

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: P287019

Luminaire Tested: **USSL-C027-D-U-T3-BZ-7030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P287019
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1810-004-7)
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-T3-BZ-7030-HSS
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD, BRONZE
PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11758 lumens
Efficiency: N/A
Efficacy: 122.5 lumens/watt
Luminous Opening: Rectangular (W 1.12' x L: 1.1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B2 - U0 - G3

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

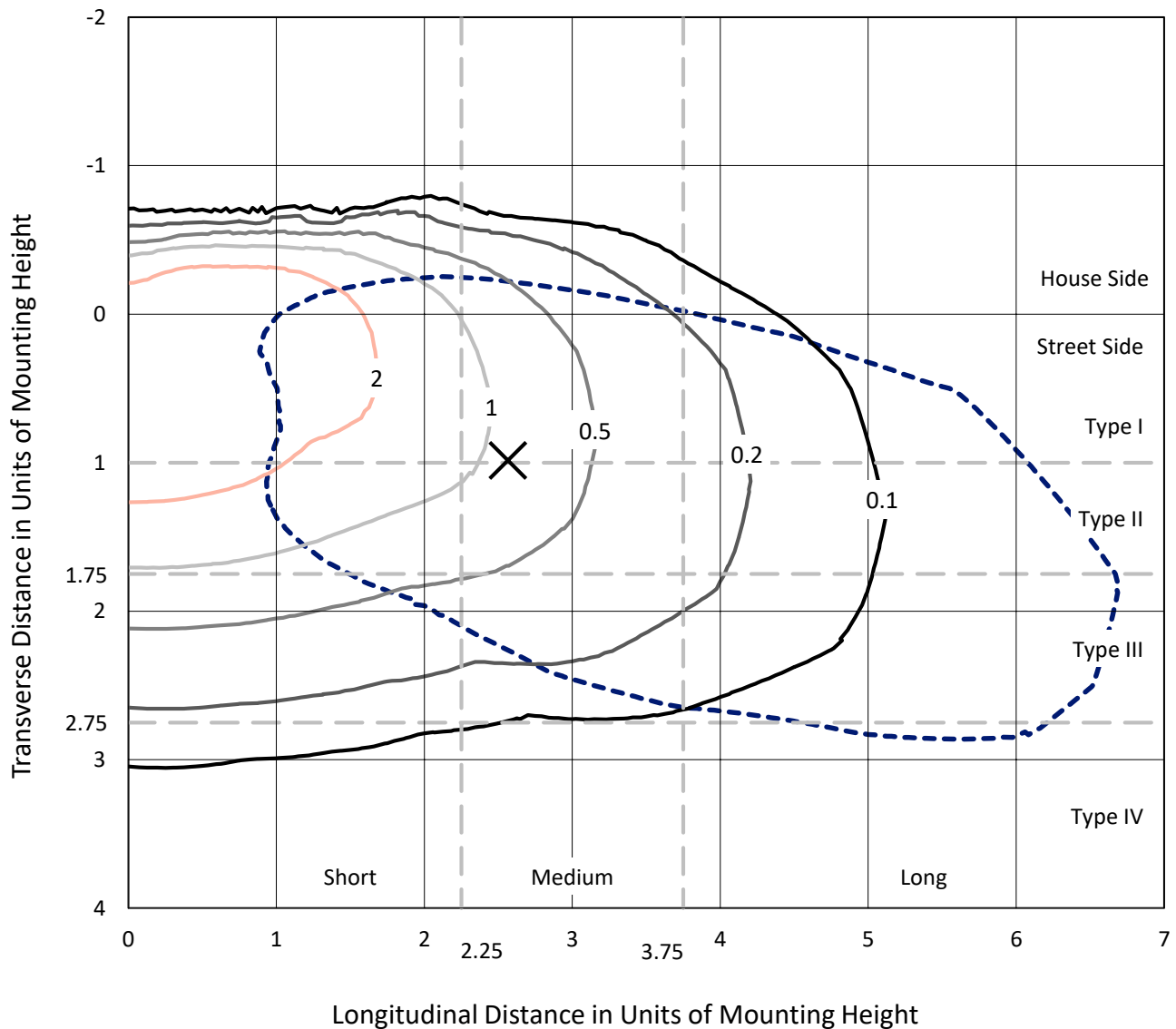


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

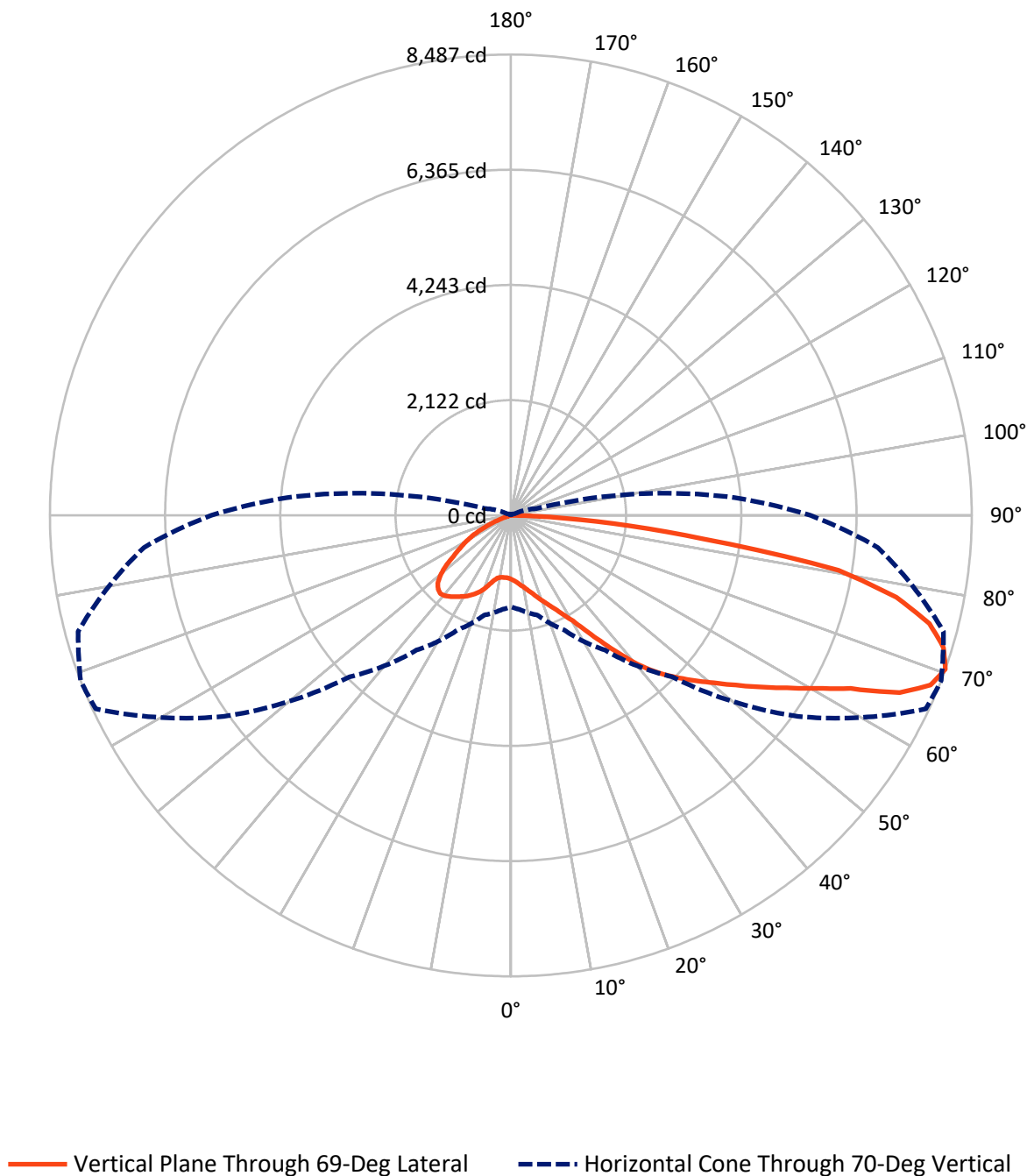


Based on 20 foot mounting height. Maximum calculated value = 4.4 fc
Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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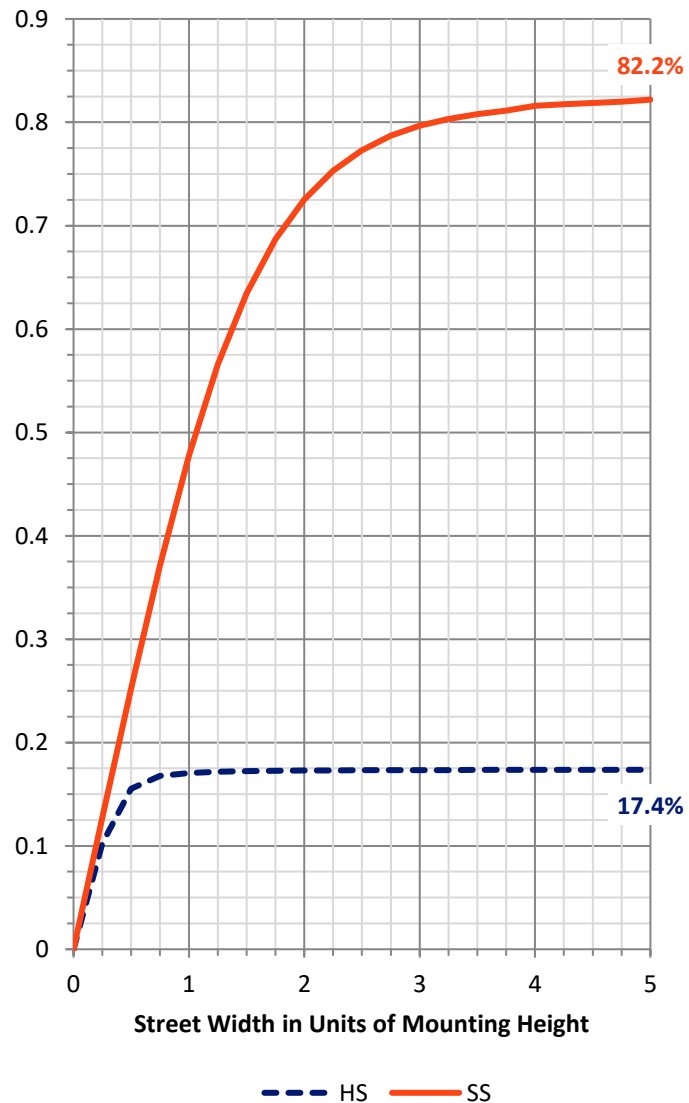
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2065.5	0.0	2065.5
	% Fixture	17.6	0.0	17.6
Street Side	Lumens	9692.5	0.0	9692.5
	% Fixture	82.4	0.0	82.4
Total	Lumens	11758.0	0.0	11758.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.3	1.0
10°-20°	362.6	3.1
20°-30°	665.1	5.7
30°-40°	1142.4	9.7
40°-50°	1785.3	15.2
50°-60°	2384.2	20.3
60°-70°	2790.2	23.7
70°-80°	2096.0	17.8
80°-90°	417.9	3.6
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°	11758.0	100.0
0°-180°	11758.0	100.0

Coefficient of Utilization



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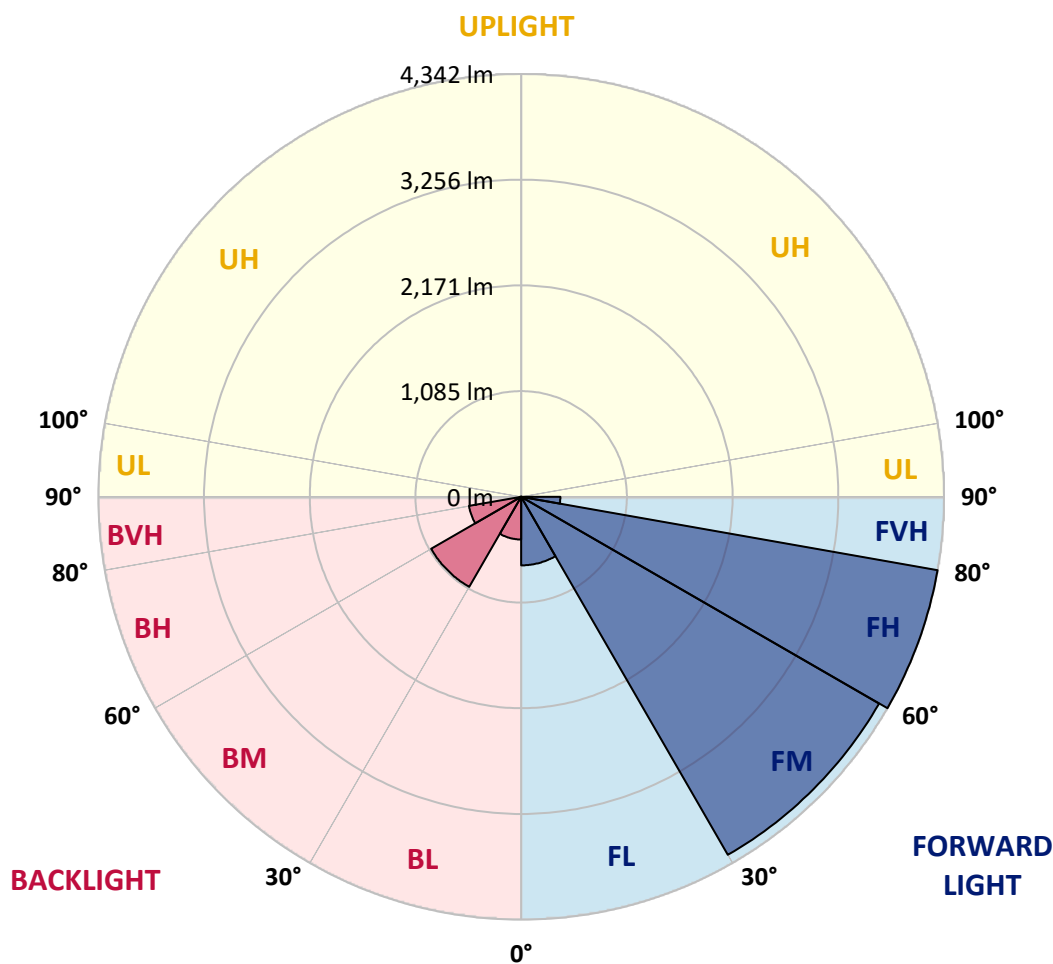
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	703.8	6.0			
FM	(30°-60°)	4244.5	36.1			
FH	(60°-80°)	4341.9	36.9			G2/5000
FVH	(80°-90°)	402.4	3.4			G3/500
BL	(0°-30°)	438.3	3.7	B1/500		
BM	(30°-60°)	1067.4	9.1	B2/2500		
BH	(60°-80°)	544.3	4.6	B2/1000		G2/1000
BVH	(80°-90°)	15.5	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-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	69°	75°	85°
0°	1175.7	1175.7	1175.7	1175.7	1175.7	1175.7	1175.7	1175.7	1175.7	1175.7	1175.7
2.5°	1257.3	1266.2	1260.5	1240.2	1236.4	1235.2	1221.9	1210.5	1203.5	1201.6	1180.1
5°	1325.6	1332.6	1330.7	1307.9	1301.6	1287.0	1275.7	1245.9	1241.5	1235.2	1209.2
7.5°	1376.9	1378.2	1389.6	1370.6	1364.2	1346.5	1330.1	1302.9	1297.8	1287.7	1251.0
10°	1424.4	1433.2	1439.5	1415.5	1425.6	1403.5	1383.9	1364.9	1344.0	1343.4	1297.2
12.5°	1454.7	1459.8	1473.7	1454.7	1469.3	1468.7	1450.9	1429.4	1417.4	1406.6	1354.1
15°	1473.7	1479.4	1497.8	1512.3	1517.4	1525.6	1525.0	1508.5	1487.6	1483.8	1429.4
17.5°	1503.5	1508.5	1522.4	1545.8	1563.6	1581.9	1596.5	1597.7	1585.1	1580.7	1530.7
20°	1548.4	1547.7	1555.3	1568.6	1602.2	1642.7	1674.9	1687.0	1681.9	1681.3	1644.6
22.5°	1595.8	1593.3	1600.9	1607.2	1642.0	1709.7	1762.9	1793.3	1795.2	1791.4	1785.0
25°	1671.8	1659.1	1658.5	1665.4	1711.6	1790.1	1859.7	1911.6	1916.6	1926.8	1983.1
27.5°	1864.8	1862.9	1806.5	1758.5	1789.5	1878.7	1981.2	2049.5	2072.9	2111.5	2217.8
30°	2142.5	2131.8	2108.4	1996.4	1912.9	1994.5	2123.6	2229.2	2253.9	2391.2	2486.1
32.5°	2391.9	2379.8	2370.3	2266.6	2151.4	2133.1	2262.8	2443.1	2514.0	2726.6	2797.5
35°	2609.5	2602.6	2602.6	2533.0	2416.5	2337.4	2429.8	2670.9	2841.1	3138.5	3157.5
37.5°	2807.0	2812.6	2820.2	2743.7	2684.2	2658.9	2651.9	2953.1	3206.9	3519.4	3522.0
40°	2981.6	2994.3	3009.4	2953.8	2913.3	2935.4	2894.3	3293.6	3609.3	3948.5	3868.7
42.5°	3117.6	3134.7	3211.3	3134.1	3163.8	3208.8	3199.9	3563.7	3954.8	4262.3	4185.1
45°	3218.9	3232.2	3278.4	3300.5	3371.4	3461.2	3480.8	3840.9	4250.9	4548.3	4443.3
47.5°	3298.0	3288.5	3316.3	3429.6	3578.9	3679.5	3757.4	4158.5	4540.7	4812.8	4669.2
50°	3334.7	3333.4	3402.4	3541.6	3759.9	3903.5	4052.9	4573.0	4843.8	5065.3	4902.7
52.5°	3361.9	3384.0	3492.9	3655.5	3940.2	4136.4	4293.3	4974.2	5188.7	5343.1	5158.9
55°	3382.1	3425.2	3532.1	3718.1	4064.3	4337.0	4545.8	5338.7	5574.7	5605.7	5389.9
57.5°	3256.2	3301.8	3470.7	3736.5	4161.1	4510.4	4805.9	5756.9	5992.9	5974.6	5637.3
60°	3043.0	3079.7	3286.0	3684.0	4173.1	4703.4	5177.9	6222.0	6461.8	6459.3	5930.3
62.5°	2817.7	2850.6	3054.4	3510.6	4092.7	4808.4	5612.0	6919.9	7019.9	6920.6	6197.3
65°	2531.1	2564.6	2767.1	3219.5	3894.7	4802.7	5978.4	7666.6	7867.8	7580.5	6497.9
67.5°	2151.4	2205.2	2388.1	2807.0	3513.1	4619.8	6296.0	8229.8	8337.3	8077.9	6684.5
70°	1683.2	1735.7	1900.8	2328.6	3026.5	4201.6	6452.3	8431.6	8486.7	8246.8	6782.6
72.5°	1175.7	1219.3	1294.0	1664.2	2352.0	3556.1	6442.8	8334.2	8331.6	8088.0	6559.3
75°	418.9	477.7	780.2	1005.5	1369.3	2615.2	6021.4	7933.0	7960.8	7740.0	6099.2
77.5°	108.8	113.9	240.5	485.3	769.4	1264.9	4471.8	7179.4	7254.7	6998.4	5362.7
80°	79.7	83.5	115.8	337.9	440.4	556.8	2452.6	5882.8	6116.3	5982.8	4111.7
82.5°	56.3	60.7	84.8	222.7	291.1	370.2	921.3	3194.8	3565.6	3544.1	2029.3
85°	35.4	38.6	53.2	79.7	110.7	148.7	259.4	1640.1	1881.8	1983.7	887.1
87.5°	16.5	19.0	29.7	47.5	67.7	78.5	78.5	351.8	438.5	465.7	189.2
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°	1175.7	1175.7	1175.7	1175.7	1175.7	1175.7	1175.7	1175.7	1175.7	1175.7	1175.7
2.5°	1168.7	1176.3	1159.9	1150.4	1130.8	1121.3	1116.2	1106.7	1104.2	1108.6	1113.0
5°	1195.9	1197.8	1164.3	1135.8	1111.1	1083.3	1070.0	1042.2	1030.1	1034.6	1039.6
7.5°	1230.7	1227.6	1176.3	1133.9	1089.6	1051.0	1023.8	979.5	966.9	963.7	970.7
10°	1263.6	1247.8	1190.9	1133.3	1074.4	1021.3	979.5	932.7	902.3	898.5	899.8
12.5°	1323.1	1292.7	1226.9	1145.9	1075.1	1016.9	956.1	887.1	851.7	840.3	840.3
15°	1405.4	1354.8	1292.7	1199.7	1115.6	1032.7	946.0	856.1	794.1	766.9	766.3
17.5°	1494.0	1450.9	1385.1	1274.4	1163.7	1046.0	923.8	807.4	725.8	687.2	683.4
20°	1616.1	1591.4	1516.1	1364.2	1209.8	1047.9	896.0	747.3	637.2	584.7	573.3
22.5°	1788.8	1755.3	1629.4	1434.5	1225.7	1032.0	842.8	650.5	515.1	446.1	439.1
25°	1967.3	1916.0	1739.5	1483.8	1237.7	1000.4	766.3	516.3	370.2	305.6	297.4
27.5°	2164.7	2084.3	1833.8	1530.7	1223.1	946.0	630.9	359.4	240.5	199.3	191.1
30°	2393.8	2276.7	1935.0	1562.9	1207.3	835.9	467.0	232.9	155.7	125.3	123.4
32.5°	2677.9	2515.9	2035.0	1578.8	1150.4	692.2	301.8	148.7	96.2	81.0	78.5
35°	3017.0	2791.1	2169.1	1575.6	1057.4	501.2	189.2	87.3	63.9	61.4	61.4
37.5°	3338.5	3091.1	2329.8	1562.3	909.9	319.5	108.2	56.9	55.7	63.9	67.7
40°	3663.7	3384.0	2503.2	1526.2	723.3	192.4	60.1	50.6	53.2	62.6	66.4
42.5°	3946.6	3615.0	2670.9	1447.8	509.4	103.1	53.2	47.5	50.0	54.4	55.1
45°	4175.0	3829.5	2761.4	1337.7	301.8	65.2	50.6	45.6	43.7	45.6	46.2
47.5°	4420.5	4012.4	2834.8	1175.0	163.3	63.9	50.0	42.4	38.6	37.3	38.6
50°	4603.4	4206.6	2860.7	934.6	86.1	61.4	47.5	38.6	34.8	37.3	38.0
52.5°	4779.9	4356.0	2848.7	652.4	72.8	56.3	43.7	36.1	32.9	40.5	42.4
55°	5015.3	4540.1	2762.0	317.6	70.9	53.2	39.2	31.6	31.6	31.6	31.6
57.5°	5230.4	4666.7	2588.6	144.9	68.3	48.7	35.4	28.5	24.0	26.6	27.2
60°	5453.2	4862.2	2293.1	92.4	64.5	42.4	30.4	24.7	20.9	20.9	21.5
62.5°	5674.0	4903.9	1882.5	81.6	61.4	38.6	26.6	21.5	17.7	17.7	19.0
65°	5856.3	4834.3	1386.4	72.8	58.2	34.8	24.0	19.6	15.2	14.6	15.2
67.5°	5787.3	4494.5	900.4	65.2	53.2	31.6	20.9	17.7	13.9	11.4	12.0
70°	5517.7	3982.6	486.6	62.6	48.1	29.1	19.0	15.8	12.7	9.5	9.5
72.5°	5083.6	3356.2	182.9	58.2	44.3	25.3	17.1	15.8	12.0	7.6	7.0
75°	4372.4	2534.2	86.7	52.5	37.3	22.8	17.1	16.5	12.0	5.1	4.4
77.5°	3507.4	1413.6	66.4	44.3	30.4	19.0	17.1	15.8	7.0	2.5	1.9
80°	1885.0	530.9	50.0	32.3	22.1	14.6	15.8	11.4	3.2	0.6	0.0
82.5°	747.9	131.0	34.8	14.6	9.5	6.3	8.9	4.4	0.6	0.0	0.0
85°	188.6	51.3	21.5	7.6	5.1	3.2	1.3	0.0	0.0	0.0	0.0
87.5°	21.5	14.6	6.3	3.8	1.9	0.6	0.0	0.0	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)