

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: P322358

Luminaire Tested: **GAN-SA4B-827-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322358
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-SA4B-827-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 800mA 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: 12349 lumens
Efficiency: N/A
Efficacy: 72.2 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): 171
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

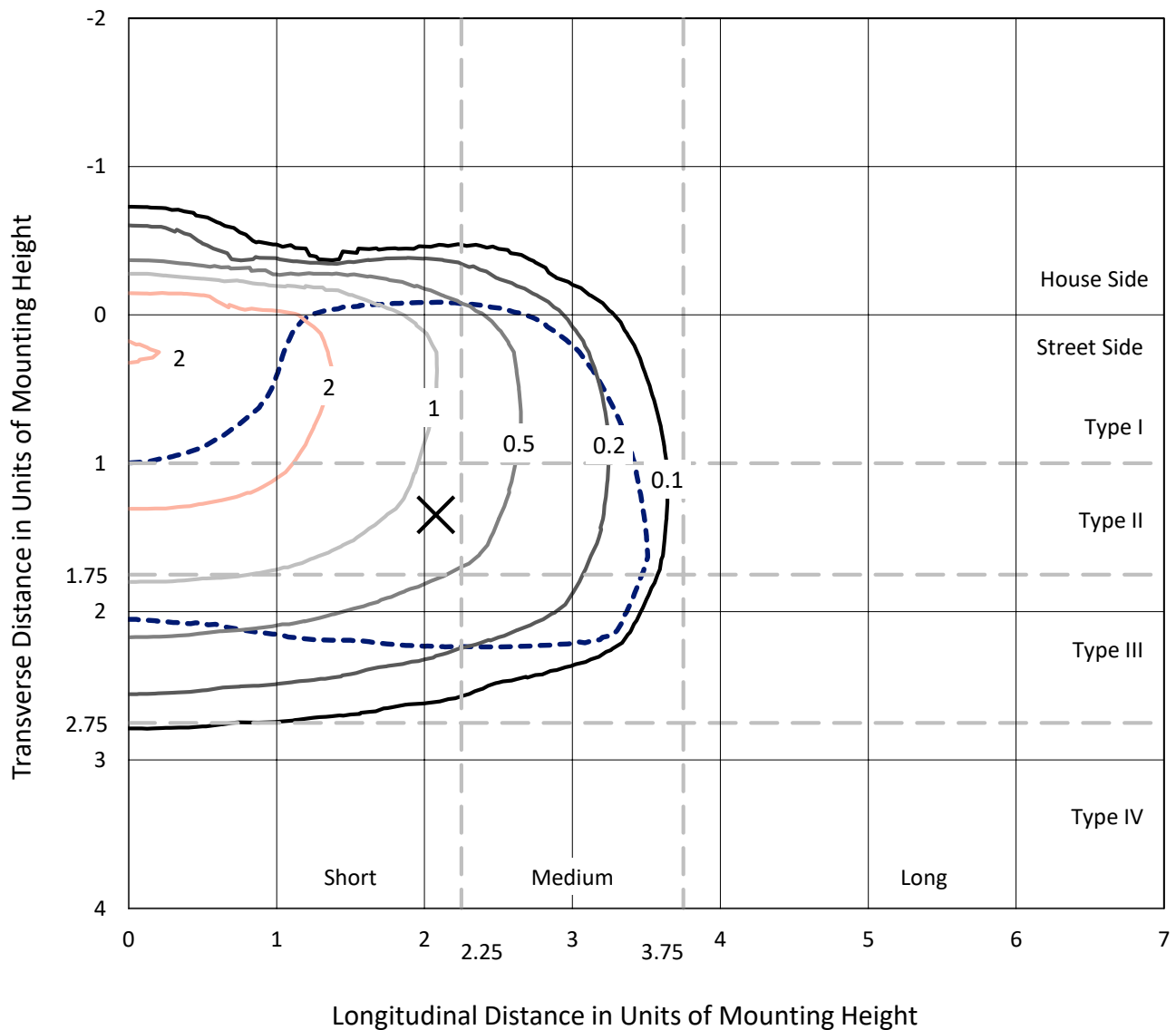


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Iso-Footcandle Lines of Horizontal Illumination

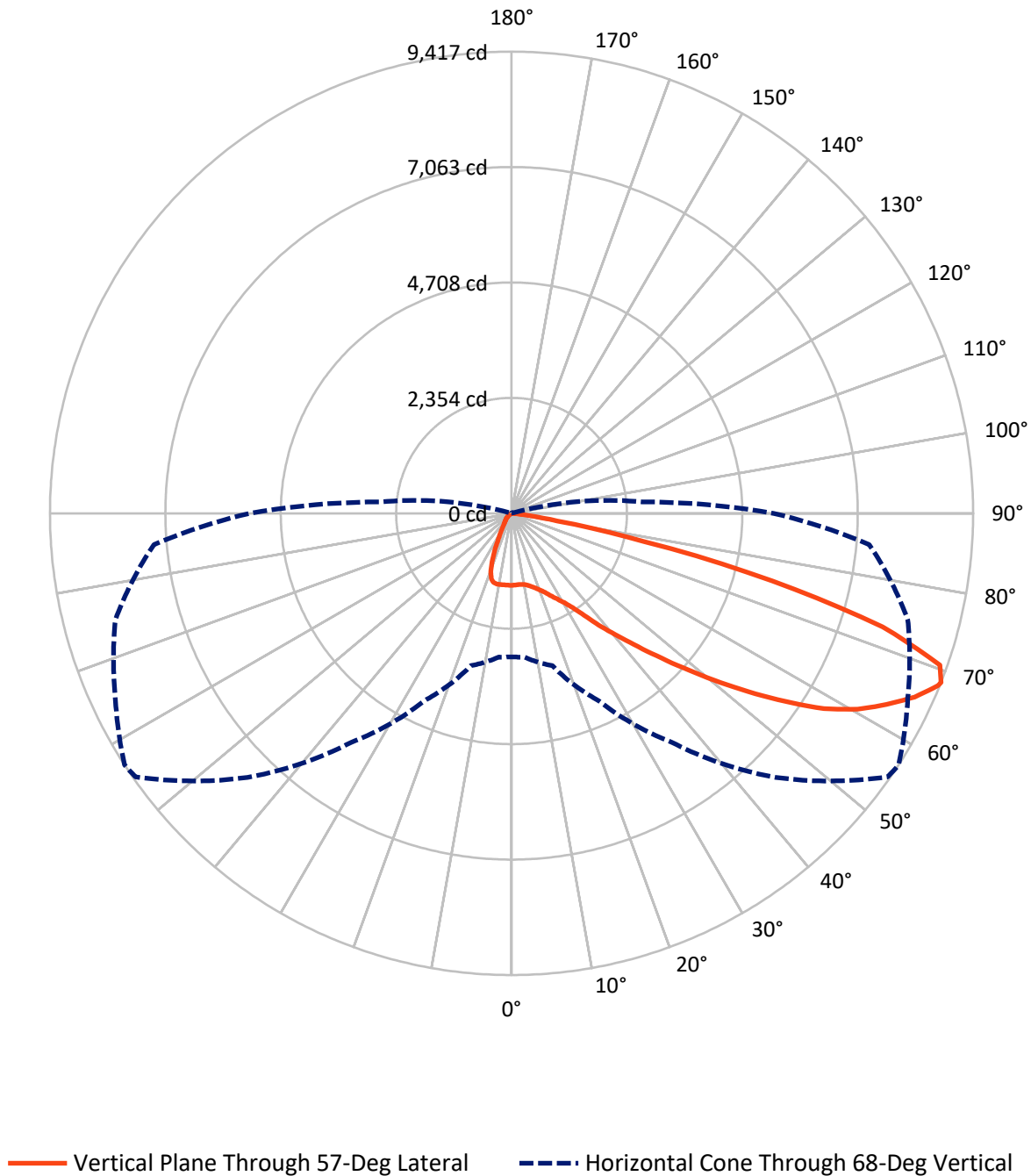
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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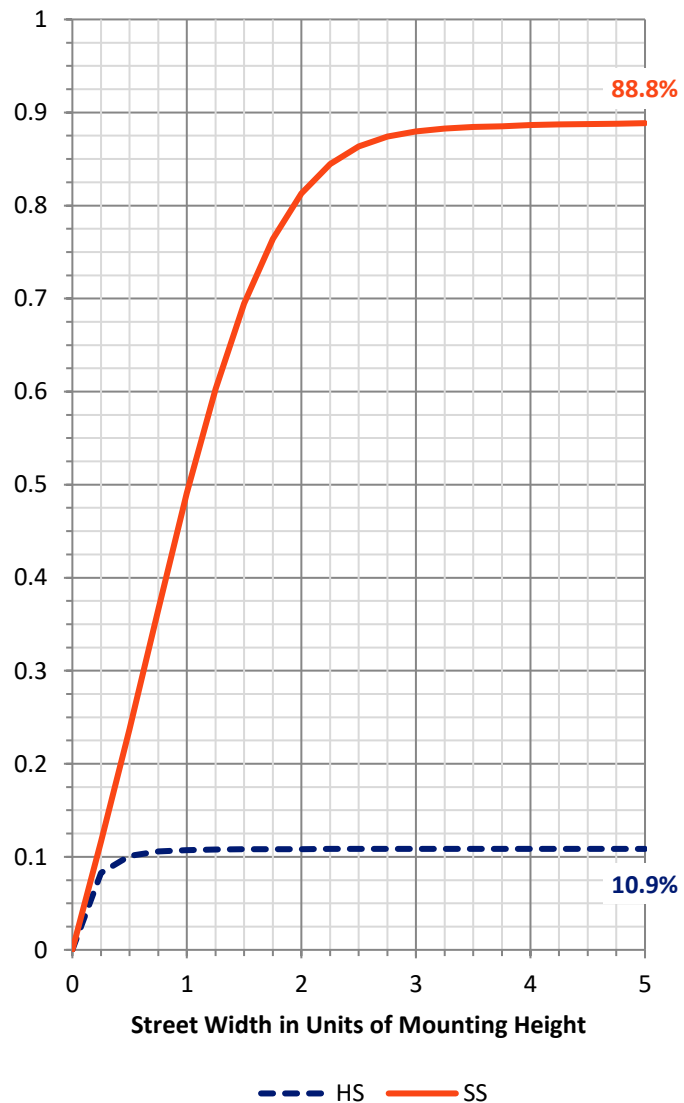
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1354.1	0.0	1354.1
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	10994.9	0.0	10994.9
	% Fixture	89.0	0.0	89.0
Total	Lumens	12349.0	0.0	12349.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.3	1.1
10°-20°	380.5	3.1
20°-30°	656.5	5.3
30°-40°	1133.0	9.2
40°-50°	1938.1	15.7
50°-60°	3100.7	25.1
60°-70°	3582.6	29.0
70°-80°	1369.0	11.1
80°-90°	51.3	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°	12349.0	100.0
0°-180°	12349.0	100.0

Coefficient of Utilization



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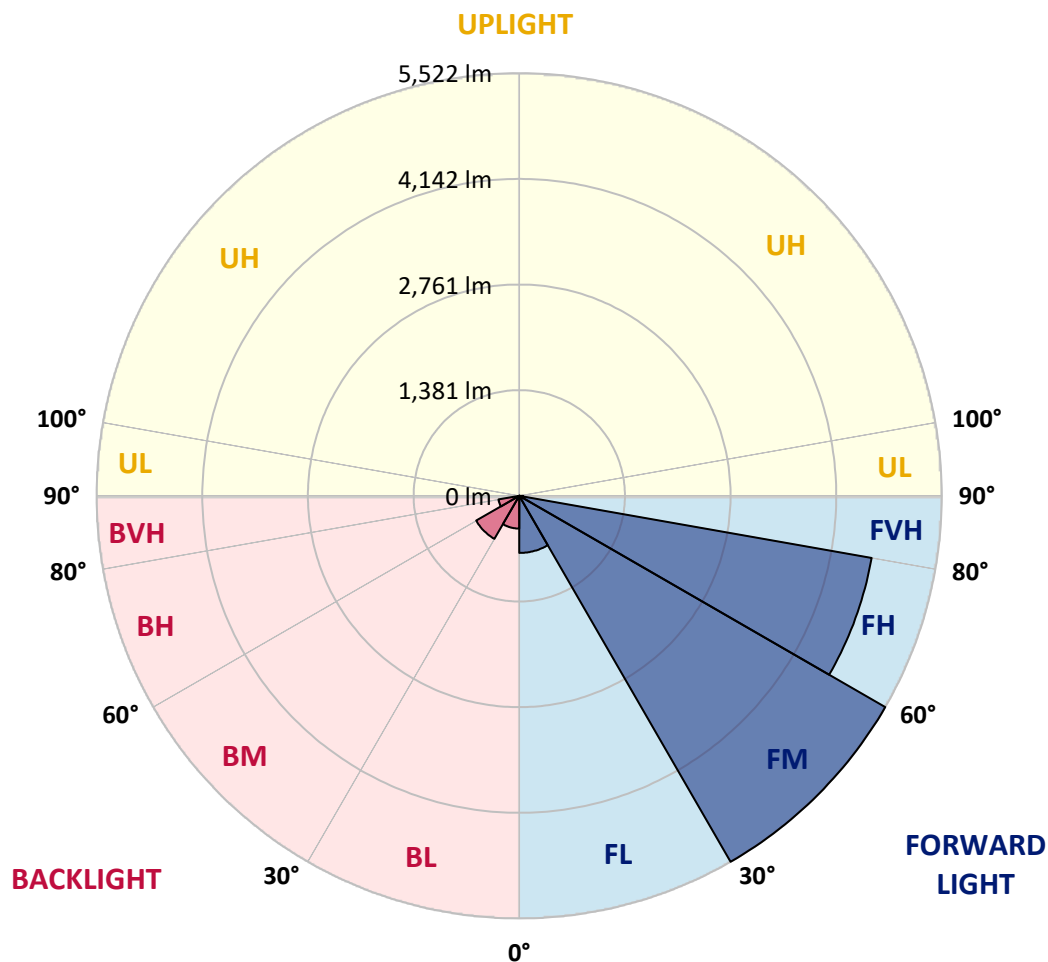
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	746.4	6.0			
FM	(30°-60°)	5522.4	44.7			
FH	(60°-80°)	4675.7	37.9			G2/5000
FVH	(80°-90°)	50.4	0.4			G1/100
BL	(0°-30°)	428.0	3.5	B1/500		
BM	(30°-60°)	649.5	5.3	B1/1000		
BH	(60°-80°)	275.8	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°	1467.4	1467.4	1467.4	1467.4	1467.4	1467.4	1467.4	1467.4	1467.4	1467.4	1467.4
2.5°	1432.9	1439.4	1444.0	1446.9	1450.5	1458.0	1460.4	1463.9	1465.6	1465.6	1469.7
5°	1376.3	1383.3	1393.2	1401.4	1417.8	1438.8	1454.0	1459.8	1470.3	1479.6	1484.9
7.5°	1323.7	1331.9	1343.6	1362.9	1390.9	1424.8	1456.3	1464.5	1484.9	1504.8	1514.7
10°	1289.9	1296.3	1311.5	1338.9	1375.7	1423.0	1467.4	1477.3	1512.3	1545.6	1564.3
12.5°	1278.2	1284.0	1299.8	1330.7	1376.3	1431.8	1493.1	1507.7	1559.1	1607.5	1633.8
15°	1295.1	1296.3	1313.2	1342.4	1387.4	1453.4	1535.7	1553.2	1618.0	1681.1	1713.8
17.5°	1360.5	1355.3	1364.0	1376.9	1412.5	1482.0	1580.7	1606.9	1693.4	1767.5	1798.5
20°	1524.0	1524.0	1504.2	1469.1	1469.7	1526.4	1641.4	1671.2	1776.9	1862.7	1890.7
22.5°	1803.7	1798.5	1758.8	1672.9	1594.1	1602.9	1715.6	1754.1	1877.3	1969.0	1978.3
25°	2140.1	2133.6	2072.3	1951.5	1814.8	1726.6	1816.0	1860.4	1997.0	2078.2	2058.9
27.5°	2496.3	2491.0	2430.3	2280.2	2085.8	1924.0	1935.7	1977.7	2119.0	2199.0	2137.7
30°	2841.3	2843.1	2783.0	2628.8	2408.7	2175.7	2087.5	2112.0	2237.6	2318.7	2231.2
32.5°	3169.5	3171.8	3119.9	2947.6	2742.1	2468.2	2297.7	2291.3	2375.4	2455.4	2354.9
35°	3462.1	3467.9	3432.3	3298.6	3080.8	2794.0	2570.4	2555.2	2571.0	2661.5	2544.7
37.5°	3744.1	3747.6	3720.7	3608.0	3425.8	3152.0	2914.9	2893.3	2859.4	2928.9	2795.2
40°	4053.0	4044.2	4013.3	3911.1	3754.6	3547.3	3285.1	3247.8	3188.8	3250.7	3124.5
42.5°	4340.3	4330.3	4335.6	4220.0	4088.0	3953.7	3716.6	3652.4	3618.0	3689.2	3528.6
45°	4699.4	4694.1	4711.6	4611.2	4504.3	4406.8	4211.2	4141.1	4126.0	4209.5	4017.4
47.5°	5053.8	5066.7	5121.0	5078.3	5035.1	4949.3	4735.0	4703.5	4712.8	4813.8	4533.0
50°	5349.3	5364.5	5513.4	5562.4	5624.9	5574.7	5359.8	5340.5	5377.3	5468.4	5087.7
52.5°	5563.0	5593.9	5779.0	6005.0	6232.7	6266.6	6052.3	6034.8	6084.4	6098.4	5516.3
55°	5711.3	5738.7	5948.4	6361.8	6825.4	6971.4	6838.3	6770.5	6761.2	6622.8	5967.1
57.5°	5737.6	5734.7	6036.0	6592.4	7290.2	7666.8	7582.8	7516.2	7324.7	7107.5	6483.8
60°	5589.3	5606.2	5956.0	6672.4	7582.2	8193.0	8199.4	8113.0	7814.6	7578.7	6984.8
62.5°	5132.6	5201.5	5554.8	6462.8	7578.7	8404.9	8651.3	8585.4	8228.6	7964.6	7492.8
65°	4392.2	4416.8	4753.7	5744.6	7066.6	8316.2	9058.3	9033.8	8601.7	8339.5	7753.9
67.5°	3207.5	3154.3	3508.2	4523.6	5982.8	7798.8	9350.3	9381.2	8889.6	8416.6	7475.9
68°	2927.2	2942.9	3218.6	4221.7	5699.0	7616.0	9369.6	9416.9	8918.2	8366.4	7324.1
70°	1744.7	1775.1	2020.9	2906.7	4335.6	6581.9	9161.7	9269.7	8747.7	7848.4	6334.9
72.5°	445.5	481.7	714.1	1301.0	2476.4	4637.5	7734.0	7916.8	7595.0	6367.0	4276.6
75°	183.4	192.7	255.2	428.6	922.6	2089.3	5097.6	5488.8	5265.2	3811.8	1932.8
77.5°	126.7	133.1	164.1	237.7	399.4	708.3	2499.2	2781.8	2506.2	1301.0	421.6
80°	91.1	96.3	117.4	158.2	229.5	252.8	814.6	941.9	748.0	285.5	104.5
82.5°	54.3	58.4	87.6	112.7	139.6	120.9	202.6	230.1	216.6	141.9	46.7
85°	26.9	31.5	59.0	80.6	75.3	50.8	61.9	68.9	85.3	86.4	25.1
87.5°	1.8	3.5	34.5	48.5	21.0	11.7	18.1	22.2	30.4	42.6	10.5
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°	1467.4	1467.4	1467.4	1467.4	1467.4	1467.4	1467.4	1467.4	1467.4	1467.4	1467.4
2.5°	1471.5	1472.1	1468.0	1466.2	1467.4	1460.4	1457.5	1458.6	1458.6	1460.4	1457.5
5°	1486.1	1486.1	1479.1	1469.7	1464.5	1451.0	1442.3	1439.9	1438.2	1437.0	1434.7
7.5°	1517.6	1514.1	1501.8	1481.4	1463.9	1434.7	1412.5	1400.8	1395.0	1392.6	1390.9
10°	1568.4	1562.0	1541.5	1503.6	1463.3	1411.3	1362.9	1328.4	1299.8	1288.1	1281.1
12.5°	1636.7	1627.4	1592.9	1529.9	1459.2	1363.4	1258.3	1157.3	1063.3	1024.8	1005.5
15°	1715.6	1702.1	1647.8	1552.1	1435.3	1255.4	1027.1	850.2	720.0	670.9	649.9
17.5°	1795.5	1778.0	1695.7	1566.1	1363.4	1031.8	720.6	544.2	457.2	433.9	425.7
20°	1876.1	1850.4	1737.2	1555.6	1201.1	743.9	475.3	397.6	372.5	365.5	363.2
22.5°	1952.6	1912.9	1774.5	1514.7	951.2	499.3	376.0	351.5	343.3	339.3	338.1
25°	2019.2	1963.7	1807.2	1388.6	673.3	377.2	338.7	330.5	320.0	312.4	313.0
27.5°	2081.7	2014.5	1827.1	1180.7	449.0	322.3	313.6	302.5	283.2	272.1	272.1
30°	2157.0	2082.3	1841.7	908.6	330.5	285.0	277.9	261.0	234.7	220.1	220.1
32.5°	2270.3	2185.0	1832.3	637.6	273.9	250.5	234.2	210.8	182.2	168.2	167.6
35°	2443.7	2343.8	1765.8	418.1	241.7	217.8	191.5	162.9	137.8	126.1	125.5
37.5°	2677.3	2556.4	1616.3	299.0	216.6	187.4	155.9	124.4	105.7	98.1	97.5
40°	2980.3	2803.4	1402.6	242.3	193.3	158.2	120.3	96.3	83.5	77.7	78.2
42.5°	3344.1	3067.9	1146.2	209.0	170.5	130.2	94.0	75.9	67.7	63.6	62.5
45°	3748.2	3328.9	877.6	186.3	147.7	105.1	73.6	60.1	53.7	51.4	51.4
47.5°	4192.5	3582.9	642.3	166.4	123.2	81.2	59.0	49.0	43.8	42.0	41.5
50°	4596.0	3759.3	463.0	145.4	101.0	64.2	47.9	40.9	37.4	35.0	35.0
52.5°	4932.4	3814.7	341.0	122.6	81.7	51.4	39.7	35.0	31.5	29.8	29.8
55°	5228.4	3792.0	253.4	101.0	66.0	42.0	33.9	29.8	26.9	25.1	25.1
57.5°	5512.2	3718.4	189.2	82.3	53.1	33.9	28.6	25.1	22.2	21.0	21.0
60°	5744.0	3595.8	140.7	66.6	42.6	27.4	23.9	20.4	18.1	16.3	16.3
62.5°	5932.0	3460.3	103.4	54.9	33.9	21.6	18.7	16.9	13.4	11.7	11.7
65°	5933.2	3235.5	77.7	45.5	26.3	16.9	14.0	13.4	8.8	7.0	6.4
67.5°	5504.0	2789.4	59.6	39.1	20.4	12.8	10.5	11.1	4.7	2.9	2.3
68°	5348.1	2676.1	56.1	38.5	19.3	12.3	9.9	11.1	4.1	2.3	1.8
70°	4509.0	2129.0	45.0	37.4	16.9	9.3	8.2	11.1	3.5	1.8	1.2
72.5°	2884.0	1235.6	33.3	29.8	12.8	7.0	5.3	9.9	3.5	1.2	0.6
75°	1227.4	383.1	22.8	21.0	7.6	5.3	3.5	6.4	2.3	0.6	0.0
77.5°	258.7	86.4	13.4	12.8	5.3	3.5	2.3	1.8	0.6	0.0	0.0
80°	66.6	25.1	7.0	6.4	2.9	1.8	1.2	0.0	0.0	0.0	0.0
82.5°	21.0	9.9	4.1	2.9	1.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	10.5	5.8	2.3	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.8	1.8	0.6	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)