

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: P286975

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P286975
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
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K LEDS AND TYPE IV OPTICS, BRONZE PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13140 lumens
Efficiency: N/A
Efficacy: 136.9 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

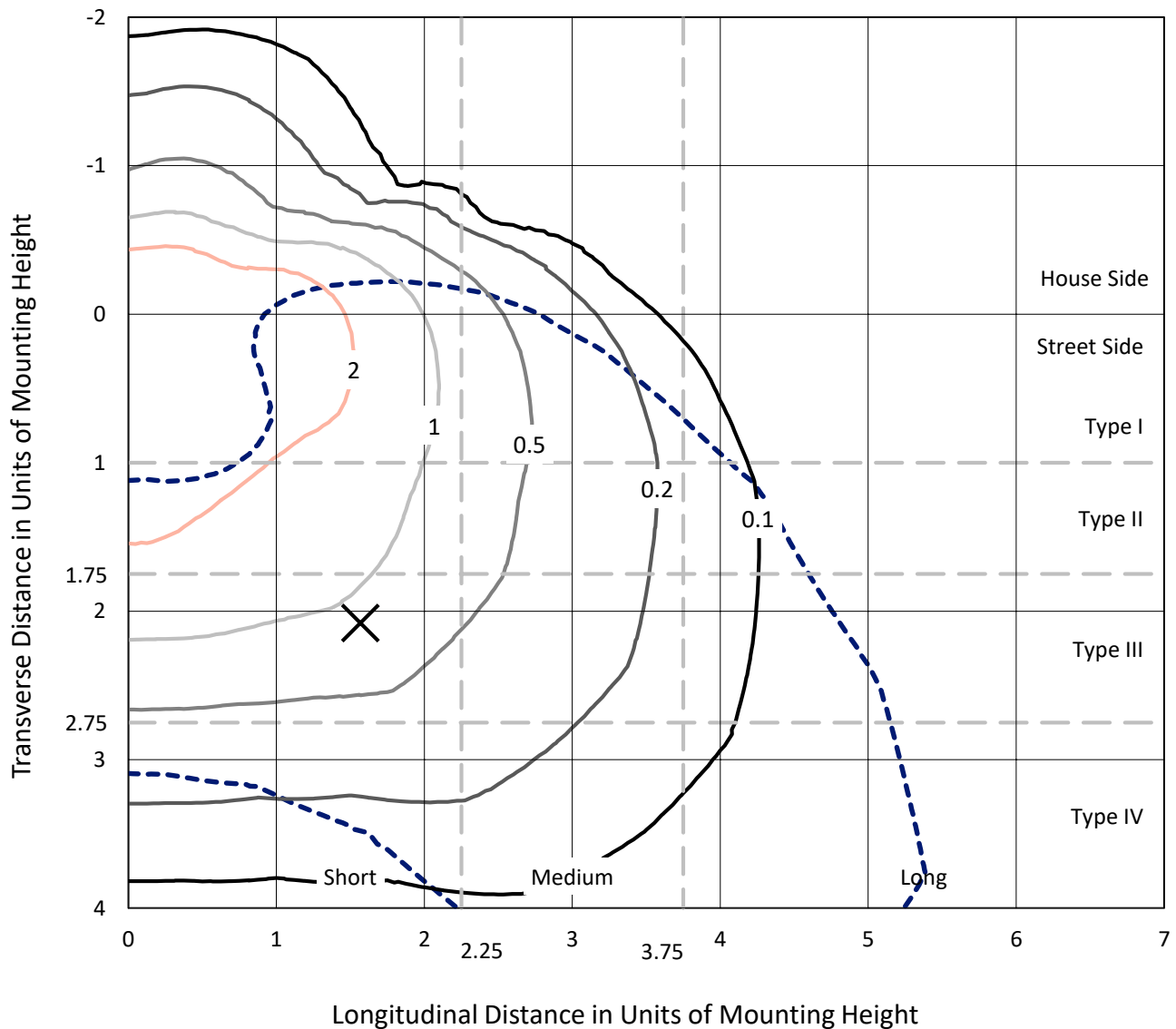


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

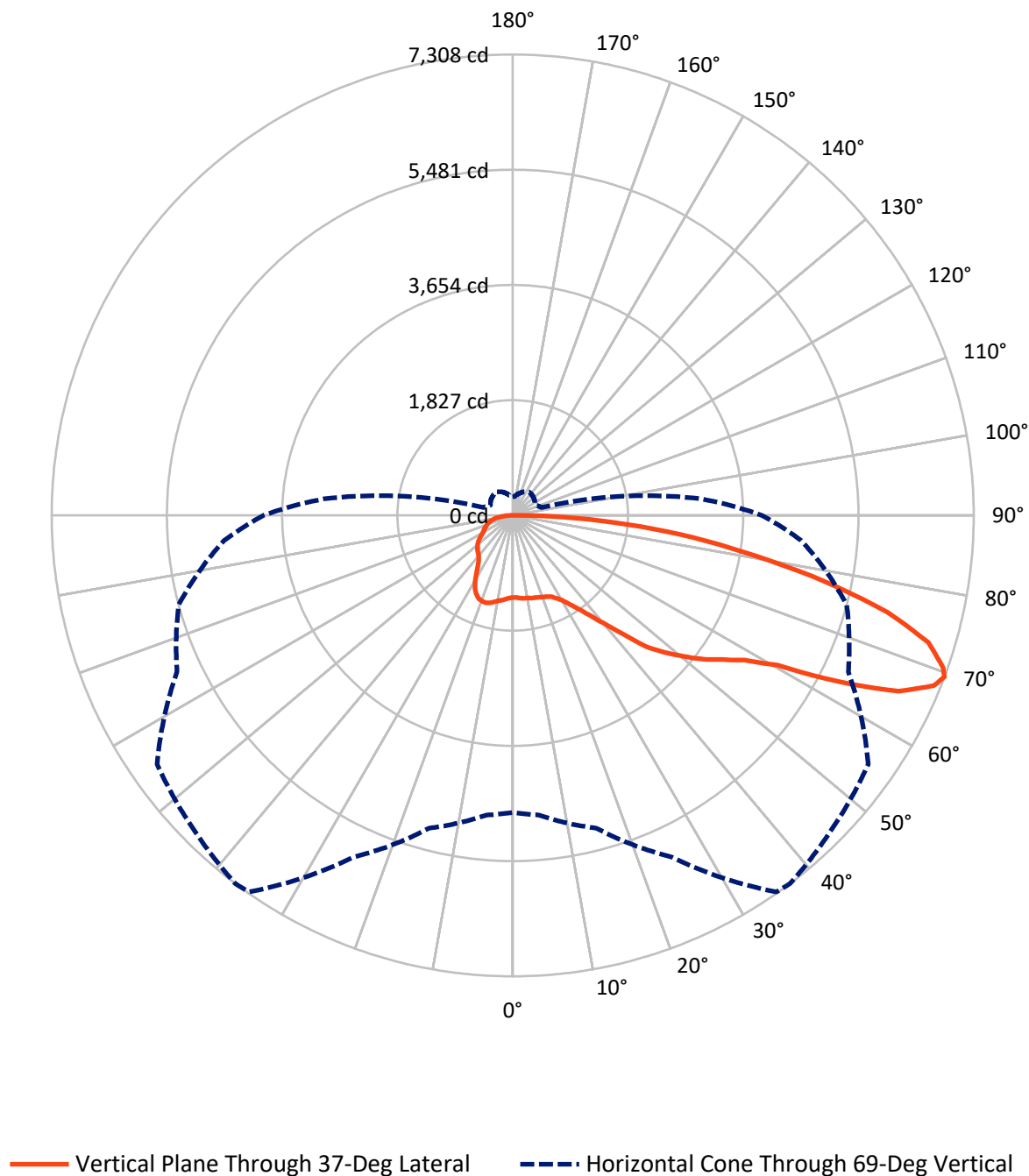


Based on 20 foot mounting height. Maximum calculated value = 3.9 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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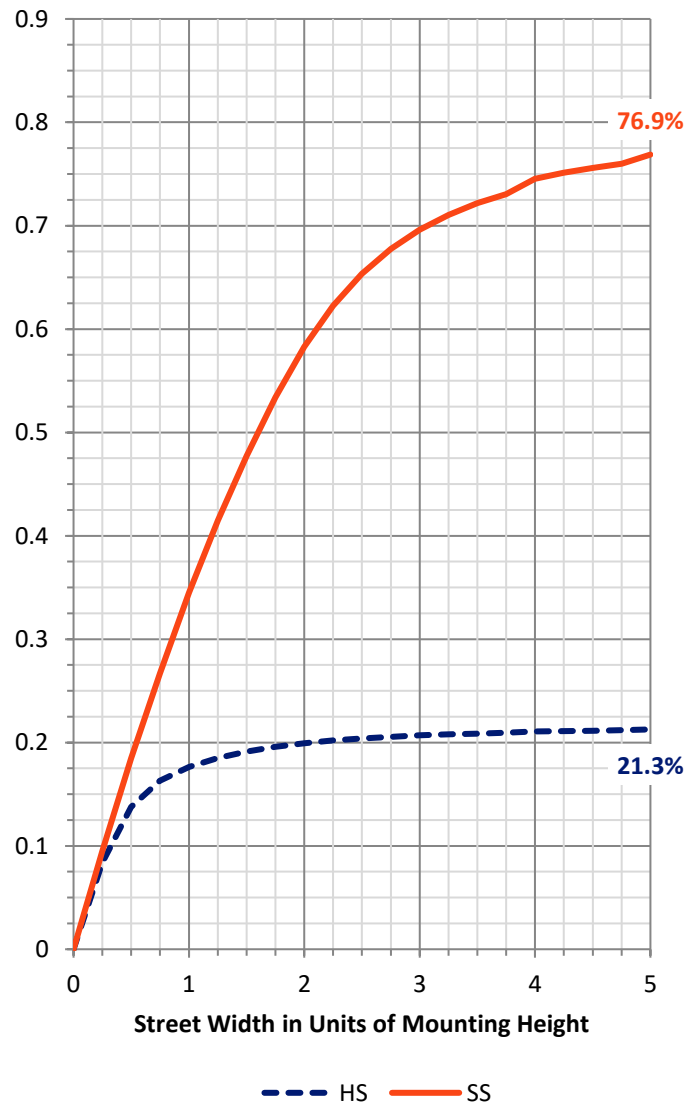
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2833.4	0.0	2833.4
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	10306.6	0.0	10306.6
	% Fixture	78.4	0.0	78.4
Total	Lumens	13140.0	0.0	13140.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.0	1.0
10°-20°	397.0	3.0
20°-30°	678.4	5.2
30°-40°	1075.4	8.2
40°-50°	1827.4	13.9
50°-60°	2590.8	19.7
60°-70°	3297.0	25.1
70°-80°	2530.2	19.3
80°-90°	616.7	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°	13140.0	100.0
0°-180°	13140.0	100.0

Coefficient of Utilization



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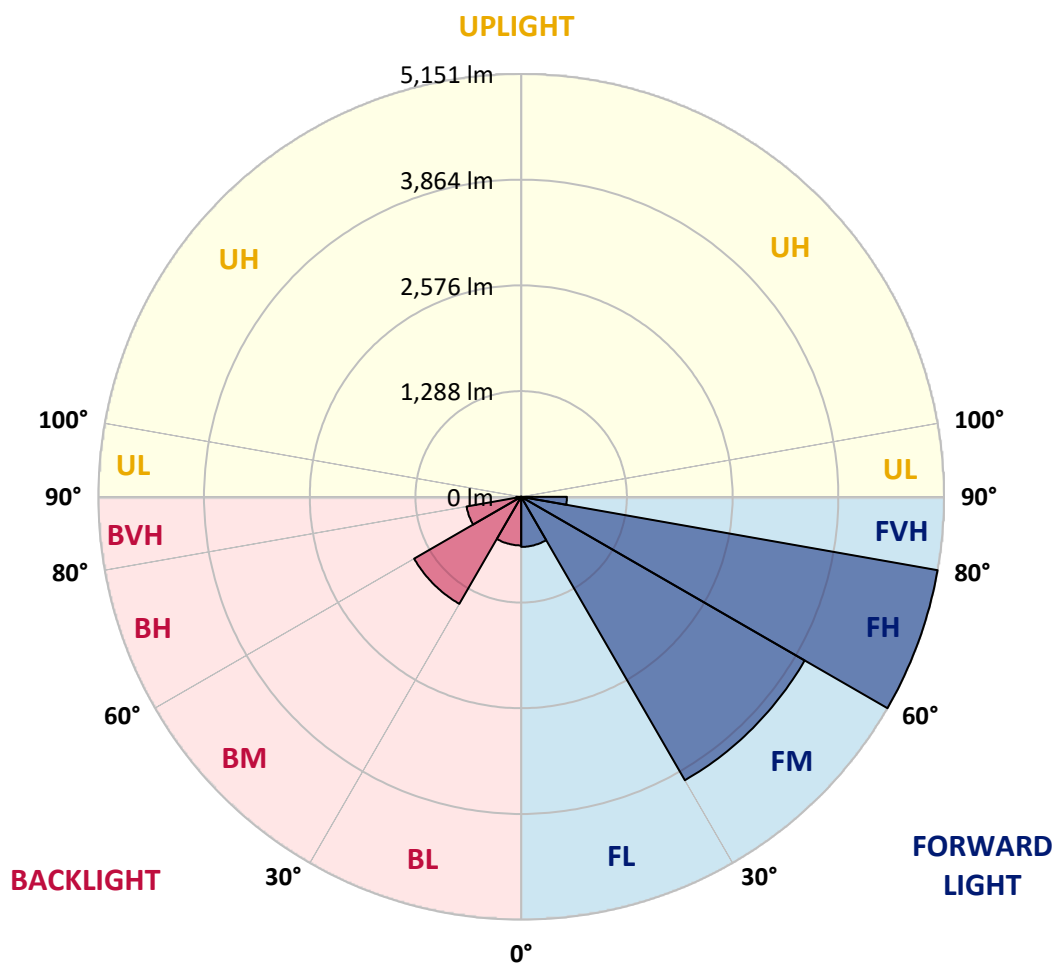
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	609.9	4.6			
FM	(30°-60°)	3987.8	30.3			
FH	(60°-80°)	5151.4	39.2			G3/7500
FVH	(80°-90°)	557.5	4.2			G4/750
BL	(0°-30°)	592.5	4.5	B2/1000		
BM	(30°-60°)	1505.8	11.5	B2/2500		
BH	(60°-80°)	675.8	5.1	B2/1000		G2/1000
BVH	(80°-90°)	59.3	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°	1301.2	1301.2	1301.2	1301.2	1301.2	1301.2	1301.2	1301.2	1301.2	1301.2	1301.2
2.5°	1326.3	1319.2	1319.2	1304.4	1304.4	1303.1	1306.4	1298.6	1297.3	1296.0	1291.5
5°	1343.1	1340.5	1331.5	1320.5	1325.7	1318.6	1318.6	1308.3	1308.9	1307.6	1300.6
7.5°	1339.2	1343.7	1343.1	1330.2	1326.3	1328.3	1328.9	1329.6	1323.1	1322.5	1317.3
10°	1351.5	1347.0	1348.9	1328.9	1334.1	1329.6	1336.6	1336.0	1336.0	1336.0	1330.2
12.5°	1325.7	1330.8	1332.8	1336.0	1345.7	1345.7	1357.3	1361.8	1371.4	1377.9	1370.2
15°	1318.6	1314.1	1332.8	1330.8	1353.4	1351.5	1370.2	1395.3	1403.7	1421.1	1425.6
17.5°	1314.7	1323.8	1337.9	1337.3	1359.2	1363.7	1389.5	1417.9	1441.7	1470.7	1481.0
20°	1325.7	1325.7	1340.5	1347.0	1380.5	1380.5	1407.5	1443.0	1480.4	1522.9	1544.8
22.5°	1360.5	1361.8	1375.3	1368.2	1389.5	1397.2	1420.4	1460.4	1518.4	1564.8	1609.9
25°	1380.5	1388.2	1404.3	1402.4	1423.0	1428.8	1456.5	1508.1	1570.6	1631.8	1707.2
27.5°	1426.9	1427.5	1440.4	1436.5	1485.5	1488.1	1513.2	1552.5	1643.4	1713.7	1819.4
30°	1493.9	1497.8	1506.1	1517.7	1568.7	1566.1	1582.8	1635.0	1722.7	1817.4	1961.1
32.5°	1639.6	1631.2	1620.9	1622.8	1673.1	1687.2	1719.5	1781.3	1889.6	2004.3	2159.6
35°	1887.7	1882.5	1845.1	1801.3	1818.7	1835.5	1888.3	2006.9	2173.8	2443.2	2581.8
37.5°	2211.8	2227.3	2157.1	2063.6	2025.6	2029.5	2078.4	2238.9	2511.5	3020.7	3108.3
40°	2622.4	2599.2	2512.8	2387.8	2291.8	2271.8	2287.3	2492.8	2889.2	3529.8	3546.6
42.5°	2922.1	2925.3	2827.3	2736.5	2610.8	2573.4	2547.6	2742.3	3279.7	3922.3	3863.0
45°	3269.4	3294.6	3187.6	3094.1	3005.8	2967.2	2928.5	3047.7	3683.8	4234.2	4132.4
47.5°	3564.0	3568.5	3430.6	3361.0	3263.0	3245.6	3208.2	3322.9	4012.5	4479.1	4339.9
50°	3837.2	3884.3	3705.1	3605.9	3524.0	3513.0	3526.6	3634.9	4332.8	4691.2	4507.5
52.5°	4306.4	4234.2	4024.8	3837.9	3787.0	3787.6	3785.0	3961.6	4664.1	4869.7	4645.4
55°	4738.8	4598.3	4367.0	4156.9	4032.5	4033.8	4055.7	4271.6	4938.6	5041.7	4739.5
57.5°	5009.5	5086.9	4874.8	4559.7	4324.4	4328.3	4327.7	4561.6	5174.5	5193.2	4812.3
60°	5404.6	5496.8	5441.3	5204.8	4889.0	4819.4	4643.5	4889.0	5416.8	5338.2	4889.7
62.5°	5693.3	5761.6	5915.7	5783.5	5801.6	5808.7	5255.7	5262.2	5590.2	5458.1	4906.4
65°	5694.0	5692.7	6050.4	6215.3	6645.2	6720.0	6487.3	5777.7	5754.5	5477.4	4842.0
67.5°	5150.0	5183.5	5559.9	6172.8	7145.3	7201.4	7052.5	6593.0	5839.6	5499.3	4737.6
69°	4710.5	4769.8	5133.9	5976.9	7287.1	7307.7	7106.7	6880.4	5870.5	5480.6	4591.9
70°	4419.8	4422.4	4793.6	5735.2	7215.6	7238.8	7102.8	6929.4	5844.1	5427.8	4477.2
72.5°	3487.9	3524.6	3853.3	4872.3	6864.3	6886.9	6839.8	6800.5	5806.1	5193.8	3850.8
75°	2550.2	2574.7	2875.0	3816.6	6002.7	6138.7	6344.9	6565.3	5410.4	4466.2	2898.9
77.5°	1788.4	1820.6	2130.0	2896.9	4889.0	5075.9	5540.6	5746.8	4584.2	3498.2	1616.4
80°	1194.2	1234.2	1515.2	2157.7	3721.9	3912.6	4450.1	4539.1	3506.6	2098.4	320.3
82.5°	759.8	770.2	993.8	1524.8	2768.0	2877.6	3072.2	2886.0	1858.7	478.2	94.7
85°	443.4	462.1	601.3	957.0	1706.6	1831.6	1916.7	1432.0	449.2	64.4	50.9
87.5°	166.9	174.7	243.6	413.8	798.5	786.3	763.1	483.4	80.6	29.6	23.2
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°	1301.2	1301.2	1301.2	1301.2	1301.2	1301.2	1301.2	1301.2	1301.2	1301.2	1301.2
2.5°	1290.9	1302.5	1296.7	1294.1	1292.8	1299.3	1311.5	1308.3	1306.4	1327.6	1329.6
5°	1300.6	1316.7	1316.0	1318.6	1314.7	1322.5	1328.3	1330.2	1332.1	1354.7	1357.9
7.5°	1318.6	1325.7	1328.3	1338.6	1332.8	1345.0	1355.3	1345.0	1354.7	1370.8	1374.0
10°	1334.7	1345.7	1346.3	1362.4	1356.6	1368.2	1370.8	1370.8	1378.5	1397.2	1394.0
12.5°	1373.4	1374.0	1396.6	1397.9	1405.6	1405.0	1399.8	1385.0	1377.9	1403.0	1405.0
15°	1429.5	1436.5	1465.5	1463.6	1453.9	1448.8	1426.9	1390.1	1368.9	1365.0	1365.0
17.5°	1497.1	1499.1	1536.4	1528.7	1513.2	1479.7	1443.6	1378.5	1318.6	1299.3	1287.7
20°	1552.5	1568.7	1614.4	1588.0	1560.9	1506.8	1427.5	1337.9	1245.1	1198.1	1185.8
22.5°	1628.0	1659.5	1686.0	1647.3	1590.6	1511.9	1407.5	1278.6	1156.8	1083.4	1070.5
25°	1734.9	1753.0	1751.7	1684.7	1595.1	1495.8	1350.2	1194.9	1046.0	965.4	941.6
27.5°	1845.1	1858.0	1803.9	1713.0	1579.6	1450.1	1275.4	1085.3	933.8	861.7	843.6
30°	1970.2	1957.3	1844.5	1700.8	1539.0	1369.5	1170.4	964.8	836.5	772.7	763.1
32.5°	2162.9	2096.5	1880.6	1672.4	1465.5	1258.7	1042.1	878.4	773.4	698.6	685.7
35°	2497.4	2356.9	1945.0	1647.3	1376.6	1134.3	931.9	818.5	717.3	629.0	612.3
37.5°	2929.8	2706.2	2066.2	1604.1	1271.6	1013.1	861.7	768.2	674.8	576.8	558.1
40°	3353.9	3071.6	2229.2	1560.9	1172.3	930.6	821.7	748.2	658.0	557.5	537.5
42.5°	3663.2	3364.2	2407.1	1519.7	1076.3	866.2	801.7	742.4	658.7	560.7	542.0
45°	3896.5	3596.2	2587.6	1463.0	964.1	816.6	783.0	736.6	658.0	563.9	540.7
47.5°	4102.1	3748.3	2712.0	1388.2	857.8	777.9	760.5	714.7	641.9	550.4	530.4
50°	4247.1	3892.6	2793.2	1323.1	776.0	743.7	728.9	679.3	603.9	524.0	500.8
52.5°	4349.6	3986.1	2802.8	1307.0	714.1	714.1	690.9	639.3	566.5	485.9	463.4
55°	4457.2	4039.6	2760.9	1247.1	649.0	665.1	650.3	612.3	542.0	459.5	445.3
57.5°	4452.7	4012.5	2677.2	1002.2	576.2	592.9	598.7	588.4	533.0	466.0	452.4
60°	4482.3	3984.8	2538.0	696.7	507.2	533.0	557.5	557.5	504.6	425.4	411.2
62.5°	4466.9	3921.0	2240.8	491.1	452.4	493.7	524.6	500.8	449.2	382.2	373.2
65°	4366.3	3739.3	1680.8	417.0	433.1	471.1	499.5	462.7	409.9	345.4	339.0
67.5°	4182.7	3404.8	893.9	389.9	424.7	455.6	471.1	431.2	379.0	313.9	306.8
69°	3948.7	3000.0	479.5	386.0	423.4	442.8	453.7	412.5	355.8	298.4	298.4
70°	3706.4	2679.7	310.0	388.0	418.3	435.0	441.5	399.6	342.2	282.3	279.7
72.5°	2904.0	1723.3	259.1	368.6	402.8	410.5	409.9	365.4	300.3	214.6	218.5
75°	1762.6	525.9	247.5	337.1	377.0	393.1	382.8	306.8	233.9	179.8	179.8
77.5°	479.5	184.3	234.6	307.4	344.2	348.7	345.4	285.5	208.8	148.9	150.2
80°	143.1	143.1	218.5	256.5	291.9	312.6	296.5	250.7	167.6	78.6	81.2
82.5°	82.5	92.8	183.0	180.5	235.9	235.2	235.2	179.2	113.4	51.6	41.9
85°	43.8	65.7	99.2	103.8	110.9	125.0	169.5	154.7	85.7	23.2	5.2
87.5°	25.1	37.4	27.1	19.3	40.6	74.1	109.6	105.0	71.5	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)