

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-AP-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-AP-HSS
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K 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: 12647.8 lumens
Efficiency: N/A
Efficacy: 131.7 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

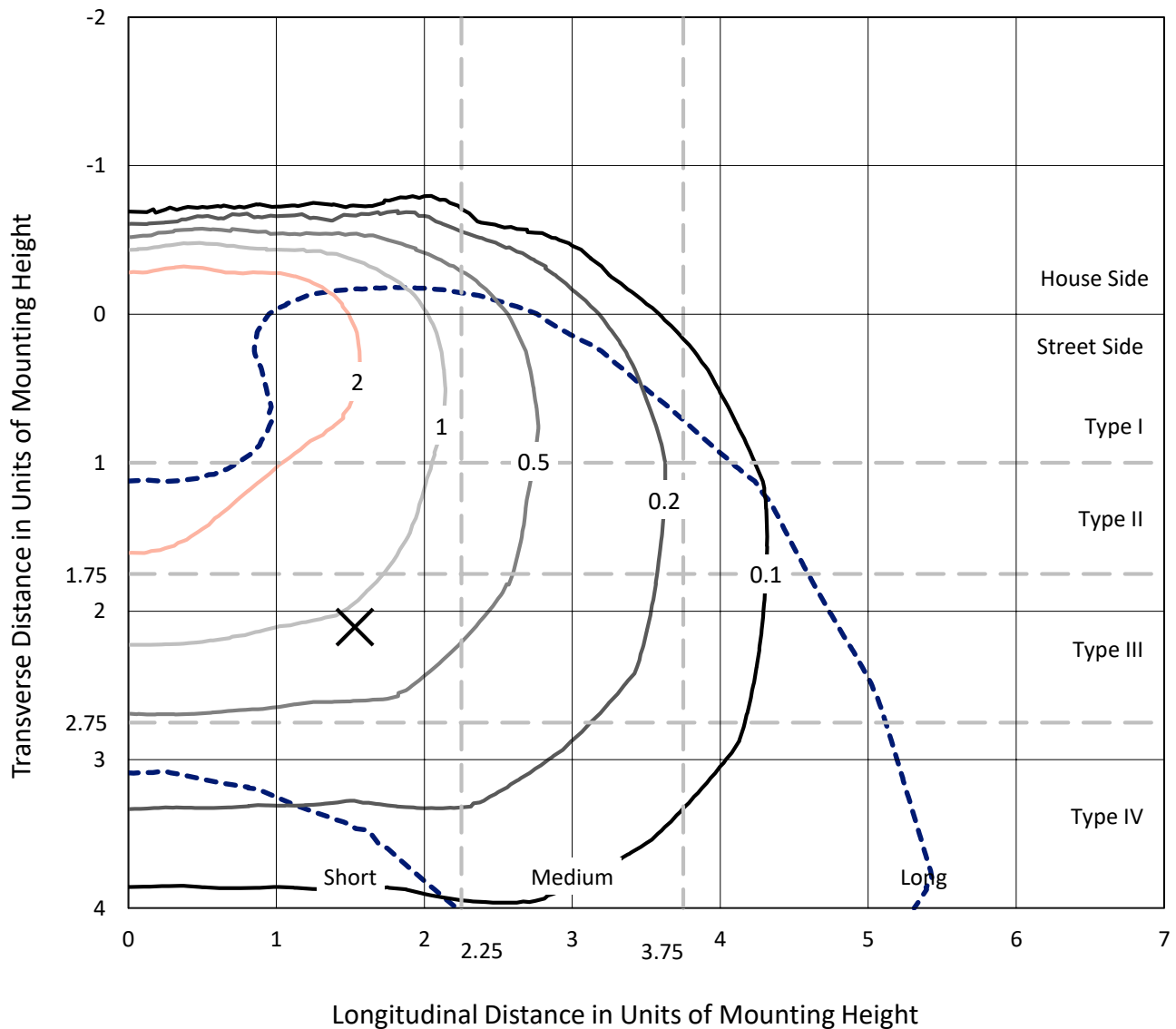


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

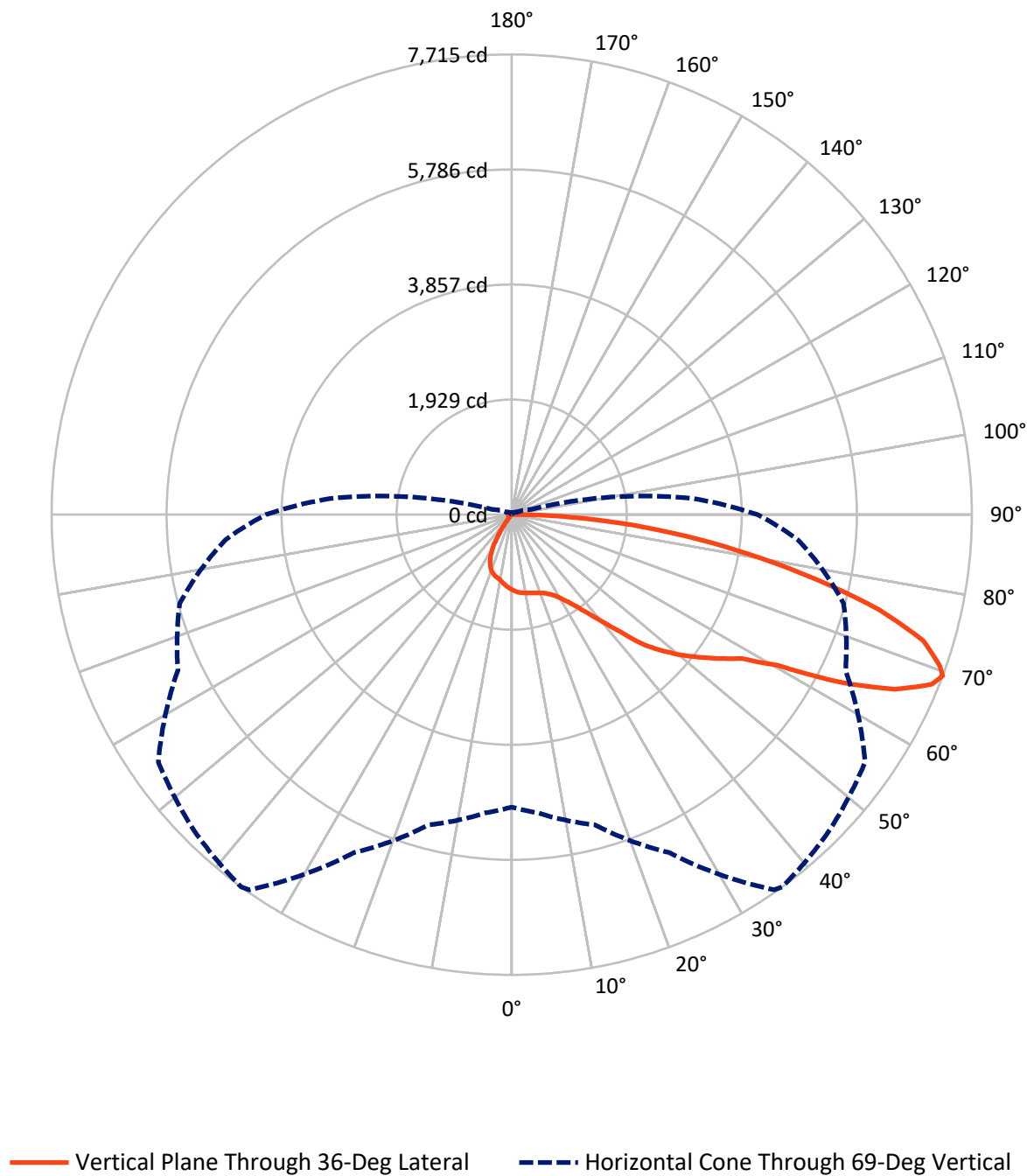


Based on 20 foot mounting height. Maximum calculated value = 4.1 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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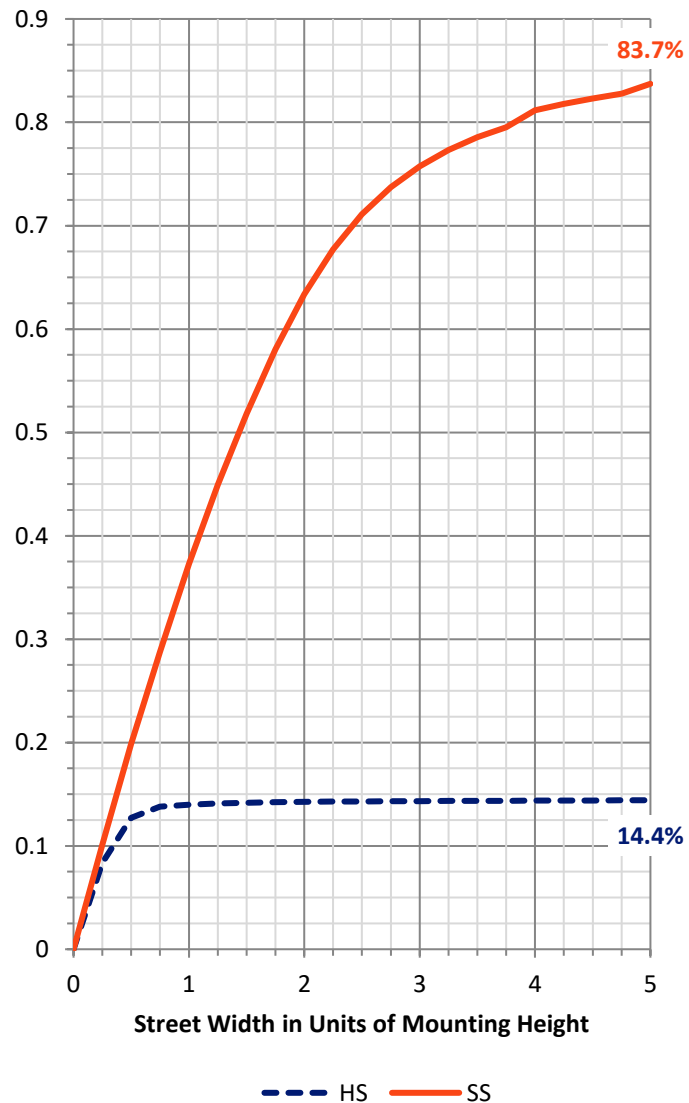
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1844.2	0.0	1844.2
	% Fixture	14.6	0.0	14.6
Street Side	Lumens	10803.6	0.0	10803.6
	% Fixture	85.4	0.0	85.4
Total	Lumens	12647.8	0.0	12647.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.6	0.9
10°-20°	357.1	2.8
20°-30°	598.4	4.7
30°-40°	967.7	7.7
40°-50°	1706.9	13.5
50°-60°	2488.0	19.7
60°-70°	3286.1	26.0
70°-80°	2526.7	20.0
80°-90°	597.4	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°	12647.8	100.0
0°-180°	12647.8	100.0

Coefficient of Utilization



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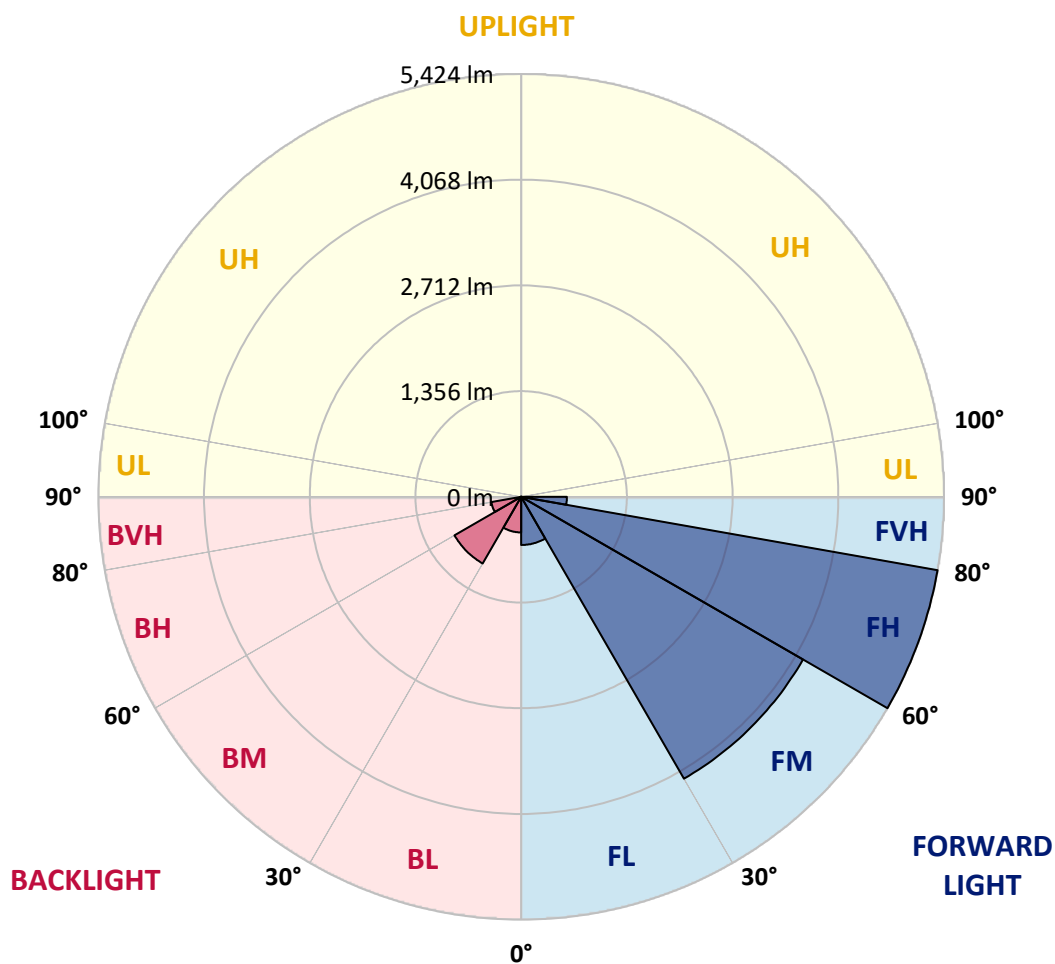
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	618.2	4.9			
FM	(30°-60°)	4175.1	33.0			
FH	(60°-80°)	5424.0	42.9			G3/7500
FVH	(80°-90°)	586.3	4.6			G4/750
BL	(0°-30°)	456.8	3.6	B1/500		
BM	(30°-60°)	987.5	7.8	B1/1000		
BH	(60°-80°)	388.8	3.1	B1/500		G1/500
BVH	(80°-90°)	11.1	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°	1260.2	1260.2	1260.2	1260.2	1260.2	1260.2	1260.2	1260.2	1260.2	1260.2	1260.2
2.5°	1306.6	1308.7	1302.5	1288.2	1284.8	1286.2	1287.5	1279.3	1270.4	1266.4	1256.7
5°	1329.9	1330.5	1327.8	1314.8	1311.4	1311.4	1310.0	1300.5	1291.6	1286.2	1272.5
7.5°	1336.0	1335.4	1336.6	1323.1	1326.5	1320.3	1324.3	1314.8	1306.6	1299.1	1286.8
10°	1345.5	1346.9	1345.5	1334.6	1336.0	1337.4	1336.6	1329.9	1329.2	1328.5	1307.3
12.5°	1340.8	1340.1	1344.2	1337.4	1346.9	1348.3	1363.3	1366.7	1370.1	1370.1	1348.3
15°	1337.4	1329.9	1346.9	1341.5	1361.2	1363.3	1385.8	1406.4	1410.4	1411.8	1403.6
17.5°	1342.2	1340.8	1364.7	1354.4	1382.4	1377.7	1399.5	1435.7	1454.8	1464.5	1469.2
20°	1362.6	1368.1	1387.9	1377.7	1400.9	1400.9	1424.8	1463.7	1500.0	1523.8	1528.6
22.5°	1394.1	1396.1	1419.3	1409.1	1427.6	1429.6	1450.0	1495.8	1545.0	1585.3	1605.7
25°	1427.6	1426.2	1445.3	1446.0	1470.6	1476.8	1494.5	1531.3	1596.2	1648.8	1704.8
27.5°	1476.8	1474.0	1496.5	1489.7	1535.5	1534.7	1555.3	1599.0	1672.1	1741.0	1826.4
30°	1556.6	1549.8	1563.5	1574.4	1626.3	1628.3	1646.8	1689.8	1763.6	1863.9	1967.8
32.5°	1685.7	1691.2	1689.8	1676.1	1741.7	1745.9	1790.9	1860.5	1935.7	2056.6	2178.2
35°	1957.5	1956.9	1920.0	1885.1	1891.3	1903.6	1962.3	2088.0	2241.7	2527.2	2634.5
37.5°	2295.6	2312.1	2247.2	2146.7	2114.0	2112.0	2163.1	2349.6	2601.0	3152.1	3195.2
40°	2743.0	2712.3	2633.7	2479.4	2396.8	2373.5	2390.6	2609.9	2995.8	3685.0	3643.9
42.5°	3047.0	3060.7	2974.6	2842.8	2719.8	2702.1	2661.7	2896.1	3423.4	4109.8	3995.1
45°	3411.7	3439.1	3344.1	3250.5	3126.2	3115.3	3054.5	3191.1	3834.5	4424.7	4269.6
47.5°	3729.4	3748.4	3596.9	3509.4	3419.9	3411.1	3353.6	3488.9	4191.8	4683.5	4494.3
50°	4071.5	4087.3	3921.9	3797.6	3712.9	3704.8	3672.7	3823.0	4553.8	4928.0	4680.1
52.5°	4508.0	4449.2	4248.4	4079.0	3984.8	3973.9	3989.6	4156.2	4896.6	5104.3	4829.0
55°	5018.9	4859.1	4602.3	4390.5	4249.8	4257.3	4275.7	4495.0	5188.3	5275.0	4941.0
57.5°	5327.0	5335.9	5143.2	4831.0	4564.0	4549.0	4535.3	4802.4	5425.3	5464.2	5049.7
60°	5738.8	5766.8	5741.6	5548.9	5189.0	5124.7	4902.1	5145.3	5676.6	5617.3	5114.5
62.5°	6051.6	6097.4	6244.9	6126.1	6167.8	6195.1	5582.4	5555.8	5907.6	5721.8	5128.2
65°	5980.0	6023.6	6326.2	6559.8	6999.7	7057.8	6903.3	6078.3	6087.9	5768.2	5084.4
67.5°	5436.9	5482.0	5850.9	6479.9	7529.7	7595.2	7430.6	6985.4	6177.3	5770.2	4973.2
69°	4902.1	5018.2	5382.9	6249.7	7677.9	7714.8	7514.7	7232.5	6175.9	5762.0	4816.1
70°	4582.5	4675.3	5089.2	5984.0	7600.8	7618.5	7464.1	7332.3	6152.7	5690.3	4668.5
72.5°	3684.2	3663.8	4104.4	5072.9	7227.1	7216.2	7233.3	7198.4	6110.3	5428.1	4046.3
75°	2670.6	2678.2	3085.9	3991.6	6283.8	6363.7	6705.2	6912.2	5698.6	4734.0	2977.4
77.5°	1898.2	1913.9	2264.3	3055.9	5179.4	5216.9	5843.3	6063.3	4794.9	3724.6	1622.9
80°	1270.4	1284.1	1611.9	2253.3	3956.1	4041.5	4724.5	4773.7	3628.9	2305.2	293.7
82.5°	794.4	801.2	1055.2	1605.1	2886.5	2928.2	3244.4	3149.5	1886.5	513.6	87.4
85°	455.5	463.8	646.9	1016.3	1823.0	1838.7	2049.7	1557.9	452.2	69.0	47.8
87.5°	130.5	140.0	267.7	438.5	822.4	816.2	765.0	510.2	73.1	31.4	22.6
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°	1260.2	1260.2	1260.2	1260.2	1260.2	1260.2	1260.2	1260.2	1260.2	1260.2	1260.2
2.5°	1249.3	1259.5	1247.2	1238.3	1228.1	1229.5	1229.5	1217.8	1217.8	1234.3	1236.3
5°	1265.0	1272.5	1251.3	1234.3	1212.4	1207.5	1194.0	1180.3	1175.5	1189.8	1191.9
7.5°	1279.3	1275.2	1249.9	1222.6	1194.0	1171.4	1154.3	1131.8	1121.5	1137.9	1140.7
10°	1293.6	1281.3	1255.5	1222.6	1176.8	1144.1	1118.8	1078.6	1067.5	1075.8	1079.8
12.5°	1333.2	1316.9	1286.8	1230.1	1178.2	1133.8	1084.7	1034.1	1008.2	1017.7	1023.2
15°	1392.0	1367.4	1336.0	1266.4	1194.6	1130.4	1063.5	983.6	936.4	931.0	932.3
17.5°	1461.7	1435.7	1394.1	1309.4	1217.8	1130.4	1031.4	931.0	853.1	830.5	833.3
20°	1532.1	1503.4	1469.9	1359.2	1239.7	1113.3	991.7	860.6	749.2	698.1	698.1
22.5°	1612.6	1592.2	1536.1	1398.9	1247.2	1086.7	931.0	765.7	629.1	553.9	551.3
25°	1717.1	1698.7	1595.6	1430.2	1241.0	1053.2	852.4	653.6	484.3	407.7	403.7
27.5°	1833.9	1797.7	1653.7	1453.4	1219.8	999.3	747.9	511.6	337.4	265.0	261.6
30°	1963.7	1911.1	1698.0	1449.4	1180.9	908.4	625.0	343.5	196.7	148.9	148.9
32.5°	2150.2	2054.5	1750.6	1439.9	1127.0	799.8	459.0	203.5	98.4	75.8	75.8
35°	2514.2	2334.6	1830.6	1413.9	1039.5	656.4	288.9	91.6	53.9	53.3	53.3
37.5°	3002.6	2696.0	1958.9	1375.6	919.4	477.5	144.1	50.6	50.6	51.9	51.2
40°	3430.9	3085.3	2130.4	1317.6	787.5	301.2	65.6	48.5	51.2	53.3	53.3
42.5°	3749.2	3385.7	2296.4	1232.9	629.1	153.7	54.7	47.2	49.2	49.8	50.6
45°	4018.9	3638.5	2428.9	1125.6	460.3	73.1	54.7	46.4	46.4	46.4	47.2
47.5°	4225.9	3823.6	2519.7	999.3	286.2	61.5	57.3	45.8	43.0	41.7	42.4
50°	4387.8	3952.7	2551.8	858.5	141.4	62.1	56.0	43.0	37.5	38.3	38.9
52.5°	4501.8	4057.2	2517.7	683.0	73.1	65.6	56.7	41.7	33.5	35.5	35.5
55°	4607.7	4083.2	2430.9	485.6	65.6	66.2	56.7	38.3	28.7	32.8	34.9
57.5°	4634.3	4082.4	2295.0	305.4	70.4	62.9	53.9	37.5	27.3	32.8	34.1
60°	4673.9	4049.0	2108.5	186.4	73.8	58.1	50.6	35.5	26.0	27.3	28.7
62.5°	4630.9	3991.6	1829.2	123.6	71.0	53.9	49.2	34.1	22.6	20.5	19.8
65°	4547.0	3799.6	1380.4	99.7	66.2	52.6	44.4	30.1	18.4	12.9	12.3
67.5°	4350.9	3434.9	730.2	94.2	62.1	51.9	39.6	28.0	15.1	7.5	6.8
69°	4120.0	3065.4	331.2	95.6	72.4	51.9	40.3	24.6	13.7	5.5	4.8
70°	3878.9	2728.0	150.9	92.8	78.5	54.7	39.6	22.6	12.3	4.8	4.1
72.5°	2991.7	1695.9	103.1	82.7	87.4	53.3	39.6	21.2	11.7	2.8	2.0
75°	1775.9	420.8	92.8	65.6	83.3	64.9	47.8	23.2	10.3	1.4	0.0
77.5°	460.3	117.4	78.5	49.8	73.8	73.1	55.3	23.2	10.3	0.0	0.0
80°	118.8	90.2	67.6	32.1	58.1	71.0	45.0	26.0	8.2	0.0	0.0
82.5°	71.0	65.6	73.8	19.8	46.4	47.8	26.6	18.4	8.9	0.0	0.0
85°	41.0	56.7	51.9	15.1	8.9	4.8	10.9	20.5	8.9	0.0	0.0
87.5°	24.0	30.7	11.7	2.0	2.0	1.4	0.6	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)