

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: P287027

Luminaire Tested: **USSL-C027-D-U-T3-AP-7050-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P287027
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-AP-7050-HSS
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD, GRAY
PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12923.4 lumens
Efficiency: N/A
Efficacy: 134.6 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

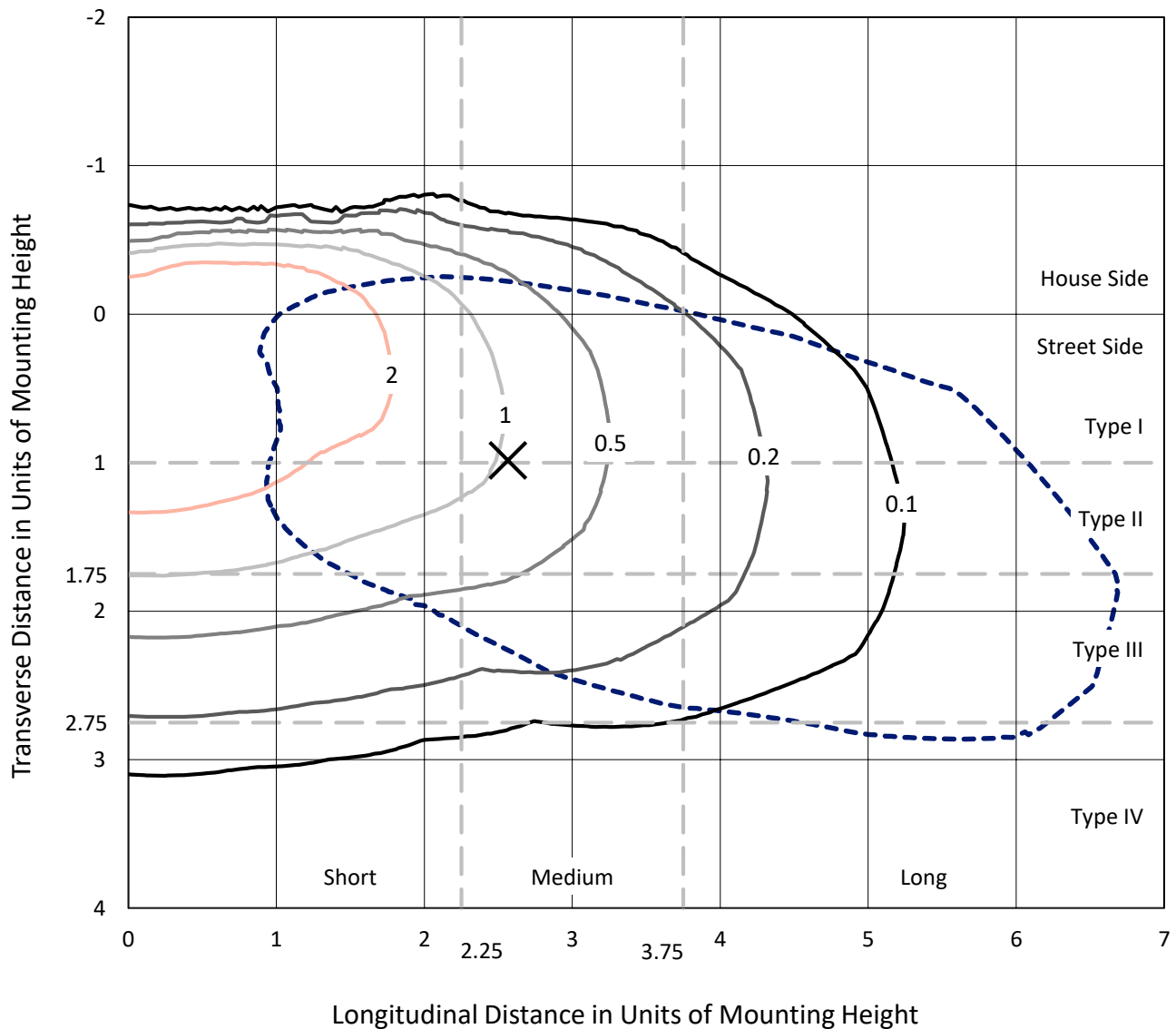


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd

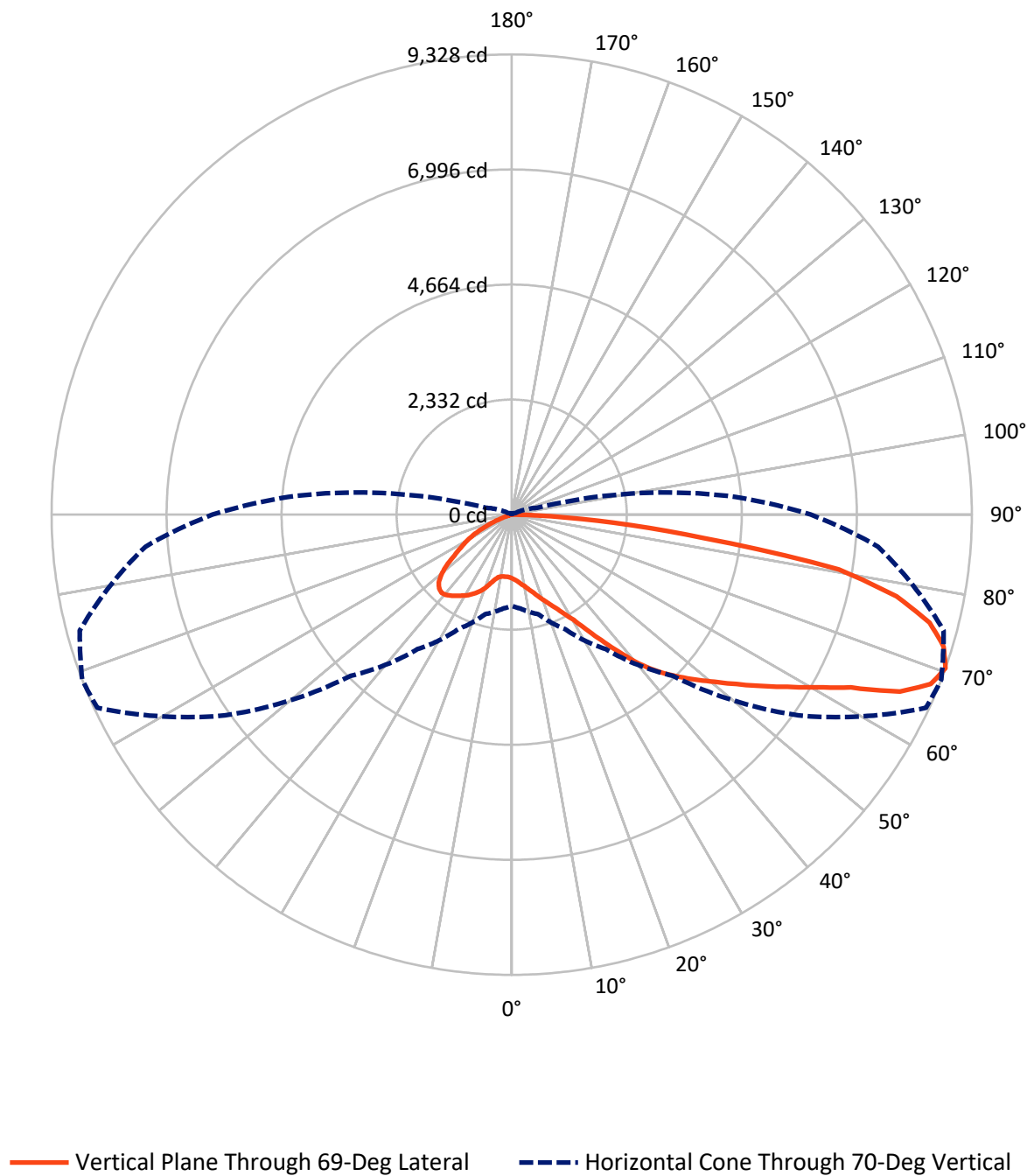


Based on 20 foot mounting height. Maximum calculated value = 4.8 fc
Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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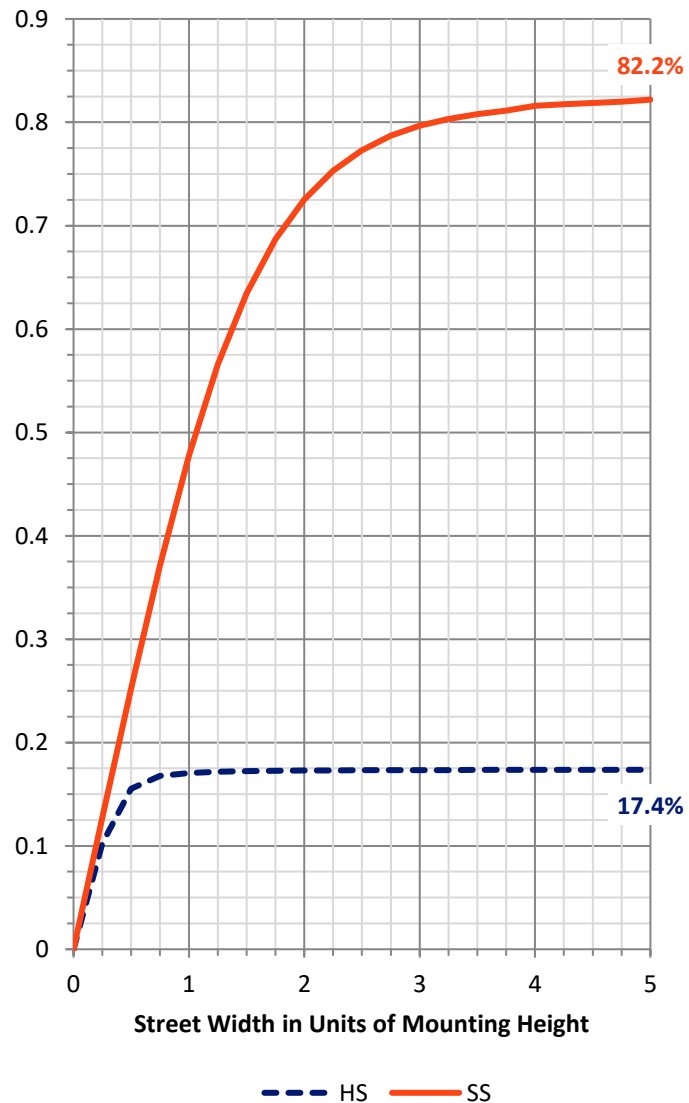
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2270.2	0.0	2270.2
	% Fixture	17.6	0.0	17.6
Street Side	Lumens	10653.1	0.0	10653.1
	% Fixture	82.4	0.0	82.4
Total	Lumens	12923.4	0.0	12923.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.7	1.0
10°-20°	398.5	3.1
20°-30°	731.0	5.7
30°-40°	1255.6	9.7
40°-50°	1962.2	15.2
50°-60°	2620.5	20.3
60°-70°	3066.7	23.7
70°-80°	2303.8	17.8
80°-90°	459.3	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°	12923.4	100.0
0°-180°	12923.4	100.0

Coefficient of Utilization



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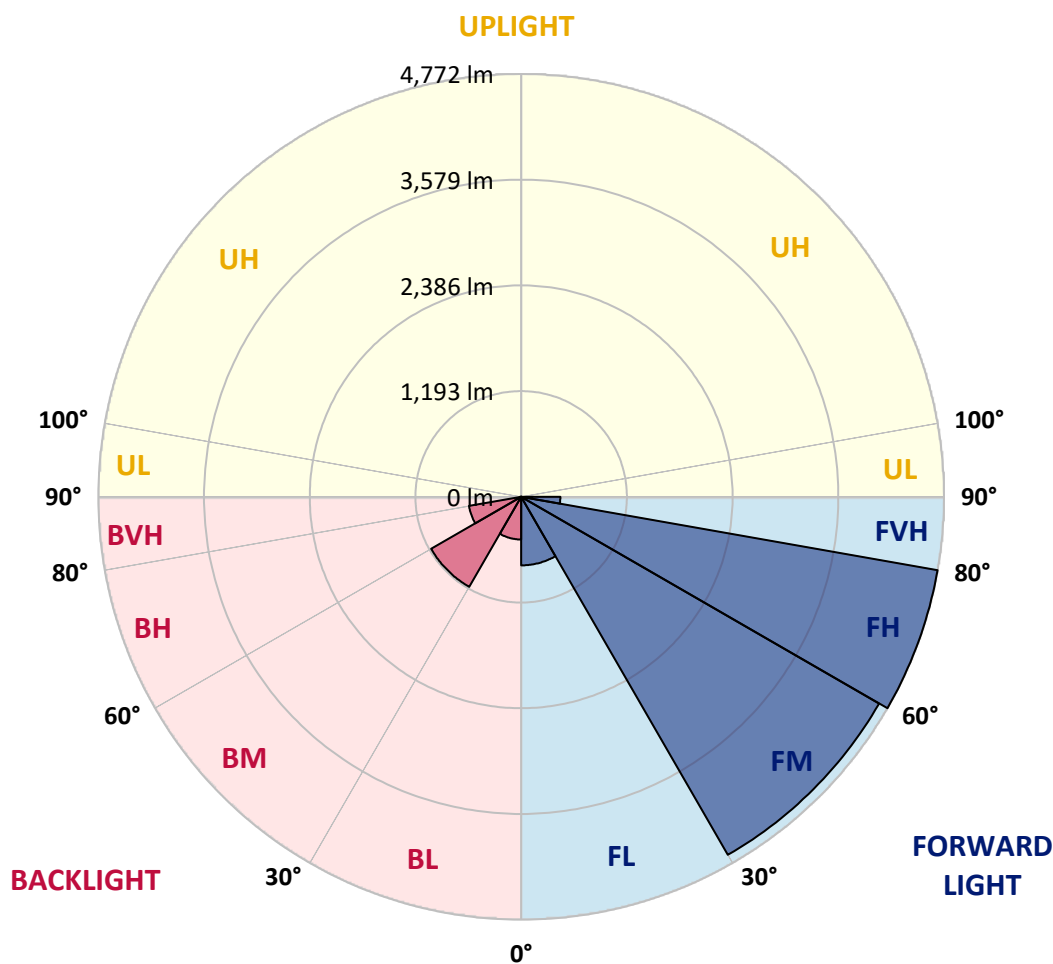
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	773.5	6.0			
FM	(30°-60°)	4665.1	36.1			
FH	(60°-80°)	4772.2	36.9			G2/5000
FVH	(80°-90°)	442.3	3.4			G3/500
BL	(0°-30°)	481.7	3.7	B1/500		
BM	(30°-60°)	1173.2	9.1	B2/2500		
BH	(60°-80°)	598.3	4.6	B2/1000		G2/1000
BVH	(80°-90°)	17.0	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°	1292.2	1292.2	1292.2	1292.2	1292.2	1292.2	1292.2	1292.2	1292.2	1292.2	1292.2
2.5°	1381.9	1391.6	1385.4	1363.1	1359.0	1357.6	1343.0	1330.5	1322.8	1320.7	1297.1
5°	1457.0	1464.7	1462.6	1437.5	1430.7	1414.6	1402.1	1369.4	1364.5	1357.6	1329.1
7.5°	1513.3	1514.8	1527.3	1506.4	1499.4	1479.9	1461.9	1432.0	1426.4	1415.3	1375.0
10°	1565.6	1575.2	1582.2	1555.8	1567.0	1542.6	1521.1	1500.2	1477.2	1476.5	1425.8
12.5°	1598.9	1604.5	1619.7	1598.9	1614.9	1614.2	1594.7	1571.1	1557.8	1546.1	1488.3
15°	1619.7	1626.0	1646.2	1662.2	1667.8	1676.8	1676.1	1658.0	1635.1	1630.9	1571.1
17.5°	1652.5	1658.0	1673.4	1699.0	1718.5	1738.7	1754.7	1756.0	1742.2	1737.3	1682.4
20°	1701.9	1701.1	1709.5	1724.1	1760.9	1805.4	1840.9	1854.2	1848.6	1847.9	1807.6
22.5°	1754.0	1751.3	1759.5	1766.5	1804.8	1879.2	1937.6	1971.0	1973.1	1968.9	1962.0
25°	1837.4	1823.6	1822.8	1830.6	1881.3	1967.5	2044.0	2101.0	2106.7	2117.8	2179.7
27.5°	2049.6	2047.5	1985.6	1932.7	1966.9	2064.9	2177.6	2252.7	2278.4	2320.9	2437.7
30°	2354.9	2343.1	2317.4	2194.2	2102.4	2192.2	2334.0	2450.2	2477.3	2628.2	2732.5
32.5°	2628.9	2615.7	2605.2	2491.2	2364.6	2344.5	2487.1	2685.3	2763.2	2996.9	3074.8
35°	2868.2	2860.6	2860.6	2784.0	2656.0	2569.1	2670.6	2935.6	3122.7	3449.6	3470.4
37.5°	3085.2	3091.4	3099.8	3015.6	2950.2	2922.5	2914.7	3245.8	3524.7	3868.3	3871.1
40°	3277.1	3291.0	3307.7	3246.5	3202.0	3226.3	3181.2	3620.0	3967.0	4339.8	4252.2
42.5°	3426.7	3445.4	3529.6	3444.7	3477.4	3526.8	3517.1	3917.0	4346.8	4684.8	4600.0
45°	3537.9	3552.5	3603.3	3627.6	3705.5	3804.3	3825.8	4221.6	4672.3	4999.1	4883.7
47.5°	3624.9	3614.4	3645.0	3769.5	3933.6	4044.3	4129.8	4570.7	4990.8	5289.9	5131.9
50°	3665.1	3663.8	3739.6	3892.6	4132.6	4290.5	4454.5	5026.3	5323.9	5567.3	5388.6
52.5°	3695.1	3719.4	3839.1	4017.8	4330.8	4546.3	4718.9	5467.2	5702.9	5872.7	5670.3
55°	3717.4	3764.7	3882.2	4086.7	4467.1	4766.8	4996.4	5867.8	6127.2	6161.3	5924.1
57.5°	3579.0	3629.0	3814.7	4106.8	4573.5	4957.4	5282.2	6327.5	6586.9	6566.7	6196.1
60°	3344.6	3384.9	3611.6	4049.1	4586.7	5169.6	5691.1	6838.7	7102.3	7099.4	6518.1
62.5°	3097.0	3133.2	3357.1	3858.6	4498.3	5285.0	6168.2	7605.7	7715.6	7606.5	6811.6
65°	2781.9	2818.8	3041.4	3538.6	4280.7	5278.7	6571.0	8426.4	8647.6	8331.9	7141.9
67.5°	2364.6	2423.8	2624.7	3085.2	3861.3	5077.7	6920.1	9045.4	9163.7	8878.5	7347.0
70°	1849.9	1907.7	2089.3	2559.3	3326.5	4618.0	7091.8	9267.3	9327.8	9064.2	7454.9
72.5°	1292.2	1340.2	1422.3	1829.1	2585.1	3908.6	7081.4	9160.2	9157.4	8889.6	7209.3
75°	460.4	525.1	857.6	1105.2	1505.1	2874.4	6618.2	8719.3	8749.9	8507.2	6703.8
77.5°	119.7	125.2	264.2	533.4	845.7	1390.3	4915.0	7891.0	7973.7	7692.0	5894.2
80°	87.7	91.8	127.3	371.4	484.1	612.0	2695.6	6465.9	6722.5	6575.7	4519.2
82.5°	61.9	66.8	93.2	244.8	319.9	406.9	1012.6	3511.4	3919.1	3895.3	2230.5
85°	38.9	42.4	58.4	87.7	121.7	163.4	285.1	1802.7	2068.4	2180.3	975.1
87.5°	18.1	20.9	32.6	52.1	74.4	86.3	86.3	386.7	481.9	511.8	208.0
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°	1292.2	1292.2	1292.2	1292.2	1292.2	1292.2	1292.2	1292.2	1292.2	1292.2	1292.2
2.5°	1284.6	1292.9	1274.8	1264.4	1242.8	1232.3	1226.8	1216.4	1213.6	1218.5	1223.3
5°	1314.5	1316.5	1279.7	1248.4	1221.2	1190.7	1176.1	1145.4	1132.3	1137.1	1142.7
7.5°	1352.8	1349.3	1292.9	1246.3	1197.6	1155.2	1125.3	1076.6	1062.7	1059.3	1066.9
10°	1388.9	1371.5	1308.9	1245.6	1180.9	1122.5	1076.6	1025.1	991.7	987.6	989.0
12.5°	1454.3	1420.9	1348.5	1259.5	1181.6	1117.7	1050.9	975.1	936.1	923.6	923.6
15°	1544.7	1489.1	1420.9	1318.6	1226.1	1135.0	1039.8	941.0	872.8	842.9	842.2
17.5°	1642.0	1594.7	1522.4	1400.7	1279.0	1149.7	1015.4	887.5	797.7	755.3	751.2
20°	1776.3	1749.2	1666.4	1499.4	1329.8	1151.7	984.8	821.3	700.4	642.6	630.1
22.5°	1966.1	1929.2	1790.9	1576.7	1347.1	1134.3	926.4	714.9	566.1	490.3	482.7
25°	2162.3	2105.9	1911.8	1630.9	1360.4	1099.5	842.2	567.5	406.9	335.9	326.9
27.5°	2379.3	2290.9	2015.5	1682.4	1344.4	1039.8	693.4	395.0	264.2	219.1	210.1
30°	2631.0	2502.3	2126.8	1717.9	1327.0	918.7	513.3	256.0	171.1	137.7	135.7
32.5°	2943.2	2765.3	2236.7	1735.3	1264.4	760.9	331.7	163.4	105.7	89.0	86.3
35°	3316.0	3067.8	2384.1	1731.8	1162.2	550.8	208.0	96.0	70.3	67.4	67.4
37.5°	3669.4	3397.4	2560.7	1717.1	1000.1	351.3	118.9	62.6	61.2	70.3	74.4
40°	4026.9	3719.4	2751.3	1677.5	794.9	211.5	66.0	55.6	58.4	68.9	73.0
42.5°	4337.7	3973.2	2935.6	1591.2	559.8	113.4	58.4	52.1	54.9	59.8	60.5
45°	4588.8	4209.1	3035.1	1470.3	331.7	71.6	55.6	50.0	48.0	50.0	50.8
47.5°	4858.6	4410.0	3115.8	1291.5	179.4	70.3	54.9	46.6	42.4	41.0	42.4
50°	5059.6	4623.6	3144.3	1027.3	94.5	67.4	52.1	42.4	38.3	41.0	41.8
52.5°	5253.7	4787.7	3131.1	717.0	80.0	61.9	48.0	39.6	36.1	44.5	46.6
55°	5512.4	4990.1	3035.8	349.1	77.9	58.4	43.1	34.8	34.8	34.8	34.8
57.5°	5748.9	5129.2	2845.2	159.3	75.1	53.5	38.9	31.3	26.4	29.3	29.9
60°	5993.6	5344.1	2520.4	101.5	70.9	46.6	33.4	27.1	23.0	23.0	23.6
62.5°	6236.3	5390.0	2069.0	89.7	67.4	42.4	29.3	23.6	19.5	19.5	20.9
65°	6436.7	5313.5	1523.8	80.0	64.0	38.3	26.4	21.5	16.6	16.0	16.6
67.5°	6360.9	4940.0	989.6	71.6	58.4	34.8	23.0	19.5	15.3	12.5	13.2
70°	6064.6	4377.4	534.8	68.9	52.9	32.0	20.9	17.4	13.9	10.4	10.4
72.5°	5587.5	3688.9	201.0	64.0	48.6	27.8	18.8	17.4	13.2	8.4	7.6
75°	4805.8	2785.4	95.3	57.8	41.0	25.0	18.8	18.1	13.2	5.5	4.9
77.5°	3855.1	1553.7	73.0	48.6	33.4	20.9	18.8	17.4	7.6	2.8	2.1
80°	2071.8	583.5	54.9	35.5	24.4	16.0	17.4	12.5	3.5	0.7	0.0
82.5°	822.1	143.9	38.3	16.0	10.4	7.0	9.8	4.9	0.7	0.0	0.0
85°	207.2	56.4	23.6	8.4	5.5	3.5	1.4	0.0	0.0	0.0	0.0
87.5°	23.6	16.0	7.0	4.1	2.1	0.7	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)