

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: P319605

Luminaire Tested: **GAN-SA1C-727-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319605
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-SA1C-727-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 1050mA 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: 6194 lumens
Efficiency: N/A
Efficacy: 105.0 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

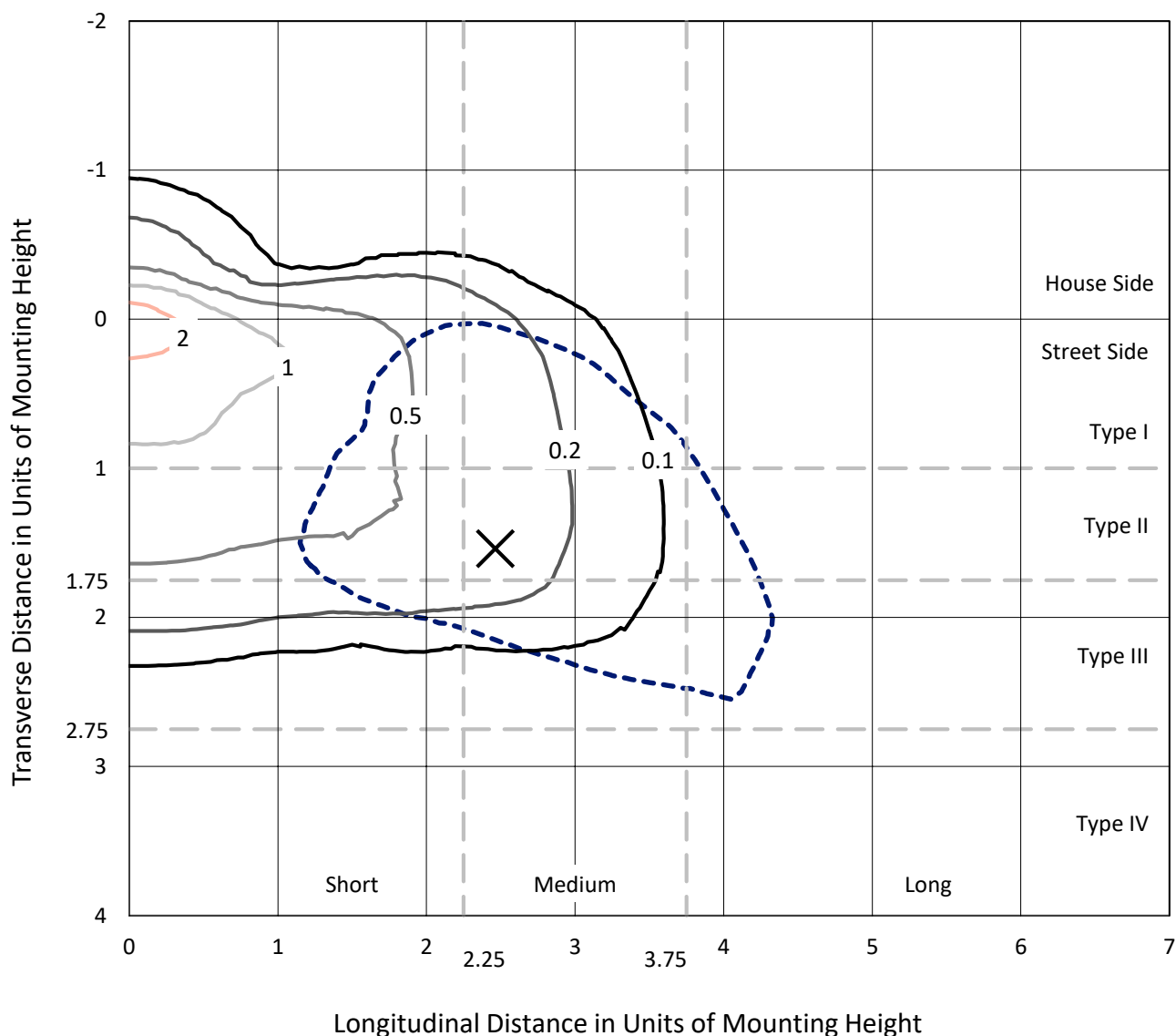
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

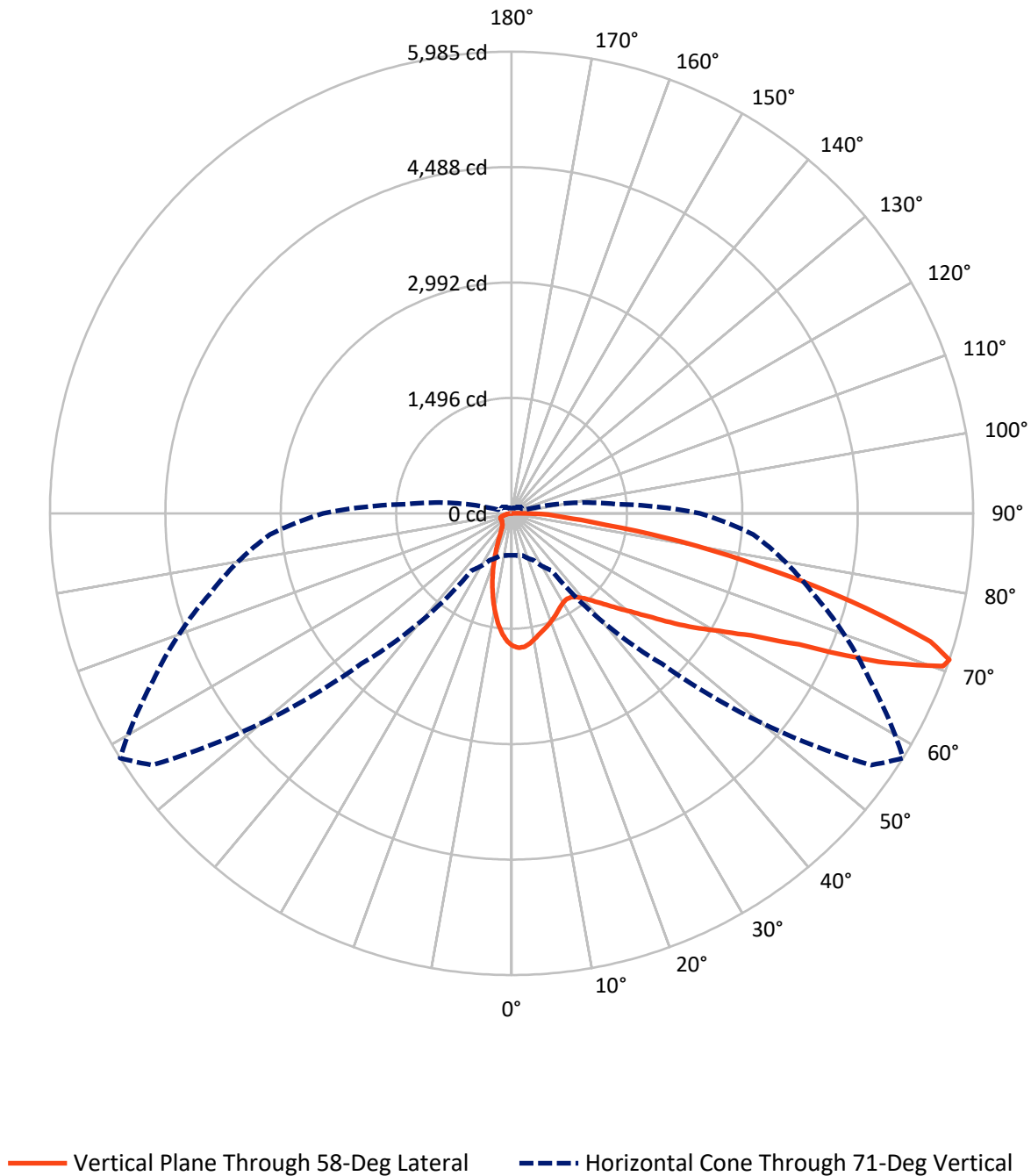
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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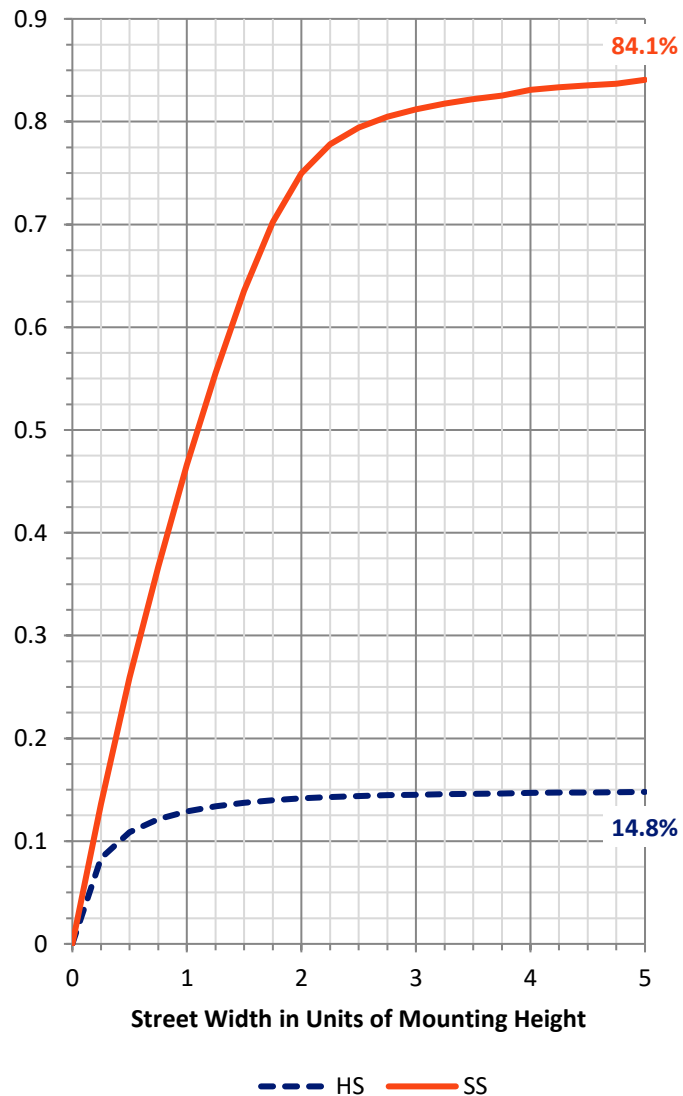
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	926.0	0.0	926.0
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	5267.9	0.0	5267.9
	% Fixture	85.0	0.0	85.0
Total	Lumens	6194.0	0.0	6194.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.1	2.4
10°-20°	329.2	5.3
20°-30°	418.4	6.8
30°-40°	533.0	8.6
40°-50°	755.7	12.2
50°-60°	1169.6	18.9
60°-70°	1592.2	25.7
70°-80°	1062.2	17.1
80°-90°	185.7	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°	6194.0	100.0
0°-180°	6194.0	100.0

Coefficient of Utilization



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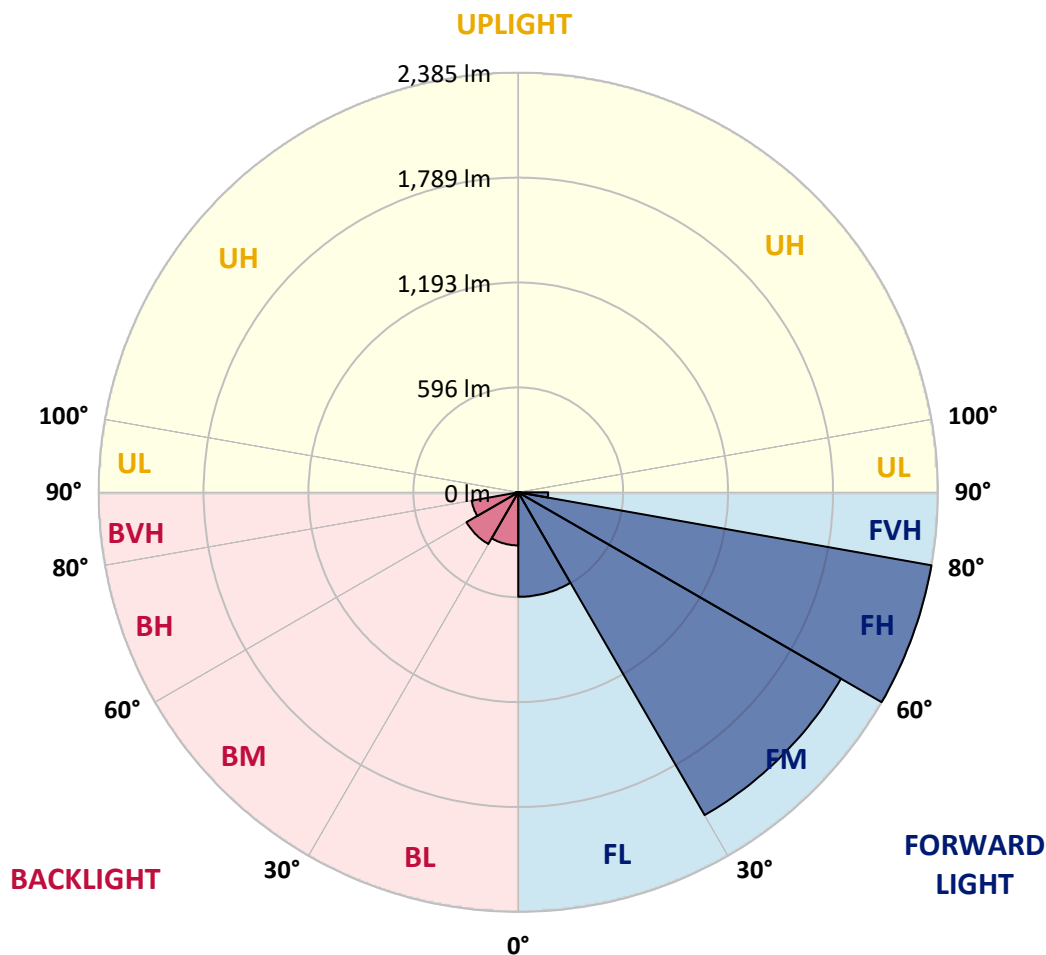
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	593.8	9.6			
FM	(30°-60°)	2118.6	34.2			
FH	(60°-80°)	2385.2	38.5			G2/5000
FVH	(80°-90°)	170.3	2.7			G2/225
BL	(0°-30°)	301.9	4.9	B1/500		
BM	(30°-60°)	339.6	5.5	B1/1000		
BH	(60°-80°)	269.1	4.3	B1/500		G1/500
BVH	(80°-90°)	15.4	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°	1716.2	1716.2	1716.2	1716.2	1716.2	1716.2	1716.2	1716.2	1716.2	1716.2	1716.2
2.5°	1761.7	1759.3	1760.2	1758.4	1754.3	1750.2	1744.2	1745.3	1736.9	1724.4	1708.8
5°	1728.5	1727.6	1734.1	1737.7	1740.7	1738.4	1736.6	1738.8	1726.5	1709.2	1682.3
7.5°	1658.8	1649.3	1657.5	1669.8	1681.4	1690.3	1701.9	1703.4	1695.7	1677.5	1642.1
10°	1559.7	1550.7	1562.7	1581.9	1605.3	1626.4	1649.9	1654.2	1655.7	1639.3	1596.4
12.5°	1457.0	1450.1	1462.2	1489.2	1527.8	1560.4	1597.9	1604.4	1617.8	1606.8	1554.1
15°	1365.1	1362.5	1377.2	1403.7	1448.2	1498.0	1552.2	1564.0	1586.7	1583.0	1521.1
17.5°	1285.7	1285.1	1296.3	1324.1	1373.3	1436.3	1506.6	1526.7	1560.4	1564.7	1493.9
20°	1226.6	1225.3	1233.1	1253.6	1304.3	1375.7	1457.5	1485.1	1533.6	1548.7	1465.9
22.5°	1194.9	1194.7	1194.9	1204.6	1246.0	1312.5	1409.6	1443.2	1507.5	1536.0	1434.8
25°	1189.5	1188.8	1184.1	1183.0	1206.5	1259.6	1362.1	1399.2	1482.7	1527.1	1405.2
27.5°	1203.5	1204.4	1198.1	1188.0	1192.7	1224.9	1320.9	1360.6	1462.9	1525.4	1384.7
30°	1232.6	1232.2	1226.8	1216.2	1207.0	1211.9	1291.5	1331.2	1449.5	1533.0	1370.7
32.5°	1264.8	1267.2	1266.1	1260.3	1246.4	1226.6	1282.7	1321.5	1445.6	1551.1	1364.7
35°	1303.4	1306.0	1313.8	1318.3	1302.1	1270.2	1301.7	1335.3	1456.8	1585.2	1374.4
37.5°	1340.1	1346.8	1368.6	1387.8	1374.0	1338.4	1352.2	1376.1	1491.5	1638.9	1400.5
40°	1382.4	1388.2	1423.8	1464.6	1462.4	1425.5	1433.5	1449.5	1552.8	1715.9	1447.7
42.5°	1424.0	1435.7	1487.2	1545.1	1561.7	1529.1	1541.8	1550.2	1639.1	1818.0	1530.2
45°	1479.5	1492.0	1563.6	1633.3	1672.1	1653.8	1674.1	1677.3	1747.7	1956.9	1649.9
47.5°	1563.4	1577.6	1661.1	1734.3	1793.6	1795.6	1829.0	1827.7	1883.2	2116.0	1800.7
50°	1694.1	1714.6	1783.0	1851.4	1923.5	1963.6	2008.3	2002.0	2045.6	2285.3	1974.4
52.5°	1865.5	1875.0	1925.7	1976.1	2065.7	2155.7	2219.7	2214.1	2229.9	2459.4	2171.6
55°	2043.0	2050.1	2071.1	2098.7	2219.1	2365.8	2501.3	2492.5	2452.5	2640.3	2366.5
57.5°	2202.7	2217.1	2231.6	2243.0	2373.6	2585.4	2789.3	2790.0	2694.2	2835.3	2567.8
60°	2227.5	2240.2	2335.8	2426.0	2637.9	2878.4	3097.7	3091.2	2944.3	3047.0	2792.1
62.5°	1969.0	1997.7	2157.4	2397.3	2892.5	3414.4	3491.0	3483.0	3243.3	3307.8	3053.4
65°	1411.1	1443.6	1636.3	1996.9	2769.1	4004.9	4200.8	4093.4	3651.1	3628.6	3359.4
67.5°	814.1	821.8	905.3	1194.9	2108.4	4035.8	5283.7	5133.4	4284.3	3992.6	3509.1
70°	602.0	601.8	621.6	735.3	1140.9	3293.8	5798.8	5933.6	4951.0	4112.4	3297.5
71°	544.4	545.0	567.2	669.3	903.6	2757.0	5689.4	5984.5	5126.7	4053.3	3144.3
72.5°	465.6	467.8	498.6	600.2	760.1	1901.3	5218.1	5679.0	5209.9	3907.4	2904.6
75°	353.2	358.2	400.9	506.0	694.7	964.2	3829.7	4534.8	4628.3	3447.8	2158.2
77.5°	252.0	257.6	305.9	425.5	660.4	726.7	2564.7	3307.8	3406.0	2209.6	973.5
80°	159.2	165.9	202.4	338.5	620.5	690.0	1611.7	2223.4	1857.3	707.0	247.7
82.5°	93.4	98.6	125.6	221.2	506.8	664.5	948.3	1232.4	722.8	213.6	112.6
85°	54.2	56.5	78.3	140.9	368.1	627.2	696.7	688.9	313.7	104.4	53.3
87.5°	25.2	28.0	46.4	73.6	204.3	454.6	550.6	475.7	195.0	49.0	25.0
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°	1716.2	1716.2	1716.2	1716.2	1716.2	1716.2	1716.2	1716.2	1716.2	1716.2	1716.2
2.5°	1701.3	1697.6	1682.3	1668.7	1654.4	1635.9	1615.4	1612.8	1600.3	1602.7	1598.3
5°	1667.6	1658.3	1621.4	1588.0	1548.5	1513.1	1474.7	1457.0	1431.6	1429.8	1423.4
7.5°	1619.5	1602.2	1545.1	1481.6	1418.2	1357.8	1298.0	1258.7	1218.6	1201.6	1200.1
10°	1565.3	1536.0	1451.8	1358.0	1266.5	1178.3	1092.8	1029.6	972.6	945.7	944.6
12.5°	1514.0	1470.6	1355.2	1227.5	1102.3	988.0	870.8	787.7	716.3	692.4	682.2
15°	1470.4	1409.3	1261.1	1097.8	945.9	787.1	653.8	566.4	500.3	477.5	473.2
17.5°	1428.1	1349.6	1164.7	966.8	783.2	608.7	475.1	410.2	375.0	365.7	365.5
20°	1386.0	1288.1	1063.9	832.8	625.9	455.3	365.3	336.2	324.3	323.2	321.5
22.5°	1338.4	1222.9	958.0	698.4	488.5	357.9	310.5	298.8	297.3	301.2	301.2
25°	1293.7	1158.2	850.5	566.8	380.0	298.6	277.3	274.9	279.0	285.9	286.5
27.5°	1252.1	1095.8	745.7	449.9	304.4	263.0	254.2	257.0	264.3	272.3	272.5
30°	1217.7	1036.9	643.8	354.5	257.2	236.5	235.0	240.6	248.6	254.8	256.3
32.5°	1191.2	986.7	545.4	285.0	226.3	216.6	217.9	222.7	227.6	231.1	233.5
35°	1178.9	943.5	454.6	240.4	206.7	201.3	203.0	205.6	207.8	210.4	212.3
37.5°	1181.1	910.1	373.5	212.5	193.5	190.7	190.7	190.7	190.7	192.0	192.2
40°	1201.1	890.9	307.5	194.8	184.7	181.7	179.3	177.1	175.4	176.3	175.8
42.5°	1252.5	889.1	259.1	183.6	177.6	172.6	167.9	164.8	162.7	163.5	164.0
45°	1339.7	910.7	226.5	175.6	170.9	163.3	157.3	154.1	152.5	155.3	155.8
47.5°	1452.5	957.8	206.7	169.8	164.6	154.7	148.2	145.2	145.6	149.7	150.8
50°	1597.9	1034.1	197.2	166.1	160.3	147.4	140.7	138.1	139.4	145.2	146.5
52.5°	1757.6	1144.2	198.3	165.1	157.5	142.0	134.8	131.8	134.0	139.4	140.5
55°	1941.8	1276.4	216.2	166.6	153.4	138.5	130.1	124.9	126.7	131.6	132.5
57.5°	2146.6	1427.9	252.2	166.1	148.2	135.3	125.1	117.4	118.7	121.7	122.6
60°	2359.8	1610.9	308.1	167.4	145.9	131.4	118.5	108.7	108.3	110.9	111.3
62.5°	2615.7	1822.5	372.0	168.3	147.4	126.4	109.6	100.1	98.8	99.5	99.9
65°	2879.3	1975.7	348.0	164.8	152.1	122.3	101.8	91.7	89.3	88.9	89.1
67.5°	2887.5	1811.5	244.0	157.9	154.1	120.2	96.0	84.6	80.7	79.2	79.0
70°	2589.5	1471.7	190.1	150.6	146.3	116.7	90.6	78.8	72.9	70.6	70.3
71°	2444.1	1354.8	180.2	146.9	140.5	113.3	88.2	76.2	70.1	67.5	67.1
72.5°	2216.1	1214.5	168.1	141.1	129.2	104.4	83.7	72.5	66.2	63.2	62.6
75°	1590.4	794.2	144.3	125.8	107.0	83.3	73.4	65.2	59.8	56.1	55.7
77.5°	612.8	316.1	109.2	104.6	82.0	65.2	60.4	56.3	52.4	48.8	48.5
80°	189.4	141.3	79.6	78.8	59.3	48.5	47.0	46.0	44.4	40.6	39.7
82.5°	101.2	81.1	54.8	50.9	38.8	32.4	34.1	34.5	34.7	30.6	30.2
85°	48.3	42.9	30.9	28.9	22.7	18.1	20.9	22.7	22.9	18.8	17.5
87.5°	23.1	22.4	14.5	11.0	8.4	6.0	7.3	9.1	9.9	7.1	6.3
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)