

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: P322336

Luminaire Tested: **GAN-SA2D-760-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322336
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-SA2D-760-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5700K, 1200mA 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: 11569 lumens
Efficiency: N/A
Efficacy: 89.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' 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



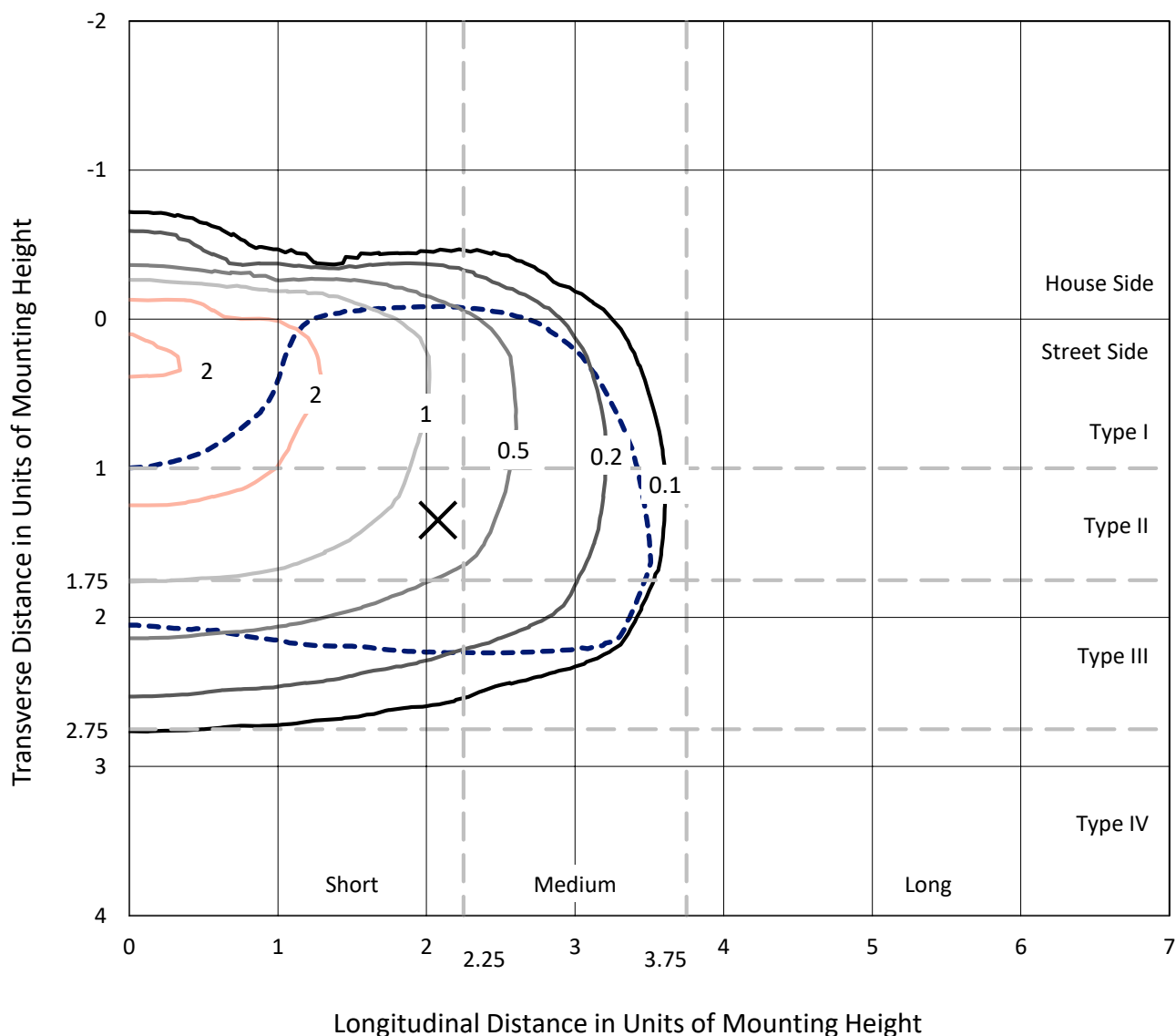
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

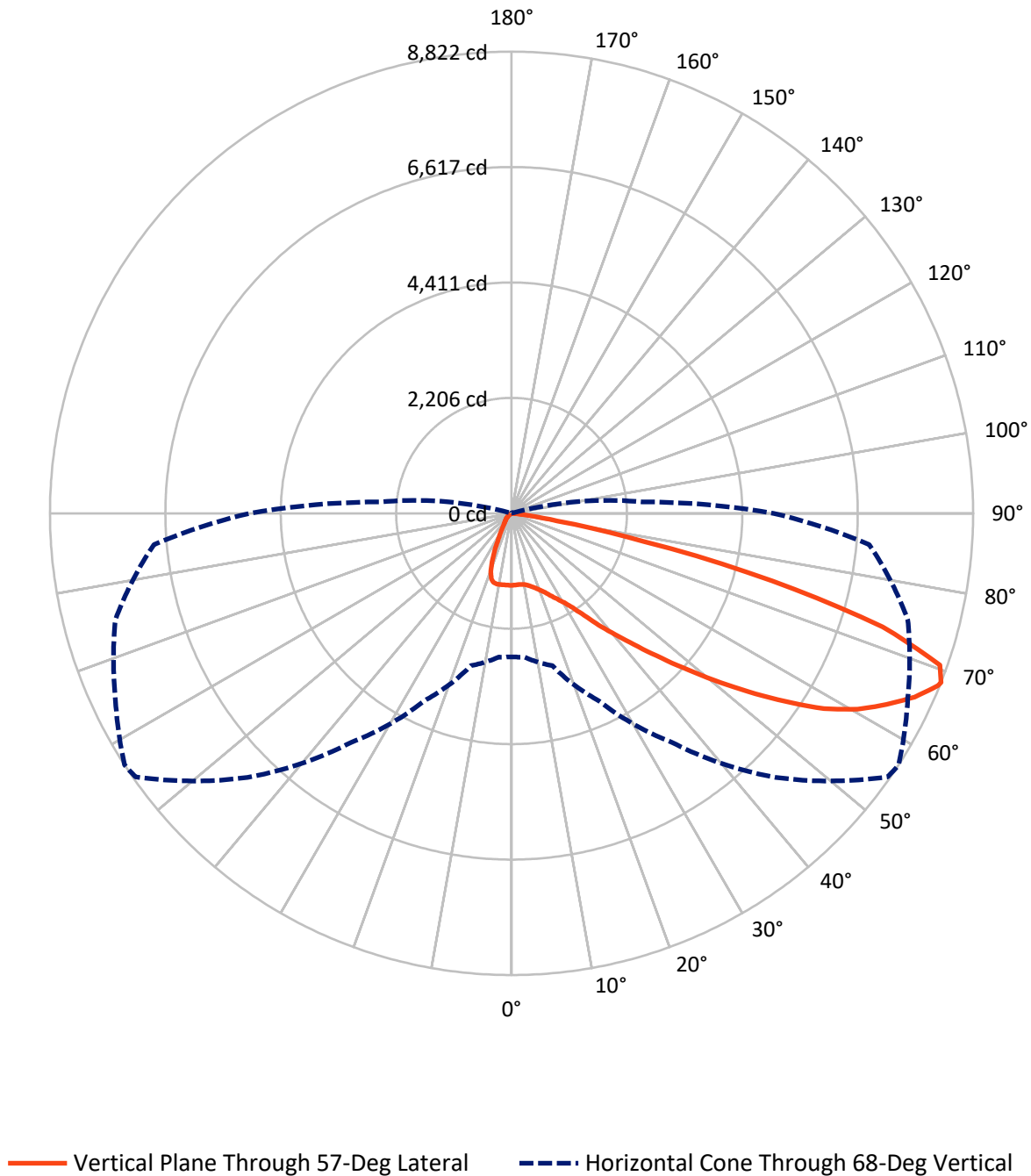


Based on 25 foot mounting height. Maximum calculated value = 2.8 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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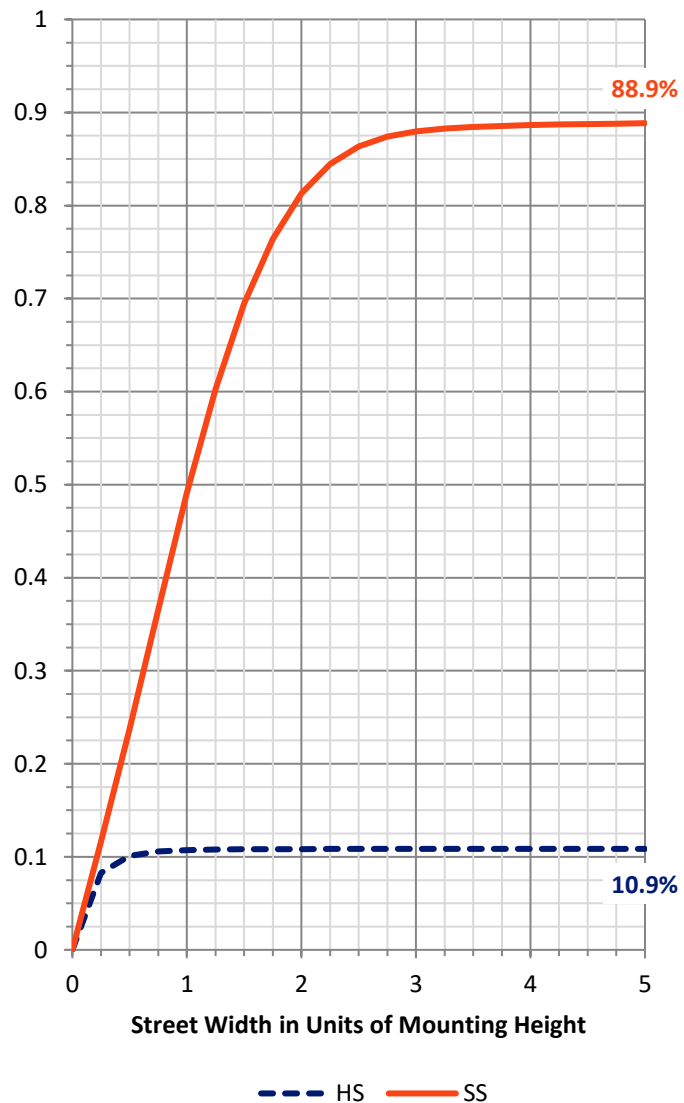
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1268.6	0.0	1268.6
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	10300.4	0.0	10300.4
	% Fixture	89.0	0.0	89.0
Total	Lumens	11569.0	0.0	11569.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.7	1.1
10°-20°	356.5	3.1
20°-30°	615.0	5.3
30°-40°	1061.5	9.2
40°-50°	1815.7	15.7
50°-60°	2904.9	25.1
60°-70°	3356.3	29.0
70°-80°	1282.5	11.1
80°-90°	48.1	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°	11569.0	100.0
0°-180°	11569.0	100.0

Coefficient of Utilization



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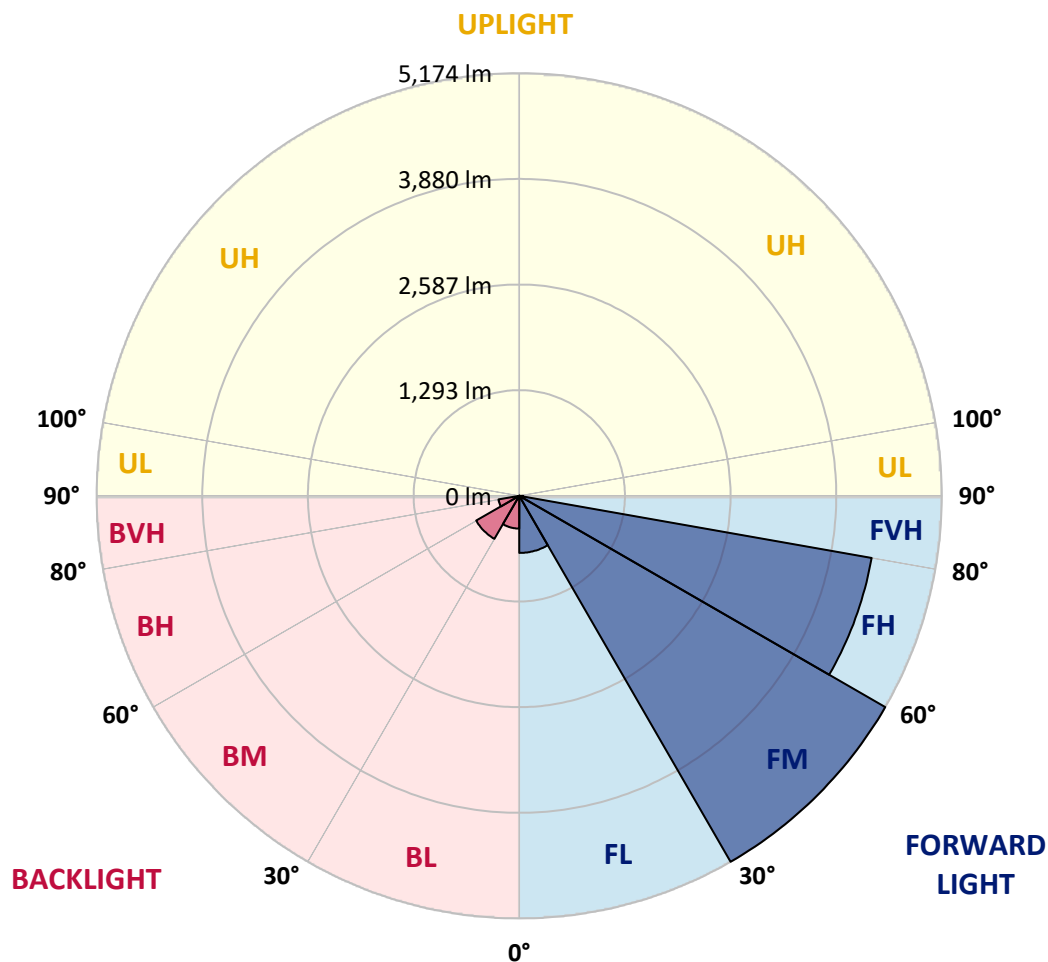
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	699.2	6.0			
FM	(30°-60°)	5173.6	44.7			
FH	(60°-80°)	4380.4	37.9			G2/5000
FVH	(80°-90°)	47.2	0.4			G1/100
BL	(0°-30°)	400.9	3.5	B1/500		
BM	(30°-60°)	608.4	5.3	B1/1000		
BH	(60°-80°)	258.4	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°	1374.7	1374.7	1374.7	1374.7	1374.7	1374.7	1374.7	1374.7	1374.7	1374.7	1374.7
2.5°	1342.4	1348.4	1352.8	1355.6	1358.8	1365.9	1368.1	1371.4	1373.1	1373.1	1376.9
5°	1289.4	1295.9	1305.2	1312.9	1328.2	1347.9	1362.1	1367.6	1377.4	1386.2	1391.1
7.5°	1240.1	1247.8	1258.7	1276.8	1303.0	1334.8	1364.3	1372.0	1391.1	1409.7	1419.0
10°	1208.4	1214.4	1228.6	1254.4	1288.8	1333.1	1374.7	1384.0	1416.8	1448.0	1465.5
12.5°	1197.5	1202.9	1217.7	1246.7	1289.4	1341.3	1398.8	1412.4	1460.6	1506.0	1530.6
15°	1213.3	1214.4	1230.3	1257.6	1299.8	1361.6	1438.7	1455.1	1515.8	1574.9	1605.6
17.5°	1274.6	1269.7	1277.9	1289.9	1323.3	1388.4	1480.8	1505.4	1586.4	1655.9	1684.9
20°	1427.8	1427.8	1409.2	1376.3	1376.9	1430.0	1537.7	1565.6	1664.6	1745.0	1771.3
22.5°	1689.8	1684.9	1647.7	1567.3	1493.4	1501.6	1607.2	1643.3	1758.7	1844.6	1853.4
25°	2004.9	1998.9	1941.4	1828.2	1700.2	1617.6	1701.3	1742.9	1870.9	1946.9	1928.8
27.5°	2338.6	2333.7	2276.8	2136.2	1954.0	1802.5	1813.4	1852.8	1985.2	2060.1	2002.7
30°	2661.9	2663.5	2607.2	2462.8	2256.5	2038.3	1955.7	1978.6	2096.2	2172.3	2090.2
32.5°	2969.3	2971.5	2922.8	2761.4	2568.9	2312.3	2152.6	2146.6	2225.3	2300.3	2206.2
35°	3243.4	3248.8	3215.5	3090.2	2886.2	2617.6	2408.1	2393.8	2408.6	2493.4	2384.0
37.5°	3507.6	3510.9	3485.7	3380.1	3209.5	2952.9	2730.8	2710.6	2678.8	2743.9	2618.7
40°	3797.0	3788.8	3759.8	3664.0	3517.4	3323.2	3077.6	3042.6	2987.4	3045.4	2927.2
42.5°	4066.1	4056.8	4061.7	3953.4	3829.8	3704.0	3481.9	3421.7	3389.4	3456.2	3305.7
45°	4402.5	4397.6	4414.0	4319.9	4219.8	4128.5	3945.2	3879.6	3865.4	3943.6	3763.6
47.5°	4734.6	4746.6	4797.5	4757.6	4717.1	4636.7	4435.9	4406.4	4415.1	4509.8	4246.6
50°	5011.4	5025.6	5165.1	5211.1	5269.6	5222.6	5021.2	5003.2	5037.7	5123.0	4766.3
52.5°	5211.6	5240.6	5414.0	5625.7	5839.1	5870.8	5670.0	5653.6	5700.1	5713.2	5167.9
55°	5350.6	5376.3	5572.7	5960.0	6394.3	6531.1	6406.3	6342.9	6334.1	6204.5	5590.2
57.5°	5375.2	5372.4	5654.7	6176.0	6829.7	7182.6	7103.8	7041.5	6862.0	6658.5	6074.3
60°	5236.2	5252.1	5579.8	6251.0	7103.3	7675.5	7681.5	7600.5	7321.0	7100.0	6543.6
62.5°	4808.4	4873.0	5204.0	6054.6	7100.0	7874.0	8104.9	8043.1	7708.8	7461.6	7019.6
65°	4114.8	4137.8	4453.4	5381.7	6620.2	7790.9	8486.2	8463.2	8058.4	7812.8	7264.1
67.5°	3004.9	2955.1	3286.6	4237.9	5604.9	7306.2	8759.7	8788.7	8328.1	7885.0	7003.7
68°	2742.3	2757.1	3015.3	3955.1	5339.1	7135.0	8777.7	8822.1	8354.9	7837.9	6861.5
70°	1634.5	1663.0	1893.3	2723.1	4061.7	6166.2	8583.0	8684.2	8195.2	7352.7	5934.8
72.5°	417.4	451.3	669.0	1218.8	2320.0	4344.6	7245.5	7416.7	7115.3	5964.9	4006.5
75°	171.8	180.5	239.1	401.5	864.3	1957.3	4775.6	5142.1	4932.6	3571.1	1810.7
77.5°	118.7	124.7	153.7	222.6	374.2	663.6	2341.3	2606.1	2347.9	1218.8	395.0
80°	85.3	90.3	110.0	148.2	215.0	236.9	763.1	882.4	700.8	267.5	97.9
82.5°	50.9	54.7	82.1	105.6	130.7	113.2	189.8	215.5	203.0	132.9	43.8
85°	25.2	29.5	55.3	75.5	70.6	47.6	58.0	64.6	79.9	81.0	23.5
87.5°	1.6	3.3	32.3	45.4	19.7	10.9	17.0	20.8	28.4	39.9	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°	1374.7	1374.7	1374.7	1374.7	1374.7	1374.7	1374.7	1374.7	1374.7	1374.7	1374.7
2.5°	1378.5	1379.1	1375.2	1373.6	1374.7	1368.1	1365.4	1366.5	1366.5	1368.1	1365.4
5°	1392.2	1392.2	1385.6	1376.9	1372.0	1359.4	1351.2	1349.0	1347.4	1346.3	1344.1
7.5°	1421.7	1418.5	1407.0	1387.8	1371.4	1344.1	1323.3	1312.3	1306.9	1304.7	1303.0
10°	1469.3	1463.3	1444.2	1408.6	1370.9	1322.2	1276.8	1244.5	1217.7	1206.8	1200.2
12.5°	1533.3	1524.6	1492.3	1433.2	1367.0	1277.3	1178.9	1084.2	996.2	960.0	942.0
15°	1607.2	1594.6	1543.7	1454.0	1344.6	1176.1	962.2	796.5	674.5	628.5	608.9
17.5°	1682.1	1665.7	1588.6	1467.2	1277.3	966.6	675.0	509.8	428.3	406.4	398.8
20°	1757.6	1733.6	1627.4	1457.3	1125.3	696.9	445.3	372.5	349.0	342.4	340.3
22.5°	1829.3	1792.1	1662.4	1419.0	891.1	467.7	352.3	329.3	321.7	317.8	316.7
25°	1891.7	1839.7	1693.1	1300.9	630.7	353.4	317.3	309.6	299.8	292.7	293.2
27.5°	1950.2	1887.3	1711.7	1106.1	420.7	302.0	293.8	283.4	265.3	254.9	254.9
30°	2020.8	1950.7	1725.4	851.2	309.6	267.0	260.4	244.5	219.9	206.2	206.2
32.5°	2126.9	2047.0	1716.6	597.4	256.6	234.7	219.4	197.5	170.7	157.5	157.0
35°	2289.3	2195.8	1654.2	391.7	226.5	204.0	179.4	152.6	129.1	118.2	117.6
37.5°	2508.2	2394.9	1514.2	280.1	203.0	175.6	146.1	116.5	99.0	91.9	91.4
40°	2792.1	2626.3	1314.0	227.0	181.1	148.2	112.7	90.3	78.2	72.8	73.3
42.5°	3132.9	2874.1	1073.8	195.8	159.7	122.0	88.1	71.1	63.5	59.6	58.5
45°	3511.4	3118.7	822.2	174.5	138.4	98.5	68.9	56.3	50.3	48.1	48.1
47.5°	3927.7	3356.6	601.7	155.9	115.4	76.0	55.3	46.0	41.0	39.4	38.8
50°	4305.7	3521.8	433.8	136.2	94.6	60.2	44.9	38.3	35.0	32.8	32.8
52.5°	4620.8	3573.8	319.5	114.9	76.6	48.1	37.2	32.8	29.5	27.9	27.9
55°	4898.2	3552.5	237.4	94.6	61.8	39.4	31.7	27.9	25.2	23.5	23.5
57.5°	5164.0	3483.5	177.2	77.1	49.8	31.7	26.8	23.5	20.8	19.7	19.7
60°	5381.2	3368.6	131.8	62.4	39.9	25.7	22.4	19.1	17.0	15.3	15.3
62.5°	5557.3	3241.7	96.8	51.4	31.7	20.2	17.5	15.9	12.6	10.9	10.9
65°	5558.4	3031.1	72.8	42.7	24.6	15.9	13.1	12.6	8.2	6.6	6.0
67.5°	5156.4	2613.2	55.8	36.7	19.1	12.0	9.8	10.4	4.4	2.7	2.2
68°	5010.3	2507.1	52.5	36.1	18.1	11.5	9.3	10.4	3.8	2.2	1.6
70°	4224.2	1994.5	42.1	35.0	15.9	8.8	7.7	10.4	3.3	1.6	1.1
72.5°	2701.8	1157.5	31.2	27.9	12.0	6.6	4.9	9.3	3.3	1.1	0.5
75°	1149.9	358.9	21.3	19.7	7.1	4.9	3.3	6.0	2.2	0.5	0.0
77.5°	242.3	81.0	12.6	12.0	4.9	3.3	2.2	1.6	0.5	0.0	0.0
80°	62.4	23.5	6.6	6.0	2.7	1.6	1.1	0.0	0.0	0.0	0.0
82.5°	19.7	9.3	3.8	2.7	1.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	9.8	5.5	2.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.5	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)