

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: P322486

Luminaire Tested: **GAN-SA2C-727-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322486
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2C-727-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8594 lumens
Efficiency: N/A
Efficacy: 76.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 113
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

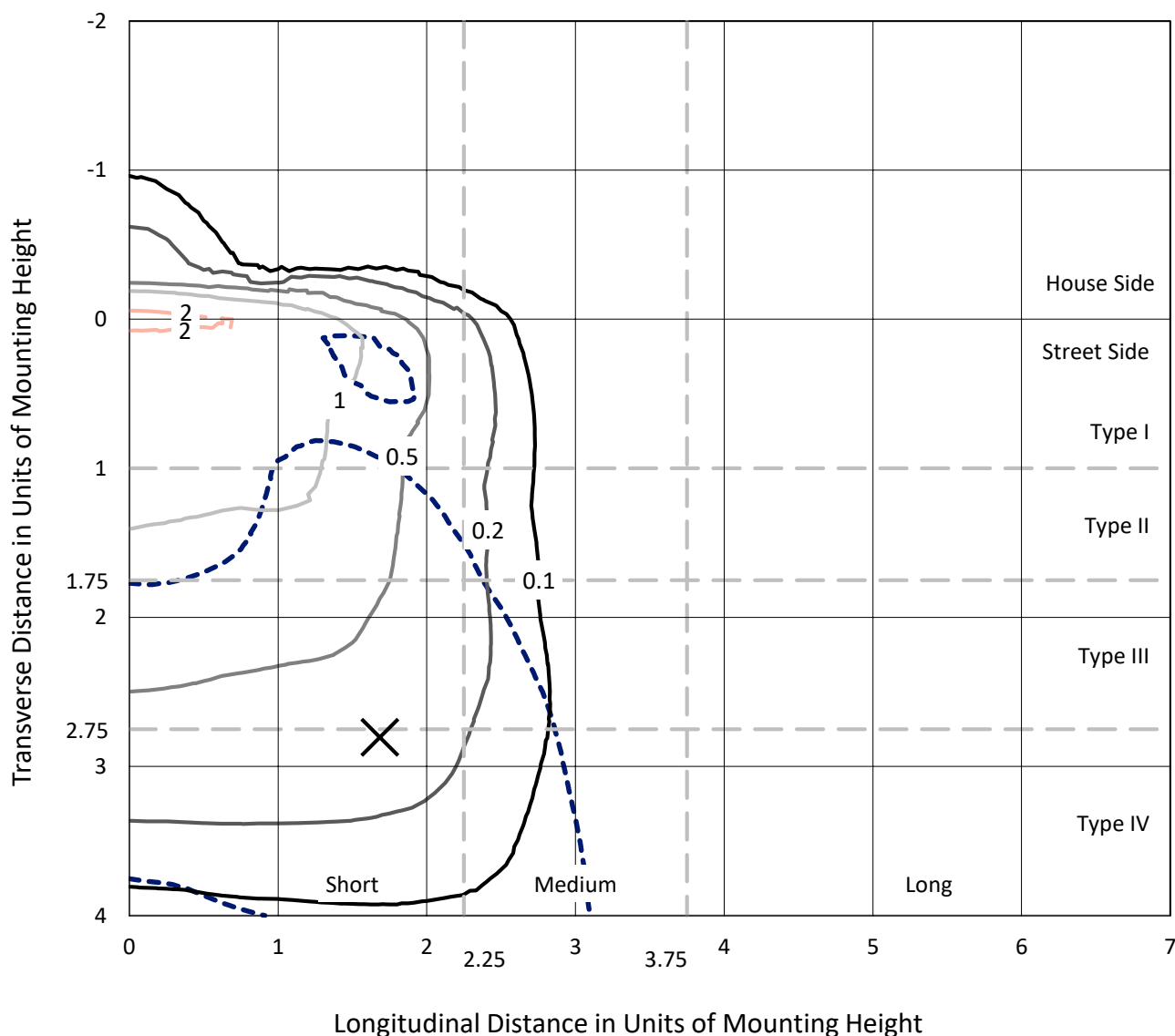


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

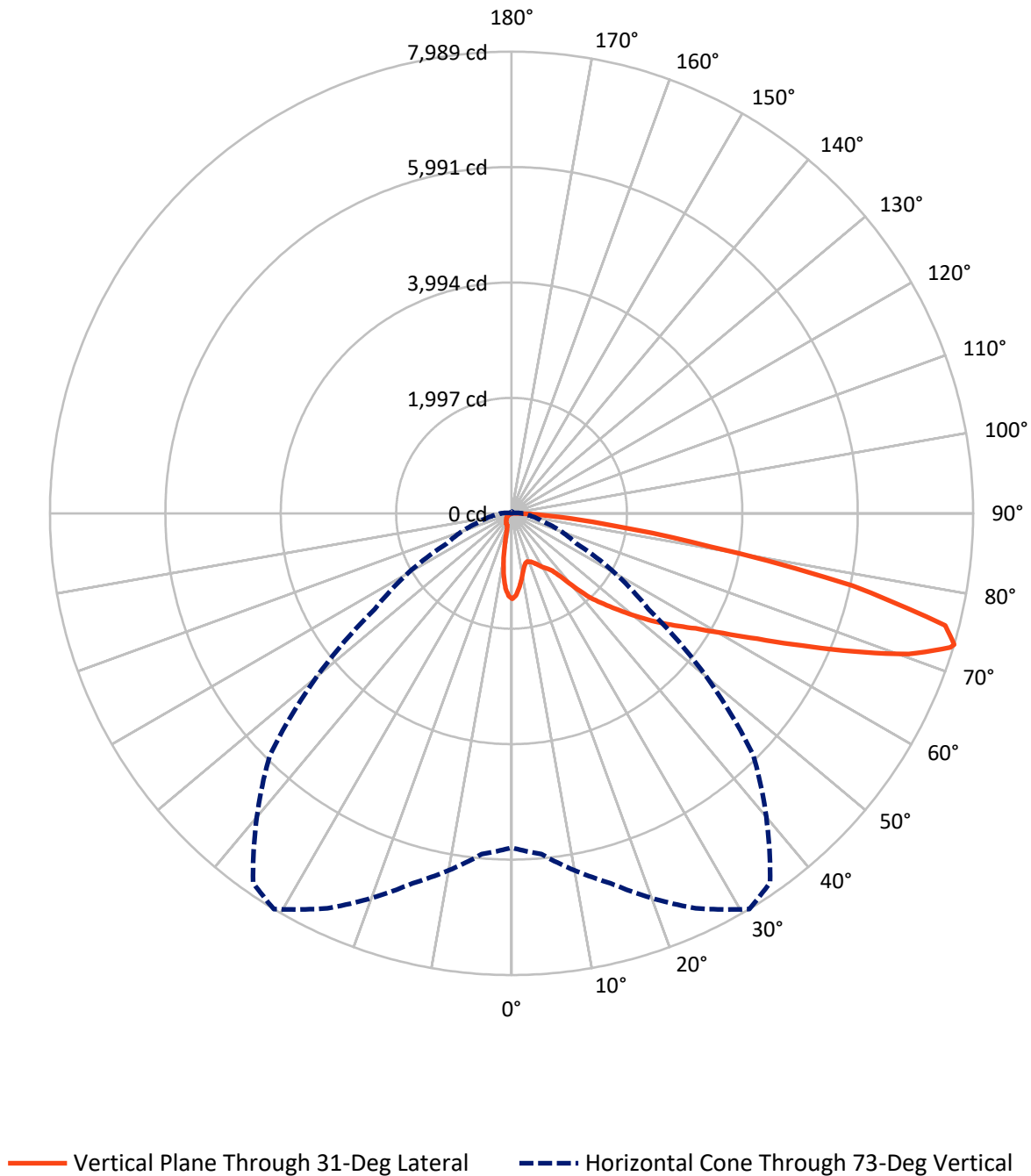
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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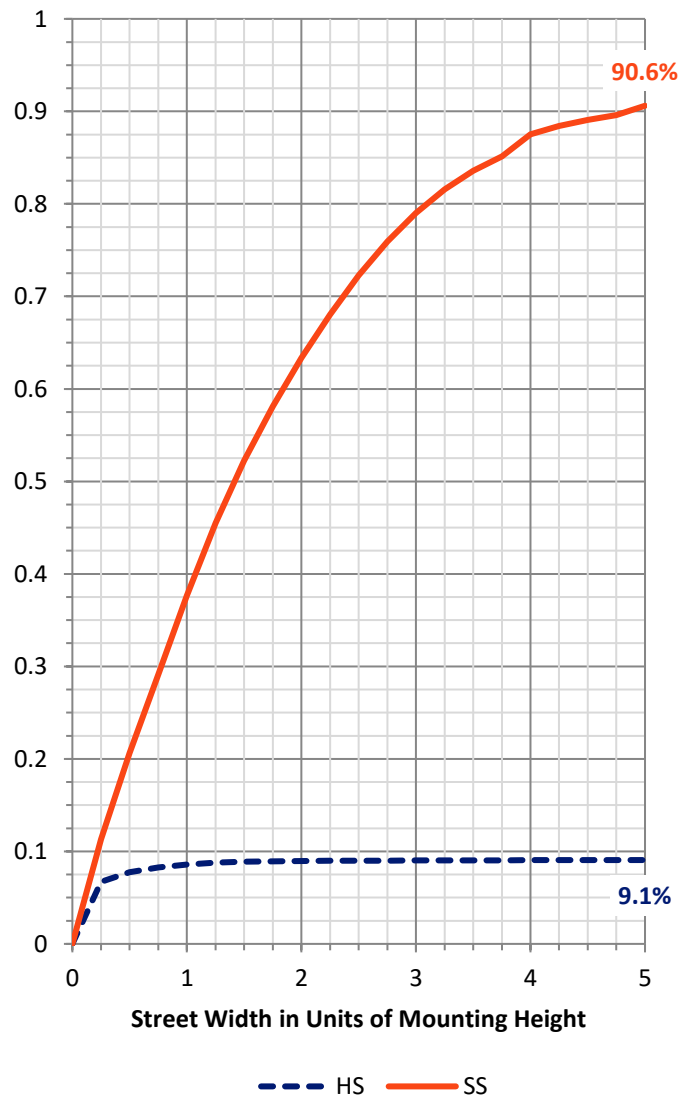
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	783.4	0.0	783.4
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	7810.6	0.0	7810.6
	% Fixture	90.9	0.0	90.9
Total	Lumens	8594.0	0.0	8594.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.6	1.4
10°-20°	266.2	3.1
20°-30°	398.8	4.6
30°-40°	634.6	7.4
40°-50°	1133.1	13.2
50°-60°	1758.3	20.5
60°-70°	2337.4	27.2
70°-80°	1758.2	20.5
80°-90°	184.8	2.1
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°	8594.0	100.0
0°-180°	8594.0	100.0

Coefficient of Utilization



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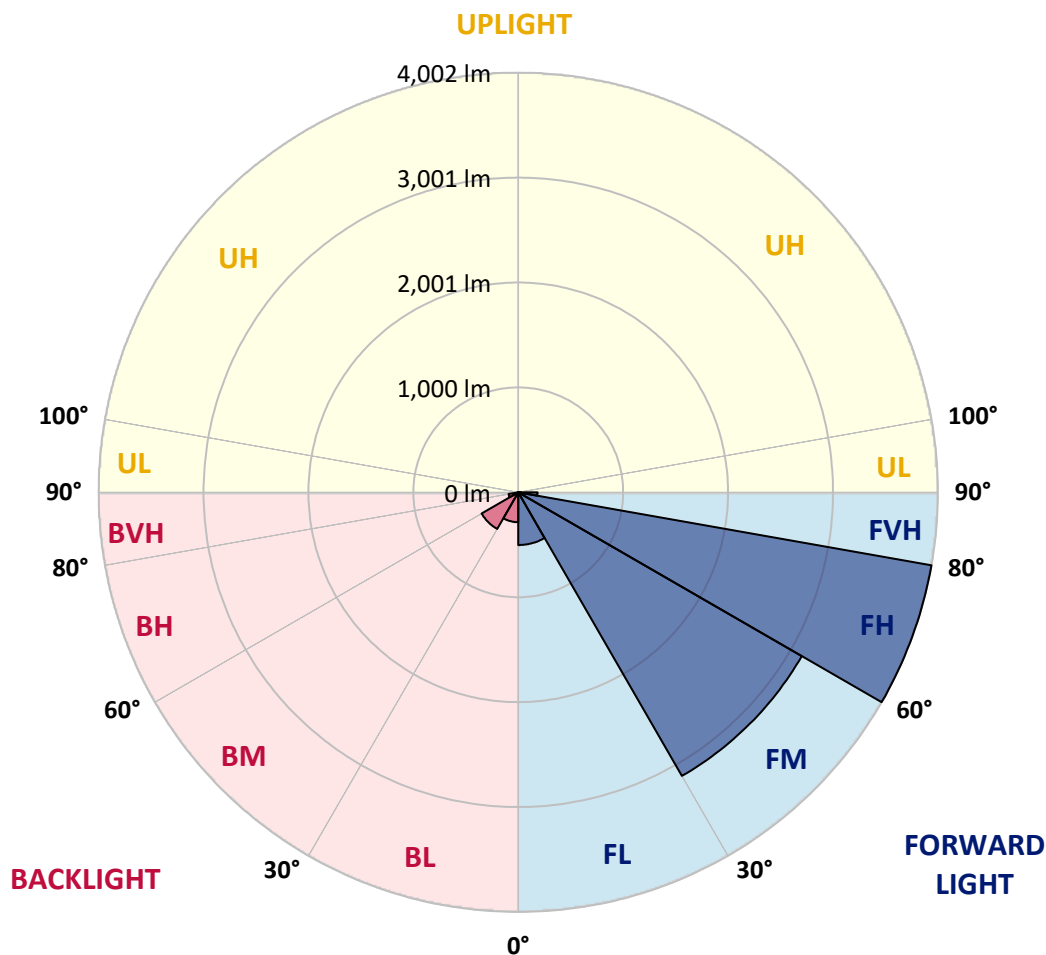
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	502.8	5.9			
FM	(30°-60°)	3122.8	36.3			
FH	(60°-80°)	4001.9	46.6			G2/5000
FVH	(80°-90°)	183.2	2.1			G2/225
BL	(0°-30°)	284.9	3.3	B1/500		
BM	(30°-60°)	403.2	4.7	B1/1000		
BH	(60°-80°)	93.7	1.1	B0/110		G0/110
BVH	(80°-90°)	1.6	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	1478.6	1478.6	1478.6	1478.6	1478.6	1478.6	1478.6	1478.6	1478.6	1478.6	1478.6
2.5°	1401.2	1407.1	1413.4	1414.7	1425.2	1425.6	1440.8	1452.1	1463.5	1474.4	1478.2
5°	1257.4	1267.1	1278.4	1289.8	1312.1	1320.9	1357.9	1395.8	1431.9	1466.4	1483.2
7.5°	1103.9	1114.8	1130.8	1159.0	1183.8	1201.1	1259.5	1326.8	1394.1	1457.6	1494.2
10°	963.9	974.0	990.8	1020.6	1058.9	1082.5	1161.1	1254.5	1353.3	1449.6	1510.6
12.5°	874.7	880.2	889.4	921.4	955.9	982.4	1074.9	1190.5	1319.7	1449.2	1537.1
15°	858.3	860.0	852.4	866.7	893.6	919.3	1013.1	1138.8	1294.0	1455.9	1571.6
17.5°	884.4	883.6	858.3	856.6	878.1	899.1	982.8	1103.1	1275.9	1471.5	1616.1
20°	923.9	921.0	877.2	869.3	892.0	911.7	980.7	1089.6	1269.2	1497.5	1670.4
22.5°	976.5	971.4	902.9	894.5	918.9	939.5	1006.8	1102.7	1275.1	1532.4	1733.5
25°	1041.7	1034.1	947.1	937.8	962.6	983.2	1053.5	1140.1	1292.7	1574.9	1813.4
27.5°	1115.3	1104.3	1017.7	993.7	1021.9	1043.4	1115.7	1197.3	1320.5	1619.9	1911.3
30°	1184.7	1170.4	1092.1	1052.6	1087.1	1111.1	1183.0	1265.4	1365.1	1689.3	2045.5
32.5°	1254.5	1238.5	1158.6	1111.5	1142.6	1168.7	1252.4	1359.2	1448.8	1795.3	2223.8
35°	1415.1	1398.3	1300.3	1222.5	1222.1	1236.8	1349.5	1487.4	1559.4	1942.9	2436.6
37.5°	1685.5	1675.8	1582.5	1434.9	1395.3	1378.9	1482.0	1640.5	1718.3	2146.0	2676.7
40°	1981.6	1973.2	1868.5	1734.7	1674.6	1634.2	1672.1	1853.7	1942.9	2394.1	2921.9
42.5°	2315.9	2276.0	2089.2	2049.3	1995.5	1964.8	1930.7	2116.6	2218.8	2664.1	3165.0
45°	2619.5	2552.3	2310.0	2249.5	2237.3	2244.8	2263.8	2469.8	2529.1	2985.0	3407.2
47.5°	2800.4	2747.4	2561.5	2503.5	2500.1	2550.1	2693.1	2868.9	2838.2	3264.6	3620.4
50°	2972.4	2924.4	2770.1	2784.4	2799.9	2868.1	3180.5	3279.4	3120.4	3518.2	3816.0
52.5°	3111.6	3038.4	2957.7	3038.0	3114.5	3224.3	3683.5	3647.8	3320.6	3720.1	3983.3
55°	3191.9	3158.7	3197.8	3278.5	3422.3	3600.7	4158.3	3954.3	3466.9	3904.3	4094.8
57.5°	3486.3	3421.1	3498.9	3568.7	3756.3	4005.6	4565.0	4182.7	3572.5	4018.3	4120.4
60°	3842.5	3789.9	3835.7	3951.8	4205.0	4498.1	4945.1	4369.0	3627.6	4091.4	4054.0
62.5°	4409.4	4340.0	4311.4	4441.3	4776.9	5096.9	5233.6	4498.1	3615.4	4059.0	3826.1
65°	5168.8	5096.9	4969.1	5086.8	5513.7	5739.5	5556.2	4525.4	3531.3	3797.0	3249.9
67.5°	5946.8	5894.7	5785.4	5983.9	6369.1	6441.8	5897.2	4459.0	3260.4	3078.8	2296.1
70°	6460.7	6438.5	6509.5	6948.6	7292.1	7271.1	6210.1	4101.9	2541.3	1893.3	1135.9
72.5°	6090.2	6197.1	6721.9	7518.0	7937.7	7766.1	6049.5	3149.8	1452.5	728.4	328.4
73°	5783.3	5919.9	6626.4	7539.4	7988.6	7800.6	5914.5	2891.2	1238.1	574.9	249.0
75°	4023.3	4191.1	5485.9	7021.7	7750.5	7432.2	4930.0	1769.6	573.6	254.8	100.5
77.5°	1953.4	2077.5	3020.7	5073.4	6027.6	5806.8	3069.1	659.4	259.1	159.4	46.3
80°	729.2	810.8	1311.2	2582.1	3483.3	3574.6	1349.9	249.4	172.4	128.3	23.6
82.5°	190.9	212.8	483.6	1151.4	1785.2	1868.5	425.6	125.7	126.2	105.6	14.3
85°	61.0	69.8	151.0	516.8	841.1	738.5	111.0	61.0	91.7	78.6	8.0
87.5°	7.6	9.7	47.9	121.5	185.5	103.0	17.2	18.1	39.1	43.7	4.6
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°	1478.6	1478.6	1478.6	1478.6	1478.6	1478.6	1478.6	1478.6	1478.6	1478.6	1478.6
2.5°	1482.0	1479.9	1480.3	1469.4	1462.2	1447.9	1433.2	1426.5	1419.3	1416.4	1419.3
5°	1489.5	1485.8	1474.8	1441.2	1405.4	1359.2	1315.9	1283.1	1241.9	1230.5	1242.3
7.5°	1501.3	1493.8	1461.8	1393.2	1313.8	1225.5	1126.2	1053.9	994.6	956.3	970.2
10°	1518.6	1504.3	1439.9	1323.4	1181.3	1024.9	884.0	774.2	696.4	664.5	663.2
12.5°	1547.6	1520.7	1413.0	1232.6	1019.4	810.8	626.2	507.2	444.1	403.3	402.5
15°	1579.5	1540.0	1378.9	1123.7	831.0	580.8	403.3	312.9	272.1	259.1	257.4
17.5°	1618.7	1562.3	1334.8	989.5	633.8	384.8	263.3	237.2	235.5	234.2	234.2
20°	1667.9	1588.8	1278.0	836.0	449.6	256.9	223.7	225.4	226.3	224.6	225.0
22.5°	1725.1	1615.7	1210.3	671.2	304.0	214.9	214.1	216.2	217.0	216.2	216.6
25°	1791.5	1646.8	1127.9	498.3	219.5	204.0	206.1	209.0	211.1	211.1	211.1
27.5°	1873.9	1684.7	1028.6	347.8	189.7	192.6	198.5	204.0	206.9	207.7	207.7
30°	1981.2	1731.8	909.6	238.4	172.4	177.5	188.4	198.9	204.4	205.2	205.6
32.5°	2116.6	1784.8	771.7	176.2	157.7	161.5	173.3	190.9	201.4	203.1	203.1
35°	2271.8	1846.2	623.2	153.5	147.2	148.5	157.7	177.9	196.4	201.0	201.4
37.5°	2441.6	1906.7	473.9	143.4	138.4	138.4	145.1	162.3	184.2	198.5	200.2
40°	2600.2	1943.3	332.2	135.4	130.4	130.4	136.3	148.9	169.5	190.9	195.6
42.5°	2746.5	1955.9	231.3	127.8	122.8	124.1	129.1	139.2	154.8	176.2	180.4
45°	2897.1	1953.8	168.6	119.0	115.2	119.0	122.8	130.4	141.7	153.9	154.8
47.5°	3010.6	1936.2	133.7	110.6	108.1	113.1	116.5	121.5	127.8	127.0	127.0
50°	3117.0	1893.3	107.7	99.2	100.9	106.8	108.5	110.2	110.6	102.6	101.8
52.5°	3197.8	1826.4	86.2	87.1	93.8	99.7	98.0	95.5	91.3	81.6	79.9
55°	3224.7	1697.7	67.7	71.9	83.3	90.8	84.5	79.1	71.1	63.1	61.4
57.5°	3175.9	1531.6	55.1	55.9	70.2	76.5	69.4	63.1	54.2	47.5	46.3
60°	3072.5	1347.0	45.4	42.1	54.2	59.7	55.1	48.8	40.8	35.7	35.3
62.5°	2867.2	1150.2	37.4	32.8	41.2	45.8	42.9	38.3	31.5	28.2	27.8
65°	2435.8	920.1	30.3	26.5	32.0	35.7	33.2	29.9	24.8	22.3	21.9
67.5°	1700.2	622.0	24.8	21.9	25.2	28.2	26.1	24.4	19.8	19.3	19.8
70°	820.1	299.8	20.6	17.7	19.8	21.9	21.0	19.8	18.9	21.9	25.2
72.5°	235.1	100.5	16.4	14.7	16.0	17.2	18.1	17.7	20.6	26.5	30.7
73°	180.8	81.2	15.6	13.9	15.1	16.8	17.7	17.2	21.0	26.9	30.7
75°	77.4	39.1	11.8	11.4	12.6	14.7	15.6	15.6	21.0	27.3	29.4
77.5°	34.9	21.0	7.6	8.8	10.9	11.8	13.0	13.0	16.8	21.0	21.0
80°	19.8	11.4	5.9	6.7	8.0	8.0	8.0	7.1	7.6	8.4	9.3
82.5°	12.6	7.6	4.6	5.5	5.0	4.2	3.4	3.4	2.9	3.4	4.2
85°	7.1	4.2	4.2	3.4	2.1	1.7	2.1	1.7	0.4	0.0	0.4
87.5°	4.2	2.5	1.3	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)