

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: P322148

Luminaire Tested: **GAN-SA4A-727-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322148
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4A-727-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11456 lumens
Efficiency: N/A
Efficacy: 88.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 129
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: 24 FT

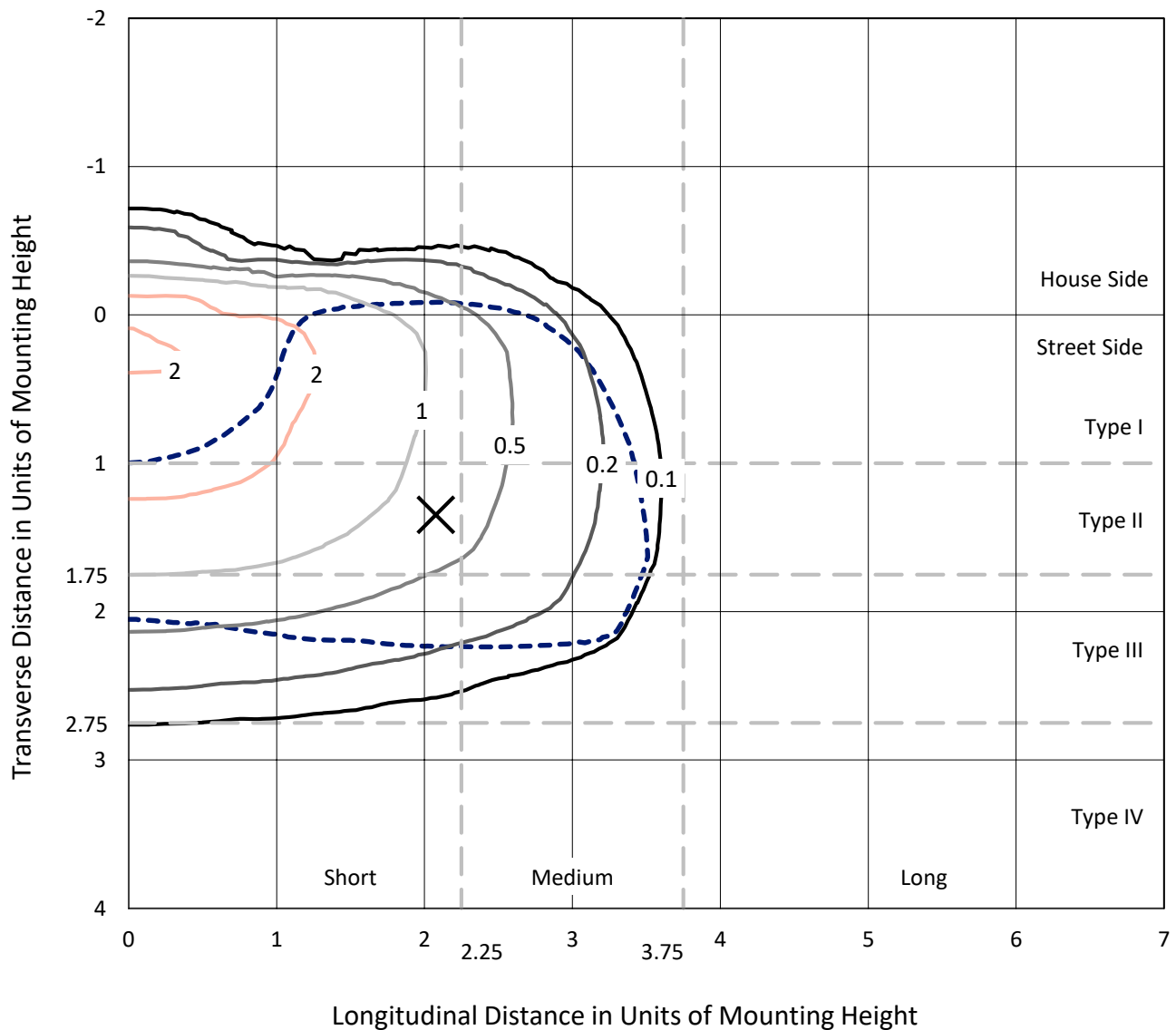


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Iso-Footcandle Lines of Horizontal Illumination

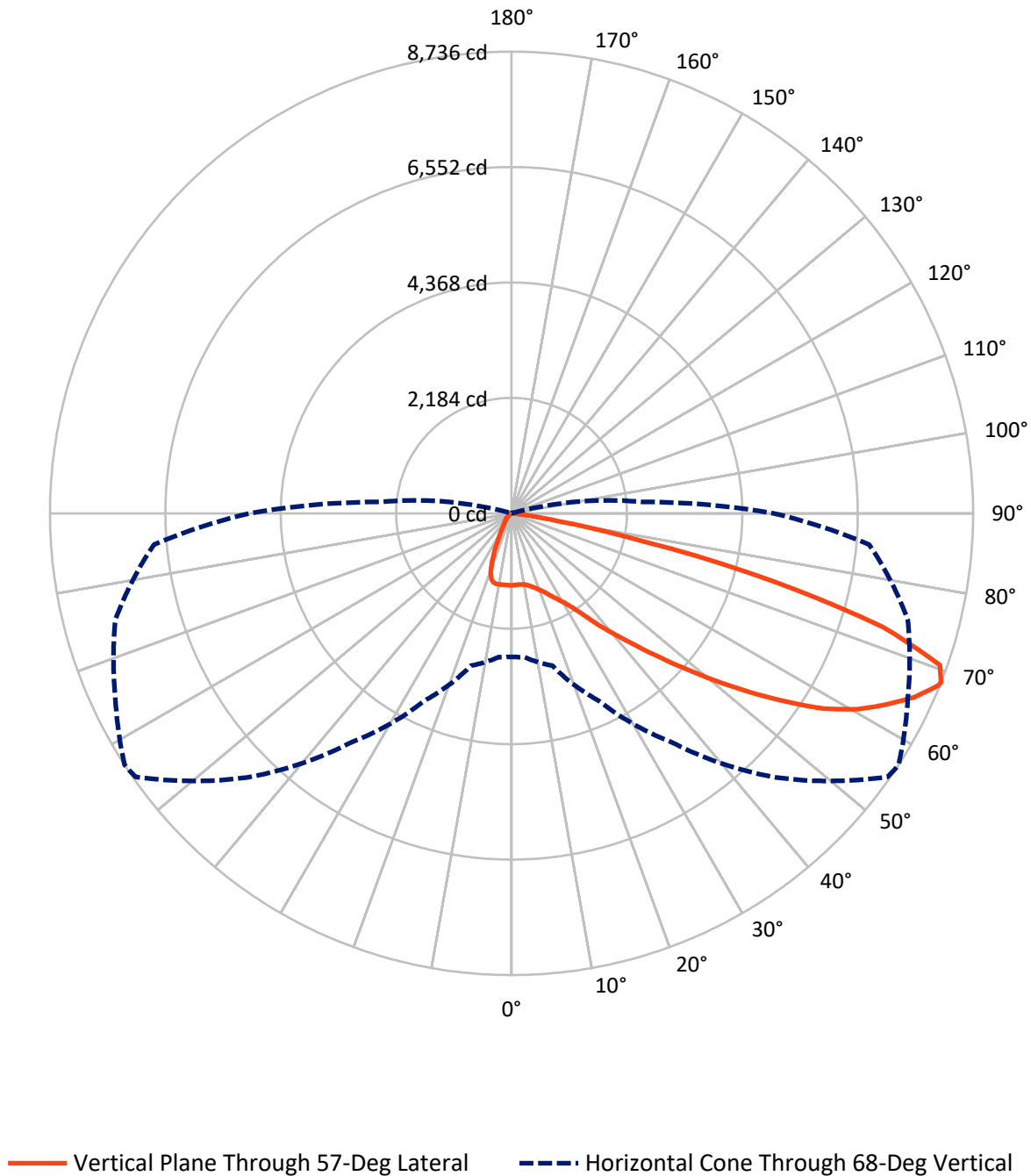
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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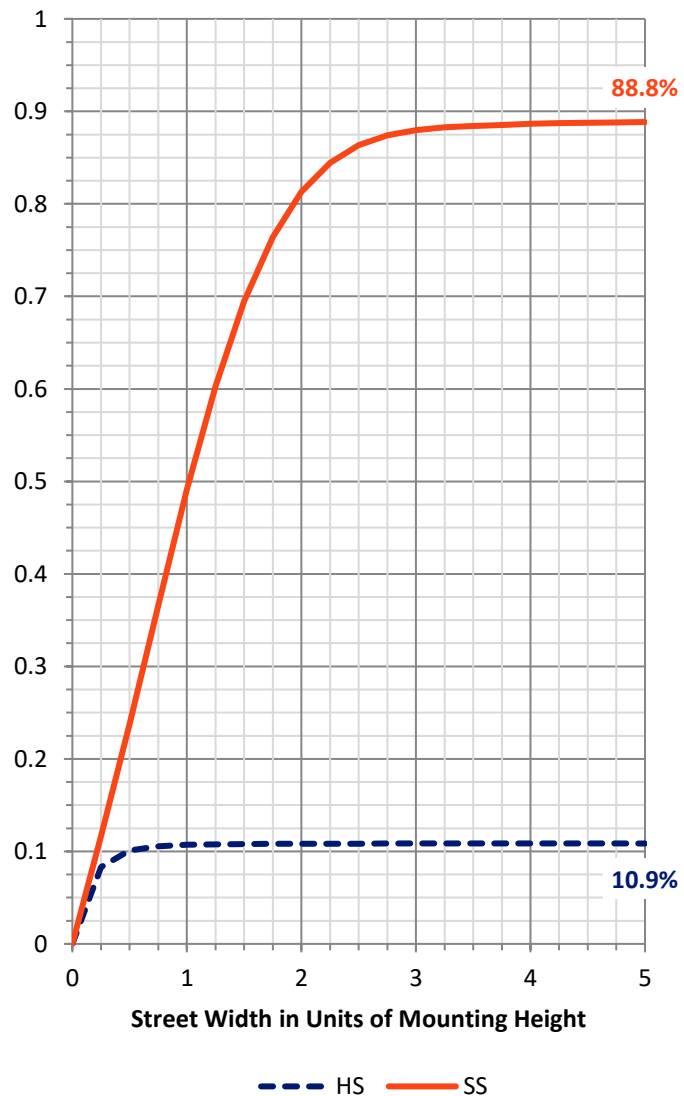
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1256.2	0.0	1256.2
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	10199.8	0.0	10199.8
	% Fixture	89.0	0.0	89.0
Total	Lumens	11456.0	0.0	11456.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.4	1.1
10°-20°	353.0	3.1
20°-30°	609.0	5.3
30°-40°	1051.1	9.2
40°-50°	1797.9	15.7
50°-60°	2876.5	25.1
60°-70°	3323.5	29.0
70°-80°	1270.0	11.1
80°-90°	47.6	0.4
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°	11456.0	100.0
0°-180°	11456.0	100.0

Coefficient of Utilization



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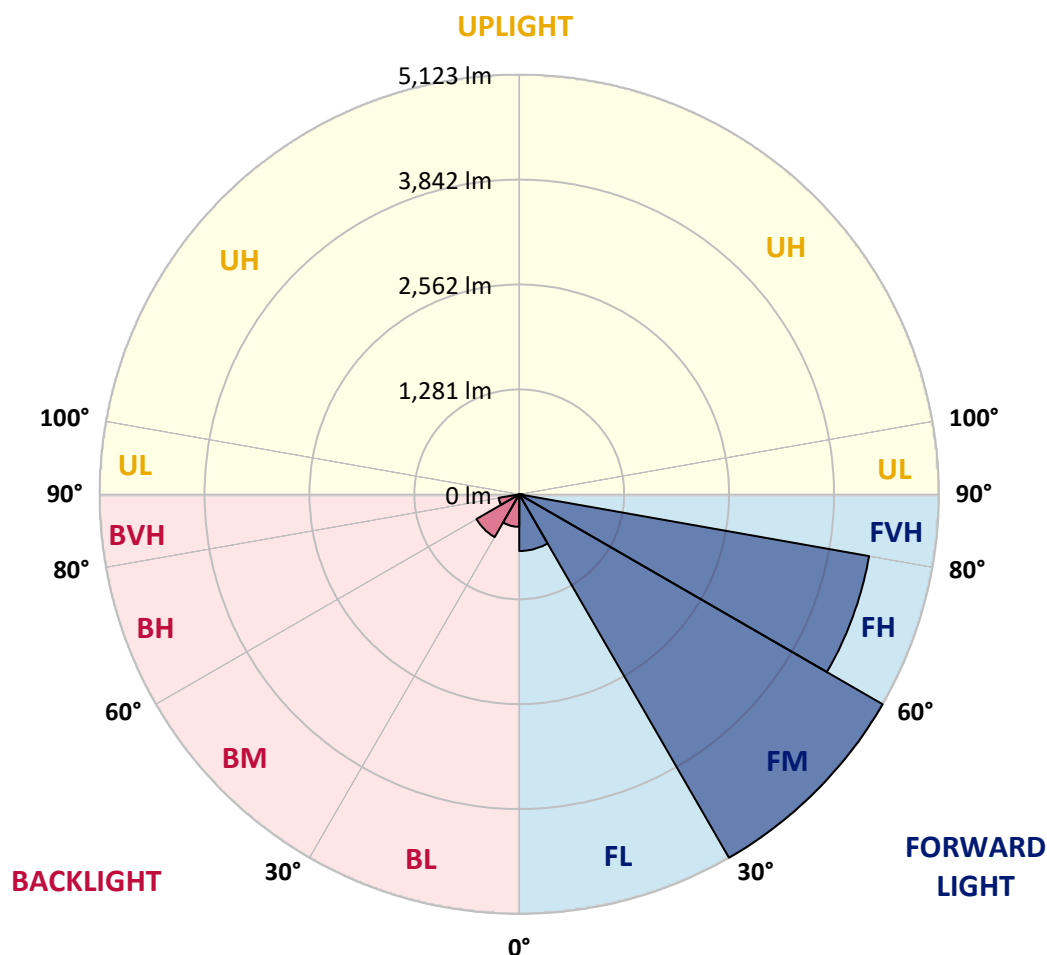
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	692.4	6.0			
FM	(30°-60°)	5123.0	44.7			
FH	(60°-80°)	4337.6	37.9			G2/5000
FVH	(80°-90°)	46.7	0.4			G1/100
BL	(0°-30°)	397.0	3.5	B1/500		
BM	(30°-60°)	602.5	5.3	B1/1000		
BH	(60°-80°)	255.8	2.2	B1/500		G1/500
BVH	(80°-90°)	0.9	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	1361.3	1361.3	1361.3	1361.3	1361.3	1361.3	1361.3	1361.3	1361.3	1361.3	1361.3
2.5°	1329.3	1335.3	1339.6	1342.3	1345.6	1352.6	1354.8	1358.0	1359.6	1359.6	1363.4
5°	1276.8	1283.3	1292.5	1300.1	1315.2	1334.7	1348.8	1354.2	1364.0	1372.7	1377.5
7.5°	1228.0	1235.6	1246.4	1264.3	1290.3	1321.7	1351.0	1358.6	1377.5	1395.9	1405.2
10°	1196.6	1202.6	1216.6	1242.1	1276.2	1320.1	1361.3	1370.5	1403.0	1433.9	1451.2
12.5°	1185.8	1191.2	1205.8	1234.5	1276.8	1328.2	1385.1	1398.7	1446.3	1491.3	1515.7
15°	1201.5	1202.6	1218.3	1245.4	1287.1	1348.3	1424.7	1440.9	1501.0	1559.5	1589.9
17.5°	1262.1	1257.3	1265.4	1277.3	1310.4	1374.8	1466.4	1490.7	1570.9	1639.7	1668.4
20°	1413.8	1413.8	1395.4	1362.9	1363.4	1416.0	1522.7	1550.3	1648.4	1728.0	1754.0
22.5°	1673.3	1668.4	1631.6	1552.0	1478.8	1486.9	1591.5	1627.2	1741.5	1826.6	1835.3
25°	1985.3	1979.3	1922.5	1810.3	1683.6	1601.8	1684.7	1725.8	1852.6	1927.9	1910.0
27.5°	2315.7	2310.9	2254.5	2115.3	1934.9	1784.9	1795.7	1834.7	1965.8	2040.0	1983.1
30°	2635.9	2637.5	2581.7	2438.7	2234.5	2018.3	1936.6	1959.3	2075.8	2151.1	2069.8
32.5°	2940.3	2942.5	2894.3	2734.5	2543.8	2289.7	2131.6	2125.6	2203.6	2277.8	2184.6
35°	3211.7	3217.1	3184.1	3060.0	2858.0	2592.0	2384.5	2370.4	2385.1	2469.0	2360.7
37.5°	3473.3	3476.6	3451.7	3347.1	3178.1	2924.1	2704.1	2684.1	2652.7	2717.1	2593.1
40°	3759.9	3751.8	3723.1	3628.3	3483.1	3290.8	3047.6	3012.9	2958.2	3015.6	2898.6
42.5°	4026.4	4017.2	4022.1	3914.8	3792.4	3667.8	3447.9	3388.3	3356.3	3422.4	3273.5
45°	4359.5	4354.7	4370.9	4277.8	4178.6	4088.2	3906.7	3841.7	3827.6	3905.1	3726.8
47.5°	4688.4	4700.3	4750.6	4711.1	4671.0	4591.4	4392.6	4363.3	4372.0	4465.7	4205.2
50°	4962.5	4976.5	5114.7	5160.2	5218.1	5171.5	4972.2	4954.3	4988.5	5073.0	4719.8
52.5°	5160.7	5189.4	5361.1	5570.8	5782.0	5813.5	5614.6	5598.4	5644.4	5657.4	5117.4
55°	5298.3	5323.8	5518.2	5901.7	6331.9	6467.3	6343.8	6280.9	6272.3	6143.9	5535.6
57.5°	5322.7	5320.0	5599.5	6115.7	6763.0	7112.4	7034.4	6972.7	6795.0	6593.5	6015.0
60°	5185.1	5200.8	5525.3	6189.9	7033.9	7600.5	7606.5	7526.3	7249.5	7030.6	6479.7
62.5°	4761.5	4825.4	5153.1	5995.5	7030.6	7797.1	8025.7	7964.5	7633.5	7388.7	6951.0
65°	4074.6	4097.4	4409.9	5329.2	6555.6	7714.8	8403.3	8380.5	7979.7	7736.5	7193.1
67.5°	2975.5	2926.2	3254.5	4196.5	5550.2	7234.9	8674.1	8702.8	8246.7	7808.0	6935.3
68°	2715.5	2730.1	2985.8	3916.4	5286.9	7065.3	8692.0	8735.9	8273.3	7761.4	6794.5
70°	1618.6	1646.7	1874.8	2696.5	4022.1	6106.0	8499.2	8599.4	8115.1	7280.9	5876.8
72.5°	413.3	446.9	662.5	1206.9	2297.3	4302.1	7174.7	7344.3	7045.8	5906.6	3967.4
75°	170.1	178.8	236.7	397.6	855.9	1938.2	4729.0	5091.9	4884.4	3536.2	1793.0
77.5°	117.5	123.5	152.2	220.5	370.5	657.1	2318.4	2580.6	2324.9	1206.9	391.1
80°	84.5	89.4	108.9	146.8	212.9	234.6	755.7	873.8	693.9	264.9	97.0
82.5°	50.4	54.2	81.3	104.5	129.5	112.1	188.0	213.4	201.0	131.6	43.3
85°	24.9	29.3	54.7	74.8	69.9	47.1	57.4	63.9	79.1	80.2	23.3
87.5°	1.6	3.3	32.0	45.0	19.5	10.8	16.8	20.6	28.2	39.5	9.8
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°	1361.3	1361.3	1361.3	1361.3	1361.3	1361.3	1361.3	1361.3	1361.3	1361.3	1361.3
2.5°	1365.1	1365.6	1361.8	1360.2	1361.3	1354.8	1352.1	1353.1	1353.1	1354.8	1352.1
5°	1378.6	1378.6	1372.1	1363.4	1358.6	1346.1	1338.0	1335.8	1334.2	1333.1	1330.9
7.5°	1407.9	1404.6	1393.2	1374.3	1358.0	1330.9	1310.4	1299.5	1294.1	1291.9	1290.3
10°	1455.0	1449.0	1430.1	1394.9	1357.5	1309.3	1264.3	1232.4	1205.8	1195.0	1188.5
12.5°	1518.4	1509.7	1477.7	1419.2	1353.7	1264.9	1167.3	1073.6	986.4	950.7	932.8
15°	1591.5	1579.0	1528.7	1439.8	1331.5	1164.6	952.8	788.7	667.9	622.4	602.9
17.5°	1665.7	1649.5	1573.1	1452.8	1264.9	957.2	668.4	504.9	424.1	402.5	394.9
20°	1740.5	1716.6	1611.5	1443.1	1114.3	690.1	440.9	368.9	345.6	339.1	336.9
22.5°	1811.4	1774.6	1646.2	1405.2	882.4	463.1	348.9	326.1	318.5	314.7	313.6
25°	1873.2	1821.7	1676.5	1288.1	624.6	349.9	314.2	306.6	296.8	289.8	290.3
27.5°	1931.1	1868.8	1695.0	1095.3	416.6	299.0	290.9	280.6	262.7	252.4	252.4
30°	2001.0	1931.7	1708.5	842.9	306.6	264.3	257.8	242.1	217.8	204.2	204.2
32.5°	2106.1	2027.0	1699.8	591.5	254.1	232.4	217.2	195.6	169.0	156.0	155.5
35°	2267.0	2174.4	1638.1	387.9	224.3	202.1	177.7	151.1	127.8	117.0	116.5
37.5°	2483.7	2371.5	1499.4	277.3	201.0	173.9	144.6	115.4	98.0	91.0	90.5
40°	2764.8	2600.7	1301.1	224.8	179.3	146.8	111.6	89.4	77.5	72.0	72.6
42.5°	3102.3	2846.1	1063.3	193.9	158.2	120.8	87.2	70.4	62.8	59.0	58.0
45°	3477.1	3088.2	814.2	172.8	137.0	97.5	68.3	55.8	49.8	47.7	47.7
47.5°	3889.4	3323.8	595.9	154.4	114.3	75.3	54.7	45.5	40.6	39.0	38.5
50°	4263.7	3487.4	429.6	134.9	93.7	59.6	44.4	37.9	34.7	32.5	32.5
52.5°	4575.7	3538.9	316.3	113.8	75.8	47.7	36.8	32.5	29.3	27.6	27.6
55°	4850.3	3517.8	235.1	93.7	61.2	39.0	31.4	27.6	24.9	23.3	23.3
57.5°	5113.6	3449.5	175.5	76.4	49.3	31.4	26.5	23.3	20.6	19.5	19.5
60°	5328.6	3335.7	130.5	61.8	39.5	25.5	22.2	19.0	16.8	15.2	15.2
62.5°	5503.1	3210.1	95.9	50.9	31.4	20.0	17.3	15.7	12.5	10.8	10.8
65°	5504.1	3001.5	72.0	42.3	24.4	15.7	13.0	12.5	8.1	6.5	6.0
67.5°	5106.0	2587.7	55.3	36.3	19.0	11.9	9.8	10.3	4.3	2.7	2.2
68°	4961.4	2482.6	52.0	35.8	17.9	11.4	9.2	10.3	3.8	2.2	1.6
70°	4183.0	1975.0	41.7	34.7	15.7	8.7	7.6	10.3	3.3	1.6	1.1
72.5°	2675.4	1146.2	30.9	27.6	11.9	6.5	4.9	9.2	3.3	1.1	0.5
75°	1138.6	355.4	21.1	19.5	7.0	4.9	3.3	6.0	2.2	0.5	0.0
77.5°	240.0	80.2	12.5	11.9	4.9	3.3	2.2	1.6	0.5	0.0	0.0
80°	61.8	23.3	6.5	6.0	2.7	1.6	1.1	0.0	0.0	0.0	0.0
82.5°	19.5	9.2	3.8	2.7	1.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	9.8	5.4	2.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.4	1.6	0.5	0.0	0.0	0.0	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)