

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: P319855

Luminaire Tested: **GAN-SA1D-830-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319855
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1D-830-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6456 lumens
Efficiency: N/A
Efficacy: 96.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 67
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

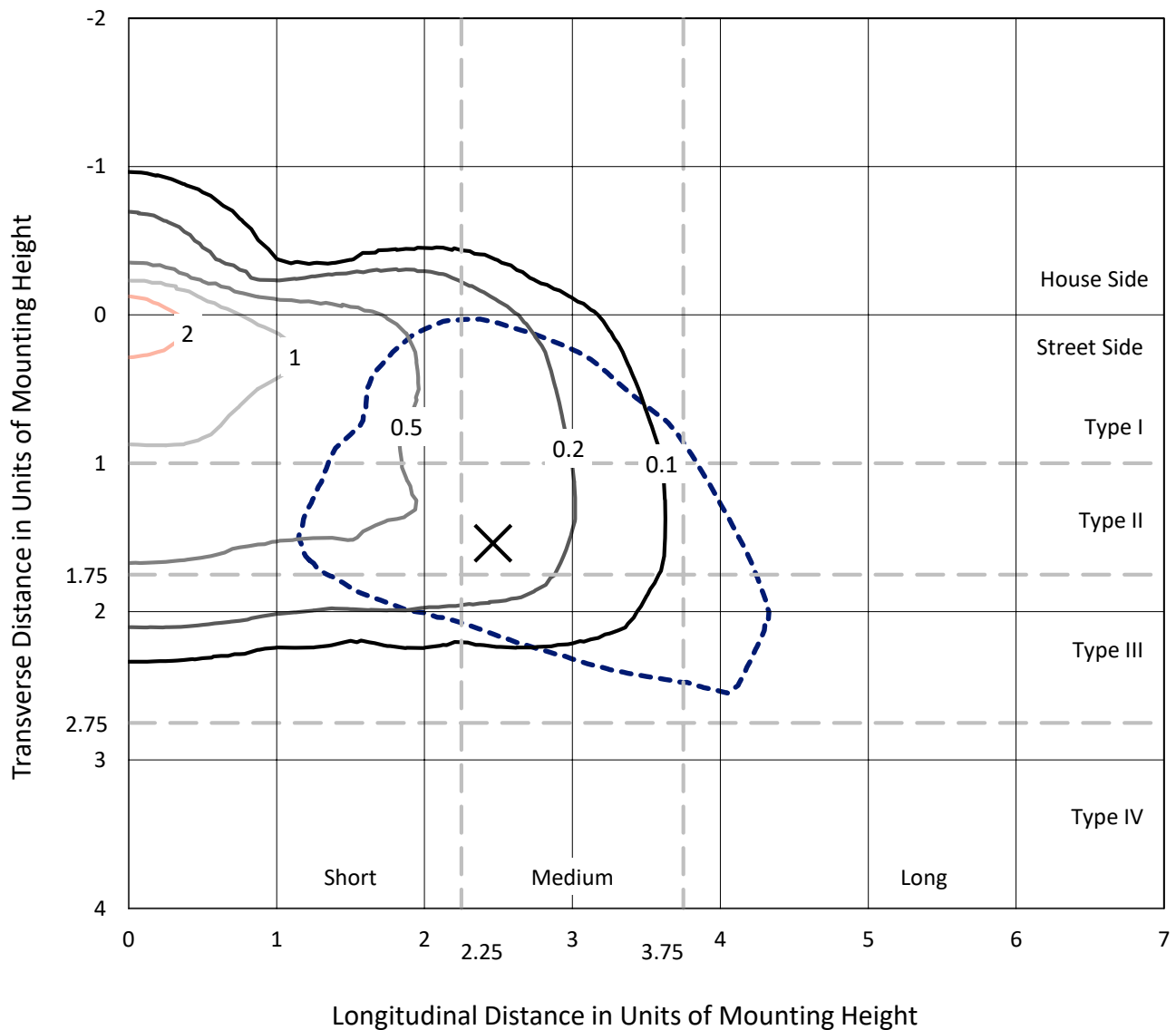


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Iso-Footcandle Lines of Horizontal Illumination

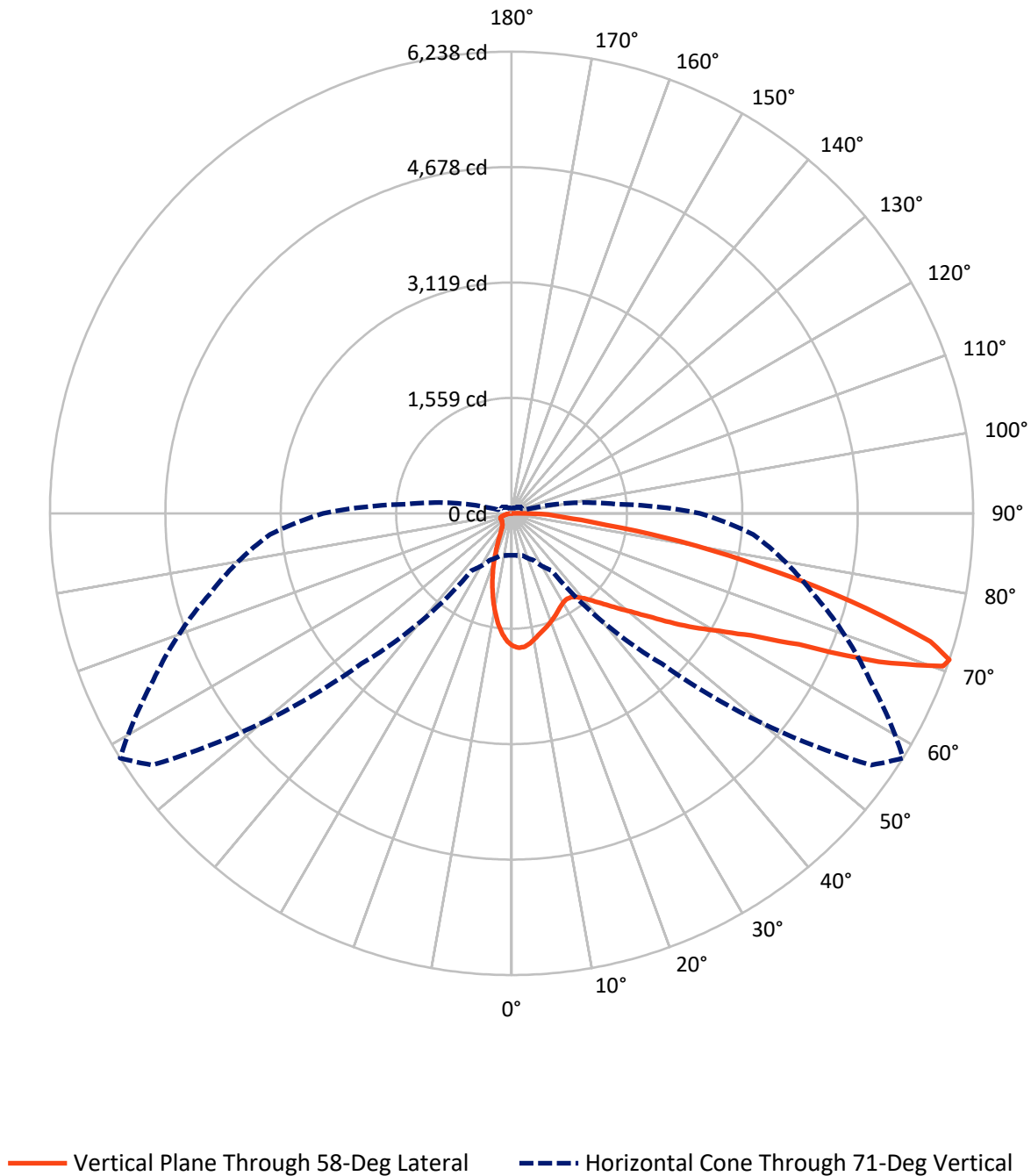
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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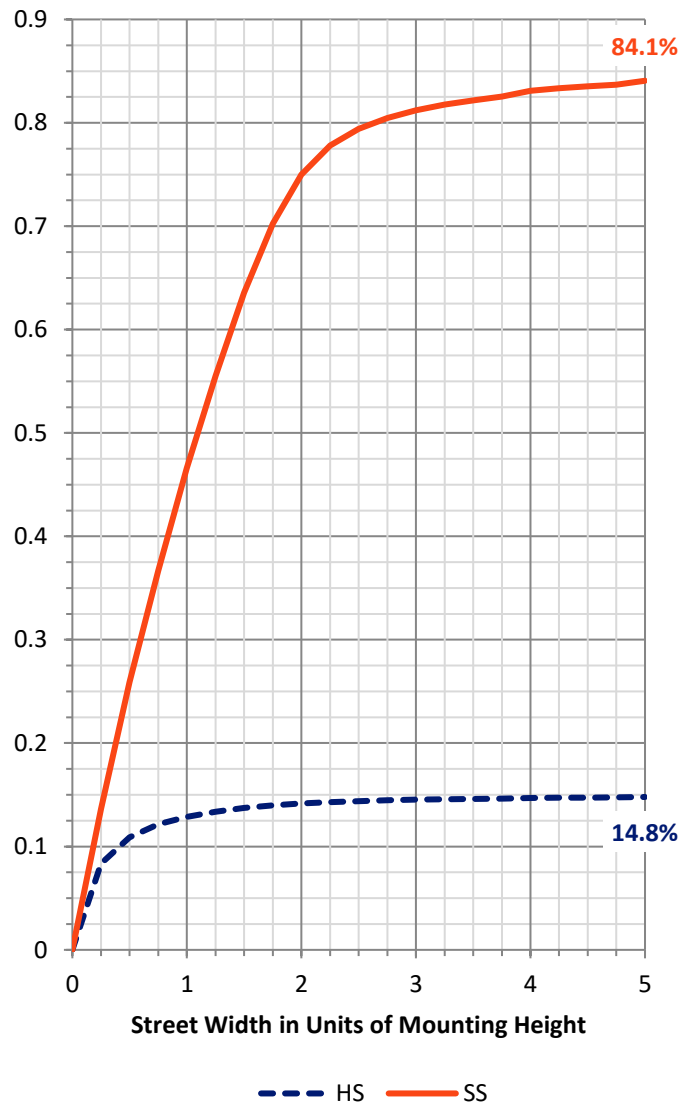
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	965.2	0.0	965.2
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	5490.8	0.0	5490.8
	% Fixture	85.0	0.0	85.0
Total	Lumens	6456.0	0.0	6456.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.3	2.4
10°-20°	343.1	5.3
20°-30°	436.1	6.8
30°-40°	555.5	8.6
40°-50°	787.7	12.2
50°-60°	1219.0	18.9
60°-70°	1659.5	25.7
70°-80°	1107.1	17.1
80°-90°	193.6	3.0
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°	6456.0	100.0
0°-180°	6456.0	100.0

Coefficient of Utilization



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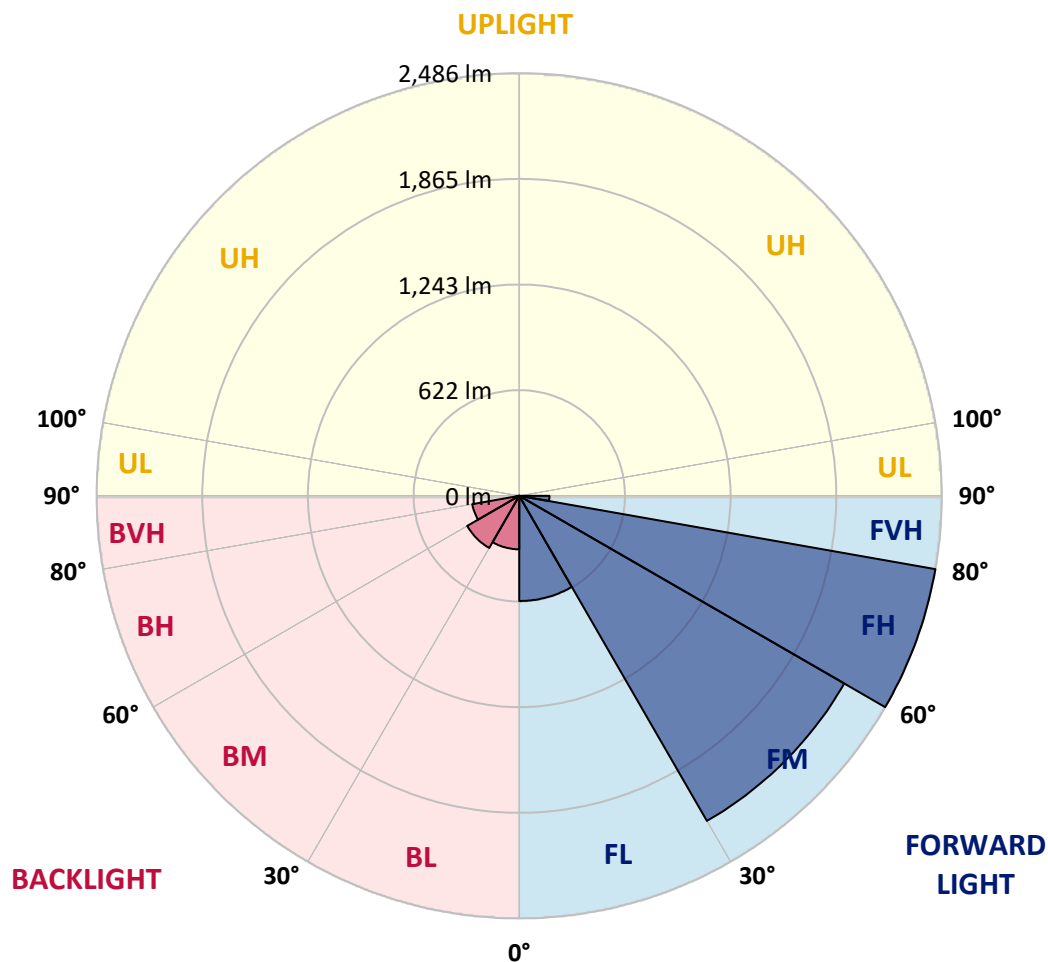
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	618.9	9.6			
FM	(30°-60°)	2208.3	34.2			
FH	(60°-80°)	2486.1	38.5			G2/5000
FVH	(80°-90°)	177.5	2.7			G2/225
BL	(0°-30°)	314.6	4.9	B1/500		
BM	(30°-60°)	354.0	5.5	B1/1000		
BH	(60°-80°)	280.5	4.3	B1/500		G1/500
BVH	(80°-90°)	16.1	0.2			G1/100
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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1788.7	1788.7	1788.7	1788.7	1788.7	1788.7	1788.7	1788.7	1788.7	1788.7	1788.7
2.5°	1836.2	1833.7	1834.6	1832.8	1828.5	1824.3	1818.0	1819.1	1810.3	1797.3	1781.1
5°	1801.6	1800.7	1807.4	1811.2	1814.4	1811.9	1810.1	1812.4	1799.5	1781.5	1753.4
7.5°	1728.9	1719.0	1727.6	1740.4	1752.5	1761.8	1773.9	1775.5	1767.4	1748.5	1711.6
10°	1625.7	1616.3	1628.8	1648.9	1673.2	1695.2	1719.7	1724.2	1725.8	1708.7	1663.9
12.5°	1518.7	1511.5	1524.1	1552.2	1592.4	1626.4	1665.5	1672.3	1686.2	1674.7	1619.9
15°	1422.9	1420.2	1435.4	1463.1	1509.4	1561.4	1617.8	1630.2	1653.8	1650.0	1585.4
17.5°	1340.1	1339.4	1351.1	1380.1	1431.4	1497.1	1570.4	1591.3	1626.4	1630.9	1557.1
20°	1278.5	1277.1	1285.2	1306.6	1359.4	1433.9	1519.1	1547.9	1598.5	1614.2	1527.9
22.5°	1245.4	1245.2	1245.4	1255.5	1298.7	1368.0	1469.2	1504.3	1571.3	1601.0	1495.5
25°	1239.8	1239.1	1234.2	1233.1	1257.6	1312.9	1419.7	1458.4	1545.4	1591.7	1464.7
27.5°	1254.4	1255.3	1248.8	1238.2	1243.2	1276.7	1376.8	1418.1	1524.7	1589.9	1443.3
30°	1284.8	1284.3	1278.7	1267.7	1258.0	1263.2	1346.2	1387.5	1510.8	1597.8	1428.7
32.5°	1318.3	1320.8	1319.6	1313.6	1299.2	1278.5	1336.9	1377.4	1506.7	1616.7	1422.4
35°	1358.5	1361.2	1369.3	1374.1	1357.2	1323.9	1356.7	1391.8	1518.4	1652.2	1432.5
37.5°	1396.8	1403.7	1426.5	1446.5	1432.1	1395.0	1409.4	1434.3	1554.6	1708.2	1459.7
40°	1440.8	1446.9	1484.0	1526.5	1524.3	1485.8	1494.1	1510.8	1618.5	1788.5	1509.0
42.5°	1484.2	1496.4	1550.1	1610.4	1627.7	1593.8	1607.0	1615.8	1708.5	1894.9	1594.9
45°	1542.0	1555.1	1629.7	1702.4	1742.9	1723.8	1744.9	1748.3	1821.6	2039.7	1719.7
47.5°	1629.5	1644.4	1731.4	1807.6	1869.5	1871.5	1906.4	1905.0	1962.8	2205.5	1876.9
50°	1765.8	1787.2	1858.5	1929.7	2004.9	2046.7	2093.2	2086.7	2132.1	2382.0	2057.9
52.5°	1944.4	1954.3	2007.1	2059.7	2153.1	2246.8	2313.6	2307.8	2324.2	2563.5	2263.5
55°	2129.4	2136.9	2158.7	2187.5	2313.0	2465.9	2607.1	2597.9	2556.3	2751.9	2466.6
57.5°	2295.9	2310.9	2326.0	2337.9	2474.0	2694.8	2907.3	2908.0	2808.2	2955.2	2676.4
60°	2321.7	2335.0	2434.6	2528.6	2749.5	3000.2	3228.7	3221.9	3068.8	3175.8	2910.3
62.5°	2052.3	2082.2	2248.6	2498.7	3014.8	3558.8	3638.7	3630.3	3380.5	3447.7	3182.6
65°	1470.8	1504.7	1705.5	2081.3	2886.2	4174.3	4378.5	4266.5	3805.5	3782.1	3501.5
67.5°	848.5	856.6	943.6	1245.4	2197.6	4206.5	5507.2	5350.5	4465.6	4161.5	3657.5
70°	627.4	627.2	647.9	766.4	1189.2	3433.1	6044.0	6184.6	5160.5	4286.3	3436.9
71°	567.4	568.1	591.2	697.6	941.8	2873.6	5930.0	6237.7	5343.5	4224.7	3277.3
72.5°	485.3	487.6	519.7	625.6	792.3	1981.7	5438.9	5919.2	5430.3	4072.7	3027.4
75°	368.1	373.3	417.8	527.4	724.1	1005.0	3991.7	4726.7	4824.0	3593.7	2249.5
77.5°	262.7	268.5	318.9	443.5	688.4	757.4	2673.2	3447.7	3550.1	2303.1	1014.7
80°	166.0	172.9	210.9	352.8	646.8	719.2	1679.9	2317.5	1935.8	737.0	258.2
82.5°	97.4	102.8	130.9	230.5	528.3	692.6	988.4	1284.5	753.4	222.6	117.4
85°	56.4	58.9	81.6	146.9	383.7	653.7	726.2	718.1	327.0	108.8	55.5
87.5°	26.3	29.2	48.4	76.7	213.0	473.8	573.9	495.9	203.3	51.0	26.1
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°	1788.7	1788.7	1788.7	1788.7	1788.7	1788.7	1788.7	1788.7	1788.7	1788.7	1788.7
2.5°	1773.2	1769.4	1753.4	1739.3	1724.4	1705.1	1683.7	1681.0	1668.0	1670.5	1666.0
5°	1738.1	1728.5	1690.0	1655.2	1614.0	1577.1	1537.1	1518.7	1492.1	1490.3	1483.6
7.5°	1688.0	1670.0	1610.4	1544.3	1478.2	1415.2	1352.9	1312.0	1270.2	1252.4	1250.8
10°	1631.5	1601.0	1513.3	1415.4	1320.1	1228.1	1139.0	1073.2	1013.8	985.7	984.6
12.5°	1578.0	1532.8	1412.5	1279.4	1148.9	1029.8	907.6	821.1	746.6	721.7	711.1
15°	1532.6	1469.0	1314.5	1144.2	985.9	820.4	681.4	590.3	521.5	497.7	493.2
17.5°	1488.5	1406.7	1213.9	1007.7	816.3	634.4	495.2	427.5	390.9	381.2	381.0
20°	1444.7	1342.6	1108.9	868.1	652.4	474.5	380.7	350.4	338.0	336.9	335.1
22.5°	1395.0	1274.7	998.5	728.0	509.1	373.1	323.6	311.5	309.9	313.9	313.9
25°	1348.4	1207.2	886.5	590.8	396.0	311.2	289.0	286.5	290.8	298.0	298.6
27.5°	1305.0	1142.2	777.2	468.9	317.3	274.1	264.9	267.8	275.5	283.8	284.0
30°	1269.3	1080.8	671.1	369.5	268.1	246.5	244.9	250.7	259.1	265.6	267.2
32.5°	1241.6	1028.4	568.5	297.1	235.9	225.8	227.1	232.1	237.3	240.9	243.3
35°	1228.8	983.4	473.8	250.5	215.4	209.8	211.6	214.3	216.6	219.3	221.3
37.5°	1231.0	948.6	389.3	221.5	201.7	198.8	198.8	198.8	198.8	200.1	200.4
40°	1251.9	928.6	320.5	203.1	192.5	189.4	186.9	184.6	182.8	183.7	183.3
42.5°	1305.5	926.8	270.1	191.4	185.1	179.9	175.0	171.8	169.6	170.5	170.9
45°	1396.3	949.2	236.1	183.1	178.1	170.2	163.9	160.6	159.0	161.9	162.4
47.5°	1513.9	998.3	215.4	177.0	171.6	161.2	154.5	151.3	151.8	156.1	157.2
50°	1665.5	1077.9	205.5	173.2	167.1	153.6	146.6	143.9	145.3	151.3	152.7
52.5°	1831.9	1192.6	206.7	172.0	164.2	148.0	140.6	137.4	139.7	145.3	146.4
55°	2024.0	1330.4	225.3	173.6	159.9	144.4	135.6	130.2	132.0	137.2	138.1
57.5°	2237.4	1488.3	262.9	173.2	154.5	141.0	130.4	122.3	123.7	126.8	127.7
60°	2459.6	1679.0	321.1	174.5	152.0	137.0	123.5	113.3	112.9	115.6	116.0
62.5°	2726.3	1899.6	387.7	175.4	153.6	131.8	114.2	104.3	103.0	103.7	104.1
65°	3001.1	2059.3	362.7	171.8	158.5	127.5	106.1	95.6	93.1	92.7	92.9
67.5°	3009.6	1888.1	254.3	164.6	160.6	125.3	100.1	88.2	84.1	82.5	82.3
70°	2699.1	1533.9	198.1	157.0	152.5	121.7	94.5	82.1	76.0	73.5	73.3
71°	2547.5	1412.1	187.8	153.1	146.4	118.1	92.0	79.4	73.1	70.4	69.9
72.5°	2309.8	1265.9	175.2	147.1	134.7	108.8	87.3	75.6	69.0	65.9	65.2
75°	1657.6	827.8	150.4	131.1	111.5	86.8	76.5	67.9	62.3	58.5	58.0
77.5°	638.7	329.5	113.8	109.1	85.5	67.9	63.0	58.7	54.6	50.8	50.6
80°	197.4	147.3	83.0	82.1	61.8	50.6	49.0	47.9	46.3	42.3	41.4
82.5°	105.5	84.6	57.1	53.1	40.5	33.7	35.5	36.0	36.2	31.9	31.5
85°	50.4	44.8	32.2	30.1	23.6	18.9	21.8	23.6	23.8	19.6	18.2
87.5°	24.1	23.4	15.1	11.5	8.8	6.3	7.6	9.4	10.3	7.4	6.5
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)