

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: P287035

Luminaire Tested: **USSL-C027-D-U-T4-AP-7030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P287035
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-7030-HSS
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K 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: 12418.8 lumens
Efficiency: N/A
Efficacy: 129.4 lumens/watt
Luminous Opening: Rectangular (W 1.12' x L: 1.1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: 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



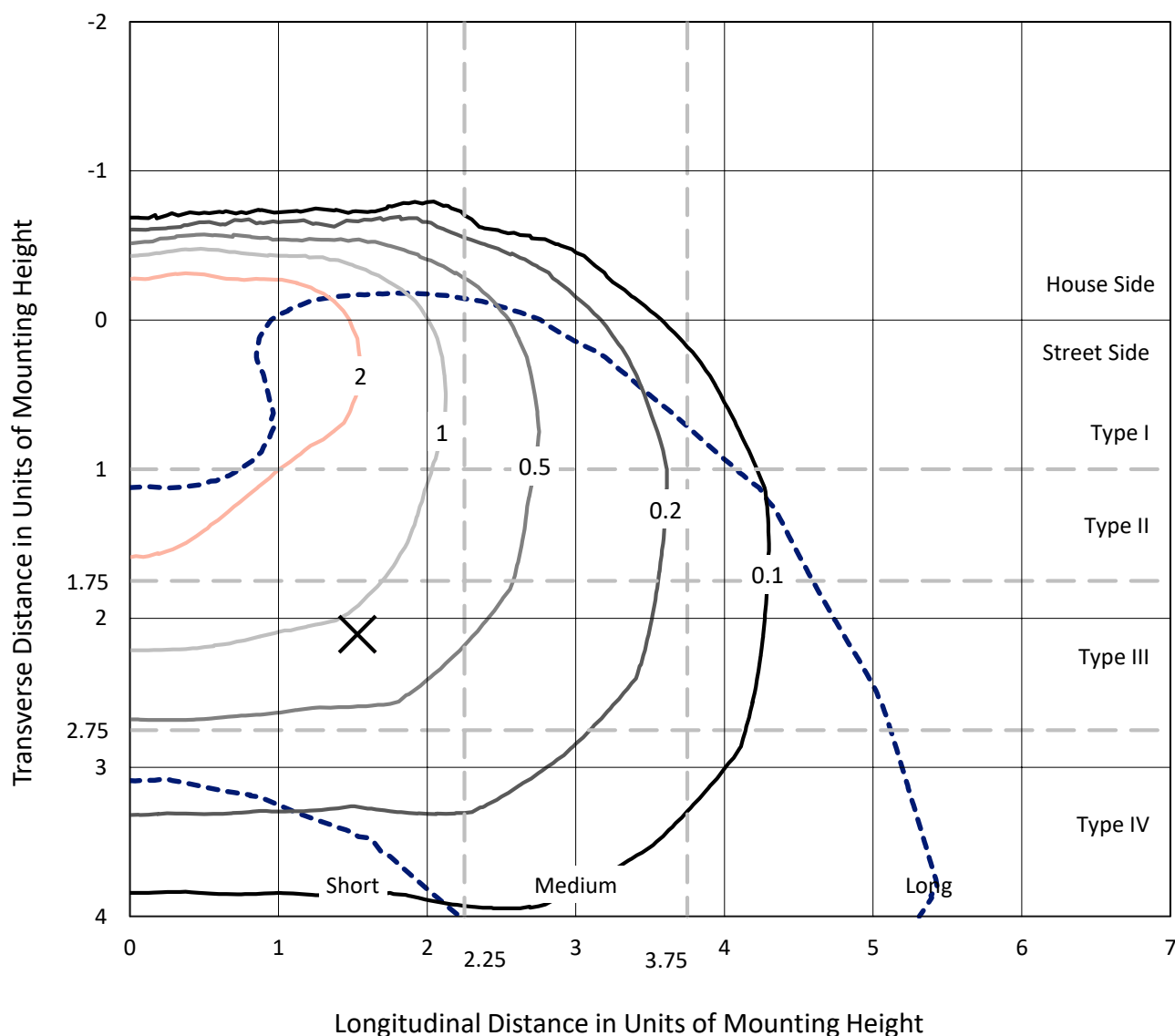
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

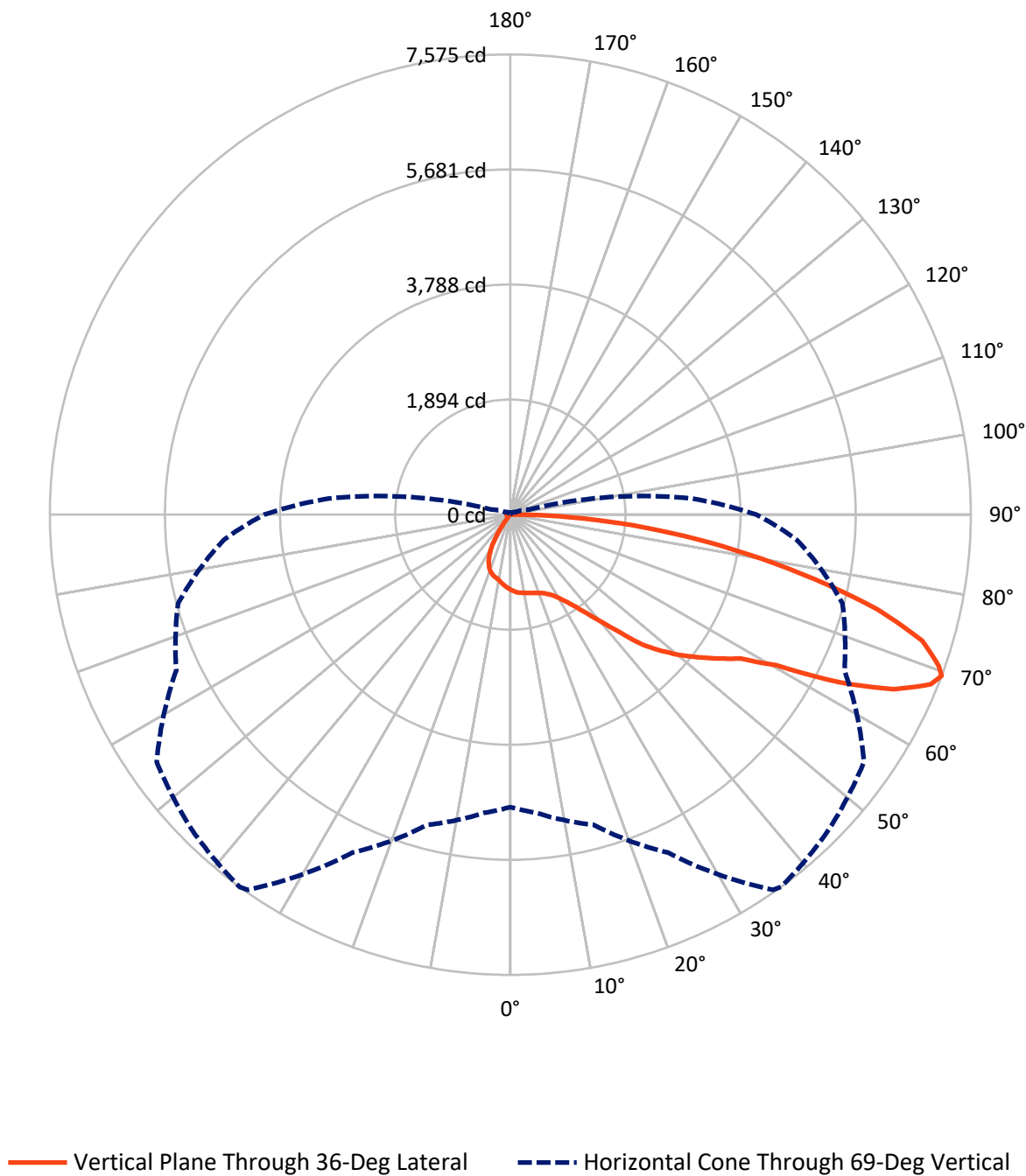


Based on 20 foot mounting height. Maximum calculated value = 4 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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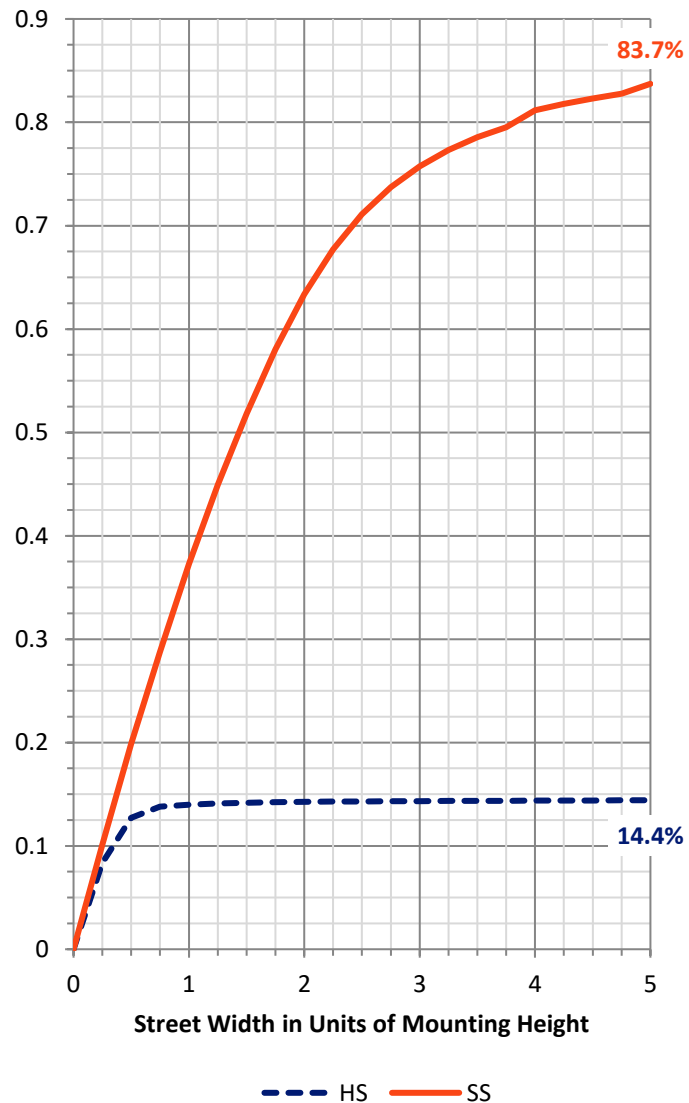
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1810.8	0.0	1810.8
	% Fixture	14.6	0.0	14.6
Street Side	Lumens	10608.1	0.0	10608.1
	% Fixture	85.4	0.0	85.4
Total	Lumens	12418.8	0.0	12418.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.4	0.9
10°-20°	350.6	2.8
20°-30°	587.6	4.7
30°-40°	950.2	7.7
40°-50°	1676.0	13.5
50°-60°	2442.9	19.7
60°-70°	3226.6	26.0
70°-80°	2481.0	20.0
80°-90°	586.5	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°	12418.8	100.0
0°-180°	12418.8	100.0

Coefficient of Utilization



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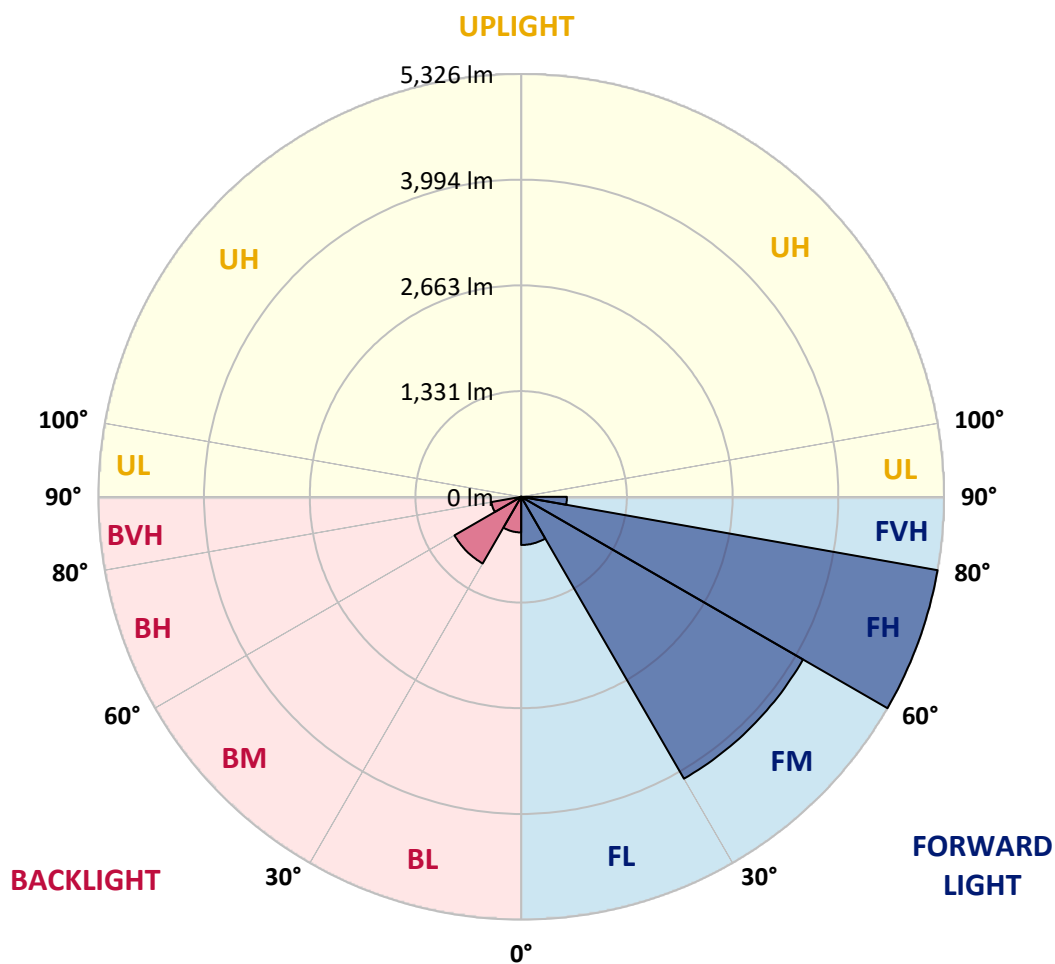
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	607.1	4.9			
FM	(30°-60°)	4099.5	33.0			
FH	(60°-80°)	5325.8	42.9			G3/7500
FVH	(80°-90°)	575.6	4.6			G4/750
BL	(0°-30°)	448.6	3.6	B1/500		
BM	(30°-60°)	969.6	7.8	B1/1000		
BH	(60°-80°)	381.8	3.1	B1/500		G1/500
BVH	(80°-90°)	10.9	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°	1237.3	1237.3	1237.3	1237.3	1237.3	1237.3	1237.3	1237.3	1237.3	1237.3	1237.3
2.5°	1283.0	1285.0	1279.0	1264.9	1261.5	1262.9	1264.2	1256.2	1247.4	1243.4	1234.0
5°	1305.8	1306.4	1303.8	1291.1	1287.7	1287.7	1286.3	1277.0	1268.3	1262.9	1249.4
7.5°	1311.8	1311.2	1312.5	1299.1	1302.4	1296.4	1300.4	1291.1	1283.0	1275.6	1263.5
10°	1321.2	1322.5	1321.2	1310.5	1311.8	1313.1	1312.5	1305.8	1305.2	1304.4	1283.6
12.5°	1316.5	1315.9	1319.9	1313.1	1322.5	1323.9	1338.7	1342.0	1345.3	1345.3	1323.9
15°	1313.1	1305.8	1322.5	1317.1	1336.6	1338.7	1360.8	1380.9	1385.0	1386.2	1378.2
17.5°	1317.9	1316.5	1340.0	1330.0	1357.4	1352.8	1374.2	1409.8	1428.5	1437.9	1442.6
20°	1338.0	1343.3	1362.8	1352.8	1375.5	1375.5	1399.0	1437.2	1472.7	1496.3	1500.9
22.5°	1368.9	1370.9	1393.7	1383.6	1401.7	1403.7	1423.9	1468.7	1517.0	1556.6	1576.7
25°	1401.7	1400.3	1419.1	1419.8	1443.9	1449.9	1467.4	1503.7	1567.4	1619.0	1674.0
27.5°	1449.9	1447.3	1469.4	1462.8	1507.7	1507.0	1527.1	1570.0	1641.8	1709.5	1793.4
30°	1528.5	1521.7	1535.2	1545.9	1596.8	1598.9	1617.0	1659.3	1731.7	1830.2	1932.2
32.5°	1655.2	1660.5	1659.3	1645.8	1710.1	1714.2	1758.5	1826.8	1900.6	2019.3	2138.8
35°	1922.1	1921.5	1885.2	1851.0	1857.1	1869.1	1926.8	2050.3	2201.1	2481.4	2586.8
37.5°	2254.1	2270.2	2206.5	2107.9	2075.7	2073.7	2124.0	2307.1	2553.9	3095.1	3137.4
40°	2693.4	2663.2	2586.1	2434.5	2353.4	2330.5	2347.4	2562.6	2941.5	3618.3	3578.0
42.5°	2991.9	3005.2	2920.8	2791.4	2670.6	2653.1	2613.6	2843.6	3361.4	4035.4	3922.7
45°	3349.9	3376.8	3283.6	3191.7	3069.7	3058.9	2999.2	3133.4	3765.1	4344.5	4192.3
47.5°	3661.8	3680.6	3531.7	3445.8	3358.0	3349.3	3293.0	3425.8	4115.9	4598.8	4413.0
50°	3997.8	4013.3	3850.9	3728.9	3645.7	3637.7	3606.2	3753.7	4471.3	4838.9	4595.4
52.5°	4426.4	4368.7	4171.6	4005.3	3912.6	3901.9	3917.4	4081.0	4808.0	5011.8	4741.6
55°	4928.0	4771.1	4519.0	4311.0	4172.8	4180.2	4198.4	4413.6	5094.4	5179.5	4851.6
57.5°	5230.5	5239.2	5050.1	4743.6	4481.4	4466.6	4453.2	4715.5	5327.1	5365.3	4958.2
60°	5635.0	5662.4	5637.6	5448.5	5095.0	5032.0	4813.3	5052.1	5573.9	5515.5	5021.9
62.5°	5942.1	5987.1	6131.8	6015.1	6056.1	6083.0	5481.4	5455.2	5800.6	5618.2	5035.4
65°	5871.6	5914.6	6211.6	6441.1	6873.0	6929.9	6778.4	5968.3	5977.6	5663.8	4992.4
67.5°	5338.5	5382.8	5744.9	6362.6	7393.4	7457.8	7296.1	6858.9	6065.5	5665.8	4883.1
69°	4813.3	4927.4	5285.5	6136.6	7539.0	7575.2	7378.7	7101.6	6064.1	5657.7	4728.8
70°	4499.5	4590.7	4997.1	5875.7	7463.2	7480.6	7329.0	7199.6	6041.3	5587.3	4584.0
72.5°	3617.5	3597.4	4030.1	4981.0	7096.3	7085.5	7102.4	7068.2	5999.8	5329.8	3973.0
75°	2622.3	2629.7	3030.0	3919.4	6170.1	6248.5	6583.9	6787.2	5595.3	4648.4	2923.4
77.5°	1863.7	1879.2	2223.2	3000.6	5085.6	5122.5	5737.6	5953.5	4708.1	3657.2	1593.5
80°	1247.4	1260.9	1582.7	2212.5	3884.5	3968.4	4639.0	4687.3	3563.3	2263.5	288.4
82.5°	780.0	786.7	1036.2	1576.1	2834.3	2875.2	3185.6	3092.5	1852.4	504.3	85.9
85°	447.4	455.3	635.1	998.0	1790.0	1805.4	2012.6	1529.8	444.0	67.7	47.0
87.5°	128.1	137.5	262.9	430.5	807.4	801.5	751.2	501.0	71.8	30.8	22.2
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°	1237.3	1237.3	1237.3	1237.3	1237.3	1237.3	1237.3	1237.3	1237.3	1237.3	1237.3
2.5°	1226.6	1236.7	1224.6	1215.9	1205.8	1207.2	1207.2	1195.8	1195.8	1211.9	1213.9
5°	1242.1	1249.4	1228.6	1211.9	1190.5	1185.7	1172.4	1158.9	1154.2	1168.3	1170.3
7.5°	1256.2	1252.2	1227.4	1200.4	1172.4	1150.2	1133.5	1111.3	1101.2	1117.3	1120.0
10°	1270.3	1258.2	1232.7	1200.4	1155.5	1123.4	1098.6	1058.9	1048.2	1056.3	1060.3
12.5°	1309.2	1293.1	1263.5	1207.9	1156.9	1113.3	1065.0	1015.4	989.9	999.3	1004.7
15°	1366.8	1342.7	1311.8	1243.4	1173.0	1109.9	1044.2	965.8	919.5	914.2	915.4
17.5°	1435.2	1409.8	1368.9	1285.7	1195.8	1109.9	1012.7	914.2	837.6	815.5	818.2
20°	1504.3	1476.1	1443.3	1334.6	1217.3	1093.2	973.8	845.1	735.7	685.4	685.4
22.5°	1583.5	1563.4	1508.3	1373.5	1224.6	1067.0	914.2	751.8	617.7	543.9	541.2
25°	1686.1	1668.0	1566.6	1404.4	1218.6	1034.1	837.0	641.9	475.5	400.4	396.4
27.5°	1800.8	1765.2	1623.7	1427.2	1197.8	981.1	734.4	502.3	331.3	260.2	256.8
30°	1928.2	1876.6	1667.2	1423.1	1159.5	892.0	613.7	337.4	193.1	146.2	146.2
32.5°	2111.2	2017.3	1718.9	1413.8	1106.6	785.4	450.7	199.9	96.6	74.4	74.4
35°	2468.7	2292.4	1797.4	1388.3	1020.8	644.5	283.7	89.9	53.0	52.4	52.4
37.5°	2948.2	2647.1	1923.5	1350.7	902.7	468.8	141.5	49.6	49.6	51.0	50.3
40°	3368.8	3029.4	2091.8	1293.7	773.3	295.7	64.3	47.6	50.3	52.4	52.4
42.5°	3681.2	3324.5	2254.7	1210.5	617.7	150.9	53.6	46.3	48.3	49.0	49.6
45°	3946.2	3572.6	2384.9	1105.3	452.0	71.8	53.6	45.6	45.6	45.6	46.3
47.5°	4149.4	3754.4	2474.1	981.1	281.0	60.3	56.4	44.9	42.3	40.9	41.5
50°	4308.4	3881.1	2505.6	843.0	138.8	61.1	55.0	42.3	36.9	37.5	38.3
52.5°	4420.3	3983.7	2472.1	670.7	71.8	64.3	55.6	40.9	32.9	34.9	34.9
55°	4524.3	4009.3	2386.9	476.8	64.3	65.1	55.6	37.5	28.2	32.2	34.2
57.5°	4550.5	4008.5	2253.5	299.7	69.1	61.7	53.0	36.9	26.8	32.2	33.5
60°	4589.4	3975.7	2070.3	183.0	72.4	57.0	49.6	34.9	25.4	26.8	28.2
62.5°	4547.1	3919.4	1796.0	121.4	69.7	53.0	48.3	33.5	22.2	20.1	19.5
65°	4464.6	3731.0	1355.4	97.9	65.1	51.6	43.6	29.5	18.1	12.7	12.1
67.5°	4272.1	3372.8	716.9	92.5	61.1	51.0	38.9	27.5	14.7	7.4	6.7
69°	4045.4	3009.9	325.3	93.9	71.1	51.0	39.5	24.2	13.5	5.4	4.7
70°	3808.8	2678.7	148.2	91.3	77.2	53.6	38.9	22.2	12.1	4.7	4.0
72.5°	2937.5	1665.2	101.2	81.2	85.9	52.4	38.9	20.8	11.4	2.6	2.0
75°	1743.7	413.1	91.3	64.3	81.8	63.7	47.0	22.8	10.1	1.4	0.0
77.5°	452.0	115.3	77.2	49.0	72.4	71.8	54.4	22.8	10.1	0.0	0.0
80°	116.7	88.5	66.3	31.5	57.0	69.7	44.3	25.4	8.1	0.0	0.0
82.5°	69.7	64.3	72.4	19.5	45.6	47.0	26.2	18.1	8.7	0.0	0.0
85°	40.3	55.6	51.0	14.7	8.7	4.7	10.7	20.1	8.7	0.0	0.0
87.5°	23.4	30.2	11.4	2.0	2.0	1.4	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)