = 4.2 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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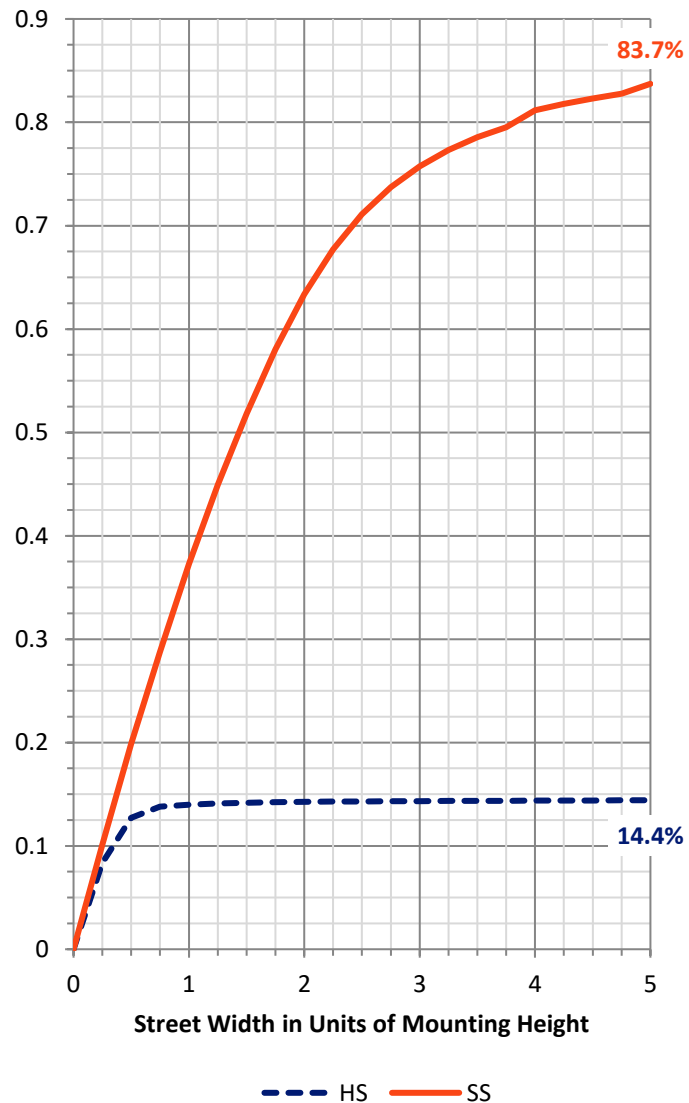
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1877.7	0.0	1877.7
	% Fixture	14.6	0.0	14.6
Street Side	Lumens	11000.1	0.0	11000.1
	% Fixture	85.4	0.0	85.4
Total	Lumens	12877.8	0.0	12877.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.8	0.9
10°-20°	363.6	2.8
20°-30°	609.3	4.7
30°-40°	985.3	7.7
40°-50°	1737.9	13.5
50°-60°	2533.2	19.7
60°-70°	3345.8	26.0
70°-80°	2572.6	20.0
80°-90°	608.2	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°	12877.8	100.0
0°-180°	12877.8	100.0

Coefficient of Utilization



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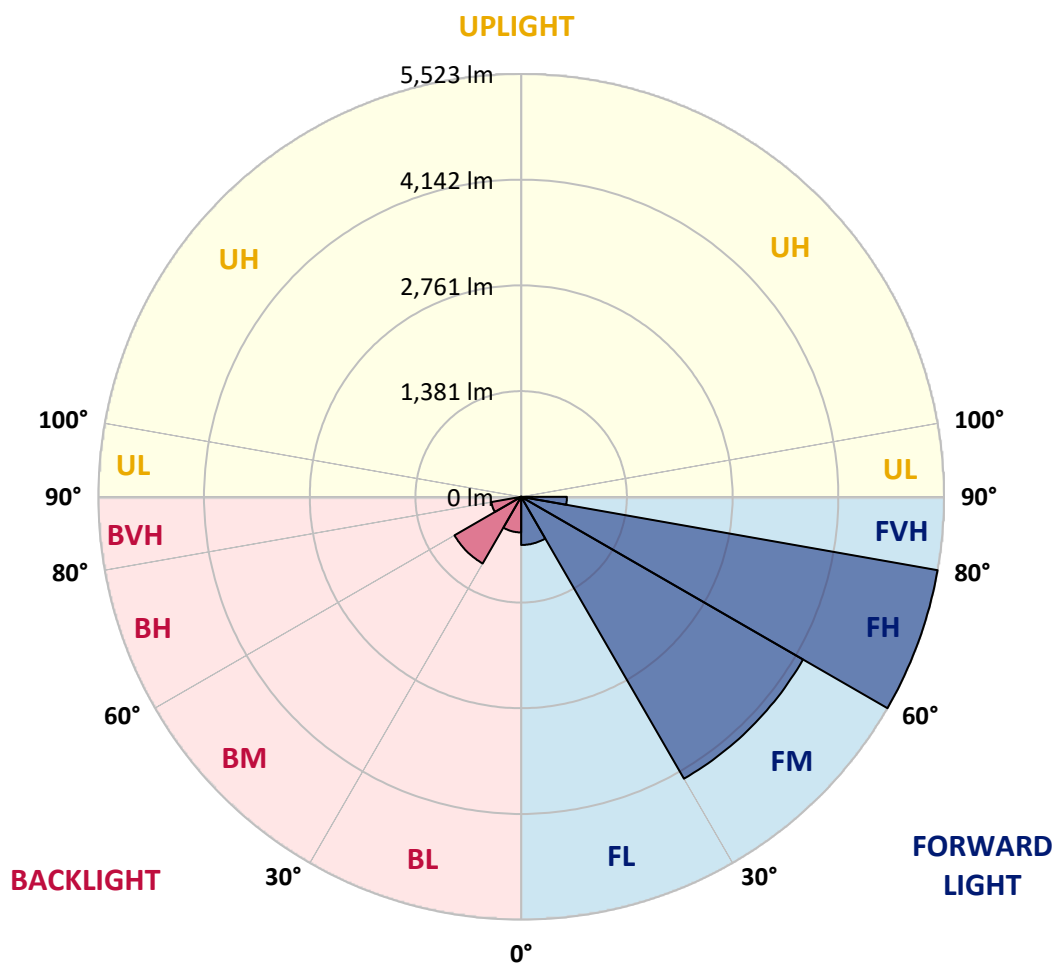
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	629.5	4.9			
FM	(30°-60°)	4251.0	33.0			
FH	(60°-80°)	5522.6	42.9			G3/7500
FVH	(80°-90°)	596.9	4.6			G4/750
BL	(0°-30°)	465.1	3.6	B1/500		
BM	(30°-60°)	1005.4	7.8	B2/2500		
BH	(60°-80°)	395.8	3.1	B1/500		G1/500
BVH	(80°-90°)	11.3	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	1283.1	1283.1	1283.1	1283.1	1283.1	1283.1	1283.1	1283.1	1283.1	1283.1	1283.1
2.5°	1330.4	1332.5	1326.3	1311.6	1308.1	1309.5	1310.9	1302.6	1293.5	1289.4	1279.6
5°	1354.0	1354.8	1351.9	1338.8	1335.3	1335.3	1333.9	1324.1	1315.1	1309.5	1295.6
7.5°	1360.3	1359.6	1361.0	1347.1	1350.5	1344.3	1348.5	1338.8	1330.4	1322.8	1310.2
10°	1370.0	1371.4	1370.0	1358.9	1360.3	1361.7	1361.0	1354.0	1353.4	1352.6	1331.1
12.5°	1365.2	1364.5	1368.6	1361.7	1371.4	1372.8	1388.2	1391.5	1395.0	1395.0	1372.8
15°	1361.7	1354.0	1371.4	1365.9	1386.0	1388.2	1411.0	1431.9	1436.1	1437.5	1429.2
17.5°	1366.5	1365.2	1389.5	1379.0	1407.5	1402.7	1424.9	1461.8	1481.3	1491.1	1495.9
20°	1387.4	1393.0	1413.2	1402.7	1426.4	1426.4	1450.7	1490.3	1527.2	1551.6	1556.5
22.5°	1419.4	1421.5	1445.2	1434.7	1453.4	1455.6	1476.4	1523.1	1573.1	1614.1	1635.0
25°	1453.4	1452.1	1471.6	1472.3	1497.3	1503.6	1521.6	1559.2	1625.3	1678.8	1735.8
27.5°	1503.6	1500.8	1523.7	1516.8	1563.4	1562.7	1583.5	1628.0	1702.4	1772.7	1859.6
30°	1585.0	1578.0	1591.9	1603.0	1655.9	1658.0	1676.8	1720.5	1795.7	1897.9	2003.6
32.5°	1716.4	1721.9	1720.5	1706.7	1773.4	1777.6	1823.5	1894.4	1970.9	2094.0	2217.8
35°	1993.1	1992.5	1954.9	1919.5	1925.7	1938.2	1998.0	2125.9	2282.5	2573.1	2682.4
37.5°	2337.4	2354.1	2288.0	2185.8	2152.4	2150.3	2202.5	2392.3	2648.3	3209.5	3253.4
40°	2792.9	2761.7	2681.7	2524.5	2440.3	2416.7	2434.1	2657.3	3050.3	3751.9	3710.2
42.5°	3102.4	3116.3	3028.7	2894.5	2769.3	2751.2	2710.2	2948.7	3485.6	4184.5	4067.7
45°	3473.8	3501.6	3404.9	3309.6	3183.1	3172.0	3110.1	3249.1	3904.2	4505.1	4347.3
47.5°	3797.2	3816.6	3662.3	3573.2	3482.1	3473.1	3414.7	3552.4	4268.0	4768.7	4576.0
50°	4145.6	4161.6	3993.3	3866.7	3780.5	3772.1	3739.4	3892.5	4636.5	5017.7	4765.2
52.5°	4590.0	4530.1	4325.7	4153.2	4057.3	4046.2	4062.1	4231.8	4985.7	5197.1	4916.9
55°	5110.2	4947.4	4685.9	4470.3	4327.0	4334.8	4353.5	4576.8	5282.6	5370.9	5030.9
57.5°	5423.8	5432.8	5236.8	4918.9	4647.0	4631.7	4617.8	4889.7	5524.0	5563.6	5141.5
60°	5843.1	5871.6	5846.0	5649.8	5283.3	5218.0	4991.3	5238.8	5779.8	5719.3	5207.5
62.5°	6161.7	6208.3	6358.4	6237.5	6279.9	6307.7	5683.9	5656.8	6014.9	5825.7	5221.4
65°	6088.7	6133.2	6441.2	6679.1	7127.0	7186.1	7028.9	6188.8	6198.5	5873.1	5177.0
67.5°	5535.8	5581.6	5957.2	6597.8	7666.7	7733.3	7565.8	7112.4	6289.7	5875.1	5063.6
69°	4991.3	5109.5	5480.8	6363.3	7817.5	7855.1	7651.3	7364.1	6288.3	5866.8	4903.6
70°	4665.8	4760.3	5181.7	6092.8	7739.0	7757.1	7599.9	7465.6	6264.6	5793.8	4753.4
72.5°	3751.3	3730.4	4179.0	5165.1	7358.6	7347.4	7364.8	7329.3	6221.5	5526.7	4119.8
75°	2719.2	2726.8	3142.1	4064.2	6398.1	6479.5	6827.2	7037.9	5802.1	4820.1	3031.4
77.5°	1932.6	1948.6	2305.4	3111.4	5273.6	5311.8	5949.5	6173.5	4882.0	3792.3	1652.4
80°	1293.5	1307.5	1641.3	2294.3	4028.0	4115.0	4810.5	4860.5	3694.9	2347.1	299.0
82.5°	808.8	815.8	1074.4	1634.3	2939.0	2981.4	3303.4	3206.7	1920.9	523.0	89.0
85°	463.8	472.2	658.6	1034.8	1856.2	1872.1	2087.0	1586.4	460.4	70.3	48.6
87.5°	132.8	142.6	272.6	446.4	837.3	831.1	778.9	519.5	74.4	32.0	23.0
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°	1283.1	1283.1	1283.1	1283.1	1283.1	1283.1	1283.1	1283.1	1283.1	1283.1	1283.1
2.5°	1272.0	1282.4	1269.9	1260.9	1250.5	1251.8	1251.8	1240.0	1240.0	1256.7	1258.7
5°	1288.0	1295.6	1274.1	1256.7	1234.5	1229.6	1215.6	1201.7	1196.8	1211.5	1213.6
7.5°	1302.6	1298.4	1272.6	1244.9	1215.6	1192.7	1175.3	1152.3	1141.9	1158.6	1161.4
10°	1317.1	1304.6	1278.2	1244.9	1198.2	1164.8	1139.2	1098.2	1087.0	1095.3	1099.5
12.5°	1357.5	1340.8	1310.2	1252.5	1199.7	1154.4	1104.4	1052.9	1026.5	1036.3	1041.8
15°	1417.3	1392.3	1360.3	1289.4	1216.3	1150.9	1082.8	1001.5	953.5	947.9	949.2
17.5°	1488.3	1461.8	1419.4	1333.1	1240.0	1150.9	1050.1	947.9	868.6	845.7	848.4
20°	1559.9	1530.7	1496.6	1383.9	1262.2	1133.6	1009.8	876.2	762.9	710.8	710.8
22.5°	1642.0	1621.1	1564.1	1424.3	1269.9	1106.4	947.9	779.6	640.5	564.0	561.2
25°	1748.4	1729.5	1624.6	1456.3	1263.6	1072.4	868.0	665.5	493.1	415.2	411.0
27.5°	1867.3	1830.4	1683.7	1479.9	1242.1	1017.4	761.5	520.9	343.5	269.9	266.4
30°	1999.4	1945.9	1728.9	1475.7	1202.5	925.0	636.4	349.8	200.3	151.6	151.6
32.5°	2189.2	2091.9	1782.4	1466.1	1147.4	814.3	467.3	207.2	100.2	77.2	77.2
35°	2560.0	2377.0	1863.8	1439.6	1058.5	668.4	294.1	93.2	54.9	54.3	54.3
37.5°	3057.2	2744.9	1994.5	1400.7	936.1	486.1	146.7	51.5	51.5	52.9	52.1
40°	3493.2	3141.3	2169.1	1341.5	801.8	306.7	66.8	49.4	52.1	54.3	54.3
42.5°	3817.3	3447.3	2338.1	1255.2	640.5	156.4	55.6	48.0	50.0	50.8	51.5
45°	4092.1	3704.7	2473.1	1146.1	468.7	74.4	55.6	47.3	47.3	47.3	48.0
47.5°	4302.8	3893.1	2565.5	1017.4	291.4	62.6	58.4	46.6	43.8	42.4	43.1
50°	4467.6	4024.5	2598.2	874.2	143.9	63.3	57.0	43.8	38.3	38.9	39.6
52.5°	4583.7	4131.0	2563.5	695.4	74.4	66.8	57.8	42.4	34.1	36.1	36.1
55°	4691.5	4157.4	2475.1	494.4	66.8	67.4	57.8	38.9	29.3	33.4	35.5
57.5°	4718.7	4156.7	2336.8	310.9	71.6	64.0	54.9	38.3	27.8	33.4	34.8
60°	4759.0	4122.6	2146.8	189.8	75.1	59.1	51.5	36.1	26.4	27.8	29.3
62.5°	4715.2	4064.2	1862.5	125.9	72.3	54.9	50.0	34.8	23.0	20.9	20.1
65°	4629.6	3868.7	1405.5	101.5	67.4	53.5	45.2	30.6	18.8	13.2	12.5
67.5°	4430.1	3497.5	743.4	95.9	63.3	52.9	40.4	28.5	15.3	7.6	7.0
69°	4195.0	3121.2	337.3	97.4	73.8	52.9	41.0	25.0	13.9	5.5	4.9
70°	3949.5	2777.6	153.7	94.5	80.0	55.6	40.4	23.0	12.5	4.9	4.1
72.5°	3046.0	1726.8	105.0	84.2	89.0	54.3	40.4	21.5	11.9	2.8	2.1
75°	1808.2	428.4	94.5	66.8	84.8	66.0	48.6	23.6	10.4	1.4	0.0
77.5°	468.7	119.7	80.0	50.8	75.1	74.4	56.3	23.6	10.4	0.0	0.0
80°	121.0	91.8	68.9	32.6	59.1	72.3	45.9	26.4	8.4	0.0	0.0
82.5°	72.3	66.8	75.1	20.1	47.3	48.6	27.1	18.8	9.0	0.0	0.0
85°	41.8	57.8	52.9	15.3	9.0	4.9	11.1	20.9	9.0	0.0	0.0
87.5°	24.4	31.3	11.9	2.1	2.1	1.4	0.7	2.8	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)