

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: P286971

Luminaire Tested: **USSL-C027-D-U-T4-BZ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P286971
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1810-004-8)
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-7030
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K LEDS AND TYPE IV OPTICS, BRONZE PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12901 lumens
Efficiency: N/A
Efficacy: 134.4 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

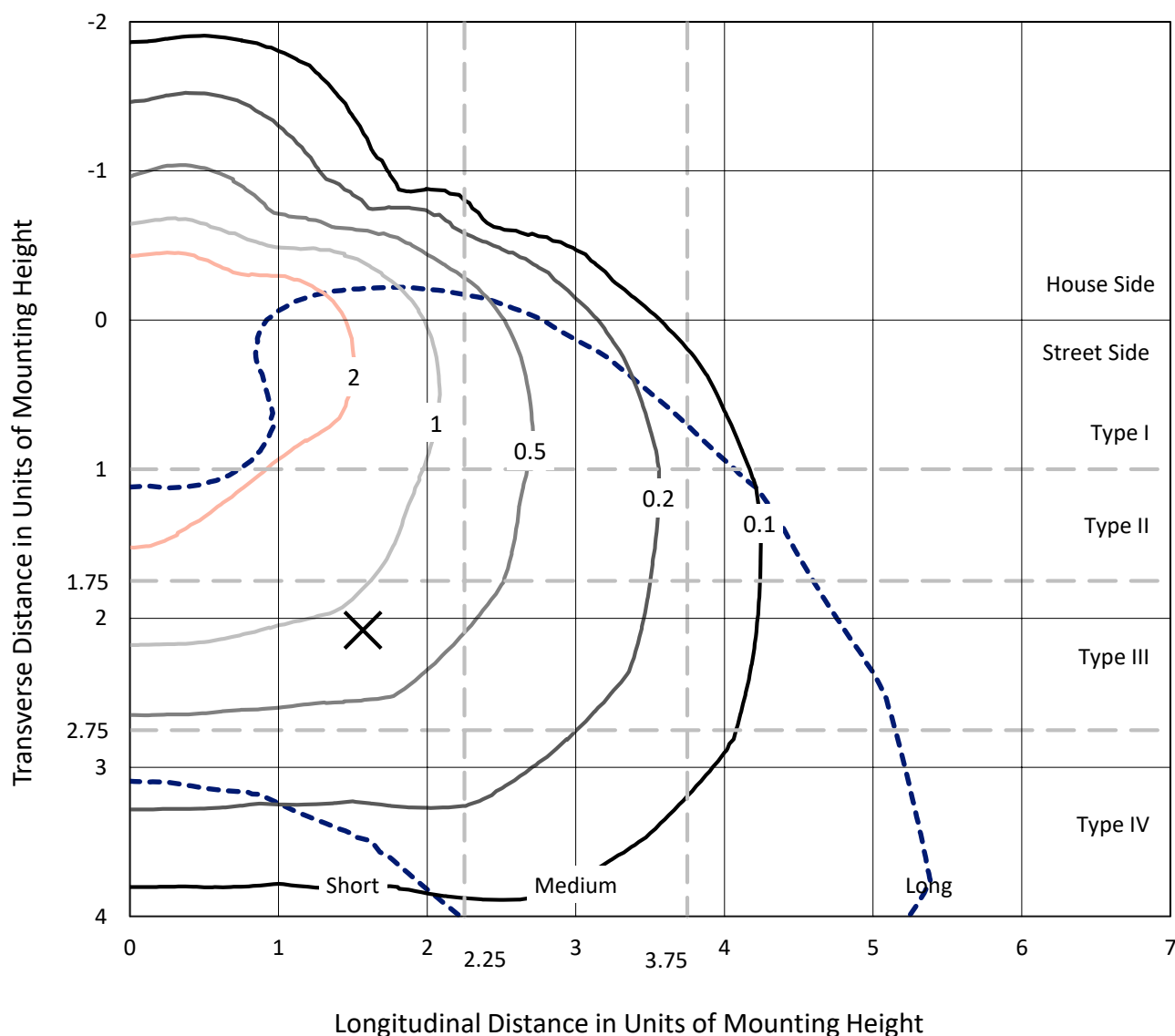


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

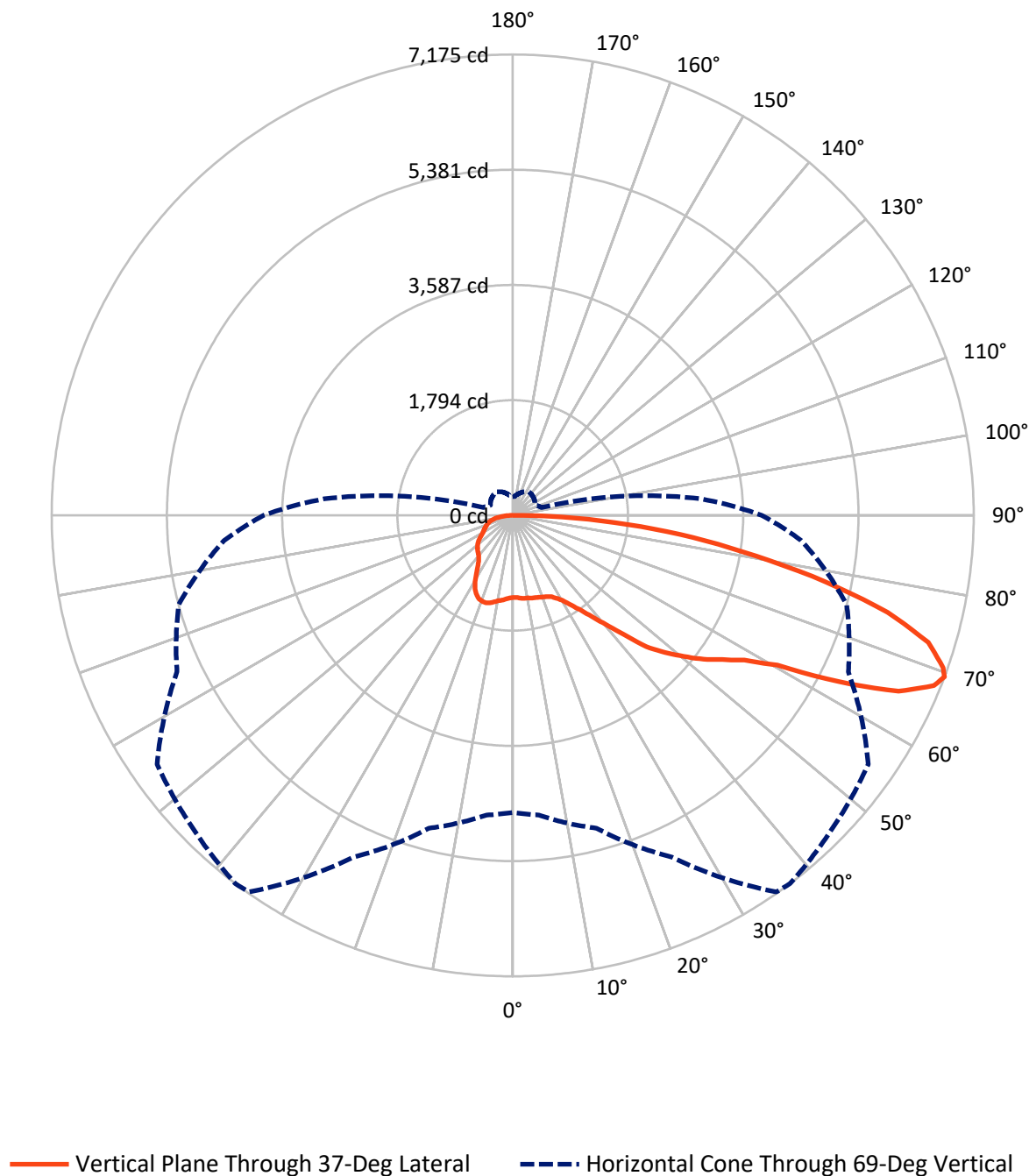


Based on 20 foot mounting height. Maximum calculated value = 3.9 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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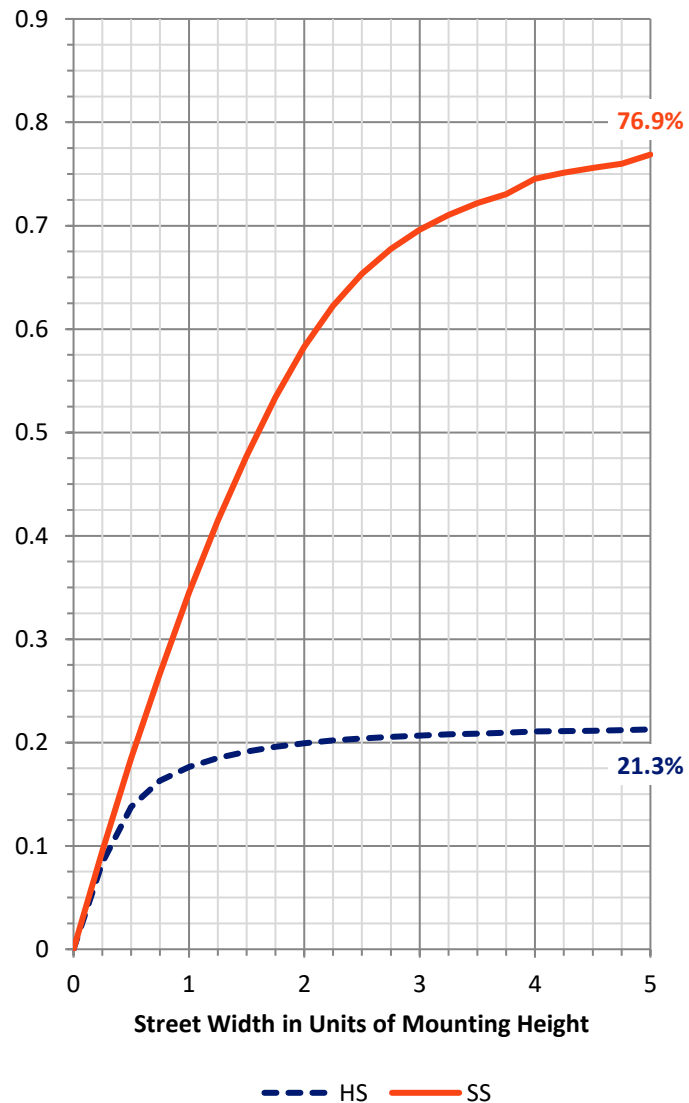
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2781.9	0.0	2781.9
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	10119.1	0.0	10119.1
	% Fixture	78.4	0.0	78.4
Total	Lumens	12901.0	0.0	12901.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.7	1.0
10°-20°	389.8	3.0
20°-30°	666.0	5.2
30°-40°	1055.9	8.2
40°-50°	1794.1	13.9
50°-60°	2543.7	19.7
60°-70°	3237.0	25.1
70°-80°	2484.2	19.3
80°-90°	605.5	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°	12901.0	100.0
0°-180°	12901.0	100.0

Coefficient of Utilization



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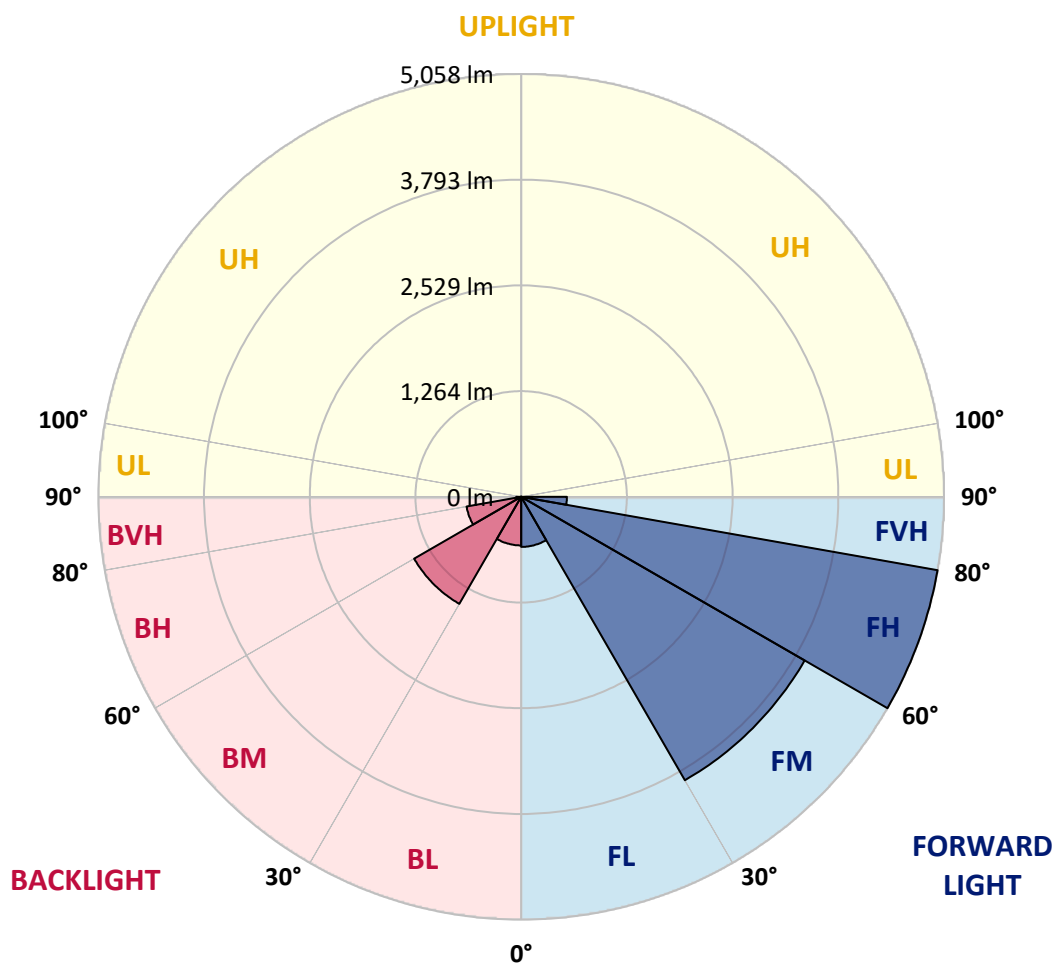
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	598.8	4.6			
FM	(30°-60°)	3915.2	30.3			
FH	(60°-80°)	5057.7	39.2			G3/7500
FVH	(80°-90°)	547.3	4.2			G4/750
BL	(0°-30°)	581.7	4.5	B2/1000		
BM	(30°-60°)	1478.4	11.5	B2/2500		
BH	(60°-80°)	663.5	5.1	B2/1000		G2/1000
BVH	(80°-90°)	58.2	0.5			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°	37°	45°	55°	65°	75°	85°
0°	1277.5	1277.5	1277.5	1277.5	1277.5	1277.5	1277.5	1277.5	1277.5	1277.5	1277.5
2.5°	1302.2	1295.3	1295.3	1280.7	1280.7	1279.4	1282.6	1275.0	1273.7	1272.5	1268.0
5°	1318.7	1316.1	1307.3	1296.5	1301.6	1294.6	1294.6	1284.5	1285.1	1283.9	1276.9
7.5°	1314.9	1319.3	1318.7	1306.0	1302.2	1304.1	1304.7	1305.4	1299.0	1298.4	1293.4
10°	1326.9	1322.5	1324.4	1304.7	1309.8	1305.4	1312.3	1311.7	1311.7	1311.7	1306.0
12.5°	1301.6	1306.6	1308.5	1311.7	1321.2	1321.2	1332.6	1337.0	1346.5	1352.8	1345.2
15°	1294.6	1290.2	1308.5	1306.6	1328.8	1326.9	1345.2	1369.9	1378.1	1395.2	1399.7
17.5°	1290.8	1299.7	1313.6	1313.0	1334.5	1338.9	1364.2	1392.1	1415.5	1443.9	1454.1
20°	1301.6	1301.6	1316.1	1322.5	1355.4	1355.4	1381.9	1416.7	1453.4	1495.2	1516.7
22.5°	1335.7	1337.0	1350.3	1343.3	1364.2	1371.8	1394.6	1433.8	1490.8	1536.3	1580.6
25°	1355.4	1363.0	1378.8	1376.9	1397.1	1402.8	1430.0	1480.6	1542.0	1602.1	1676.2
27.5°	1400.9	1401.6	1414.2	1410.4	1458.5	1461.0	1485.7	1524.3	1613.5	1682.5	1786.3
30°	1466.7	1470.5	1478.7	1490.1	1540.1	1537.6	1554.0	1605.3	1691.4	1784.4	1925.5
32.5°	1609.7	1601.5	1591.4	1593.3	1642.6	1656.6	1688.2	1748.9	1855.2	1967.9	2120.4
35°	1853.3	1848.3	1811.6	1768.6	1785.6	1802.1	1854.0	1970.4	2134.3	2398.8	2534.8
37.5°	2171.6	2186.8	2117.8	2026.1	1988.8	1992.5	2040.6	2198.2	2465.8	2965.7	3051.8
40°	2574.7	2551.9	2467.1	2344.4	2250.1	2230.5	2245.6	2447.5	2836.6	3465.6	3482.1
42.5°	2868.9	2872.1	2775.9	2686.7	2563.3	2526.6	2501.3	2692.4	3220.1	3851.0	3792.7
45°	3210.0	3234.6	3129.6	3037.9	2951.2	2913.2	2875.2	2992.3	3616.8	4157.2	4057.2
47.5°	3499.1	3503.6	3368.2	3299.8	3203.6	3186.6	3149.9	3262.5	3939.5	4397.7	4261.0
50°	3767.4	3813.6	3637.7	3540.3	3459.9	3449.2	3462.4	3568.7	4254.0	4605.8	4425.5
52.5°	4228.1	4157.2	3951.6	3768.1	3718.1	3718.7	3716.2	3889.5	4579.3	4781.1	4560.9
55°	4652.7	4514.7	4287.6	4081.3	3959.2	3960.4	3981.9	4193.9	4848.8	4950.0	4653.3
57.5°	4918.4	4994.3	4786.2	4476.7	4245.8	4249.6	4249.0	4478.6	5080.4	5098.7	4724.8
60°	5306.3	5396.8	5342.4	5110.1	4800.1	4731.7	4559.0	4800.1	5318.3	5241.1	4800.7
62.5°	5589.8	5656.8	5808.1	5678.3	5696.1	5703.0	5160.1	5166.4	5488.5	5358.8	4817.2
65°	5590.4	5589.1	5940.3	6102.3	6524.3	6597.7	6369.3	5672.7	5649.9	5377.8	4753.9
67.5°	5056.3	5089.3	5458.8	6060.5	7015.4	7070.4	6924.2	6473.1	5733.4	5399.3	4651.4
69°	4624.8	4683.0	5040.5	5868.2	7154.6	7174.8	6977.4	6755.3	5763.8	5381.0	4508.4
70°	4339.4	4342.0	4706.4	5630.9	7084.3	7107.1	6973.6	6803.4	5737.8	5329.1	4395.8
72.5°	3424.5	3460.5	3783.2	4783.6	6739.5	6761.6	6715.4	6676.8	5700.5	5099.4	3780.7
75°	2503.8	2527.9	2822.7	3747.2	5893.5	6027.0	6229.5	6445.9	5312.0	4385.0	2846.1
77.5°	1755.9	1787.5	2091.3	2844.2	4800.1	4983.6	5439.8	5642.3	4500.8	3434.6	1587.0
80°	1172.5	1211.7	1487.6	2118.5	3654.2	3841.5	4369.2	4456.5	3442.8	2060.3	314.5
82.5°	746.0	756.1	975.7	1497.1	2717.7	2825.3	3016.3	2833.5	1824.9	469.5	93.0
85°	435.3	453.7	590.4	939.6	1675.5	1798.3	1881.8	1406.0	441.0	63.3	50.0
87.5°	163.9	171.5	239.2	406.2	784.0	772.0	749.2	474.6	79.1	29.1	22.8
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°	1277.5	1277.5	1277.5	1277.5	1277.5	1277.5	1277.5	1277.5	1277.5	1277.5	1277.5
2.5°	1267.4	1278.8	1273.1	1270.6	1269.3	1275.6	1287.7	1284.5	1282.6	1303.5	1305.4
5°	1276.9	1292.7	1292.1	1294.6	1290.8	1298.4	1304.1	1306.0	1307.9	1330.1	1333.2
7.5°	1294.6	1301.6	1304.1	1314.2	1308.5	1320.6	1330.7	1320.6	1330.1	1345.9	1349.0
10°	1310.4	1321.2	1321.8	1337.6	1332.0	1343.3	1345.9	1345.9	1353.5	1371.8	1368.7
12.5°	1348.4	1349.0	1371.2	1372.4	1380.0	1379.4	1374.3	1359.8	1352.8	1377.5	1379.4
15°	1403.5	1410.4	1438.9	1437.0	1427.5	1422.4	1400.9	1364.9	1344.0	1340.2	1340.2
17.5°	1469.9	1471.8	1508.5	1500.9	1485.7	1452.8	1417.4	1353.5	1294.6	1275.6	1264.2
20°	1524.3	1540.1	1585.1	1559.1	1532.5	1479.4	1401.6	1313.6	1222.5	1176.3	1164.3
22.5°	1598.3	1629.3	1655.3	1617.3	1561.6	1484.4	1381.9	1255.4	1135.8	1063.7	1051.0
25°	1703.4	1721.1	1719.8	1654.0	1566.1	1468.6	1325.6	1173.1	1027.0	947.9	924.5
27.5°	1811.6	1824.2	1771.1	1681.9	1550.9	1423.7	1252.2	1065.6	916.9	846.0	828.3
30°	1934.3	1921.7	1810.9	1669.8	1511.0	1344.6	1149.1	947.2	821.3	758.7	749.2
32.5°	2123.5	2058.4	1846.4	1642.0	1438.9	1235.8	1023.2	862.4	759.3	685.9	673.3
35°	2451.9	2314.0	1909.7	1617.3	1351.6	1113.6	915.0	803.6	704.3	617.6	601.1
37.5°	2876.5	2656.9	2028.6	1574.9	1248.4	994.7	846.0	754.2	662.5	566.3	548.0
40°	3292.9	3015.7	2188.7	1532.5	1151.0	913.7	806.8	734.6	646.0	547.3	527.7
42.5°	3596.6	3303.0	2363.3	1492.0	1056.7	850.4	787.1	728.9	646.7	550.5	532.1
45°	3825.6	3530.8	2540.5	1436.4	946.6	801.7	768.8	723.2	646.0	553.7	530.9
47.5°	4027.5	3680.1	2662.6	1363.0	842.2	763.7	746.7	701.7	630.2	540.4	520.8
50°	4169.9	3821.8	2742.4	1299.0	761.8	730.2	715.6	666.9	592.9	514.4	491.7
52.5°	4270.5	3913.6	2751.9	1283.2	701.1	701.1	678.3	627.7	556.2	477.1	455.0
55°	4376.1	3966.1	2710.7	1224.4	637.2	653.0	638.5	601.1	532.1	451.2	437.2
57.5°	4371.7	3939.5	2628.5	983.9	565.7	582.1	587.8	577.7	523.3	457.5	444.2
60°	4400.8	3912.3	2491.8	684.0	498.0	523.3	547.3	547.3	495.4	417.6	403.7
62.5°	4385.6	3849.7	2200.1	482.2	444.2	484.7	515.1	491.7	441.0	375.2	366.4
65°	4286.9	3671.2	1650.2	409.4	425.2	462.5	490.4	454.3	402.4	339.2	332.8
67.5°	4106.6	3342.8	877.6	382.8	417.0	447.4	462.5	423.3	372.1	308.2	301.2
69°	3876.9	2945.5	470.8	379.0	415.7	434.7	445.5	405.0	349.3	293.0	293.0
70°	3639.0	2631.0	304.4	380.9	410.7	427.1	433.4	392.3	336.0	277.1	274.6
72.5°	2851.2	1692.0	254.4	361.9	395.5	403.1	402.4	358.8	294.9	210.7	214.5
75°	1730.6	516.3	243.0	330.9	370.2	386.0	375.9	301.2	229.7	176.5	176.5
77.5°	470.8	181.0	230.3	301.8	337.9	342.3	339.2	280.3	205.0	146.2	147.4
80°	140.5	140.5	214.5	251.8	286.6	306.9	291.1	246.1	164.5	77.2	79.7
82.5°	81.0	91.1	179.7	177.2	231.6	231.0	231.0	175.9	111.4	50.6	41.1
85°	43.0	64.5	97.4	101.9	108.8	122.8	166.4	151.9	84.2	22.8	5.1
87.5°	24.7	36.7	26.6	19.0	39.9	72.8	107.6	103.1	70.2	0.6	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)