

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: P318827

Luminaire Tested: **GAN-SA3A-827-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318827
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3A-827-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10521 lumens
Efficiency: N/A
Efficacy: 109.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

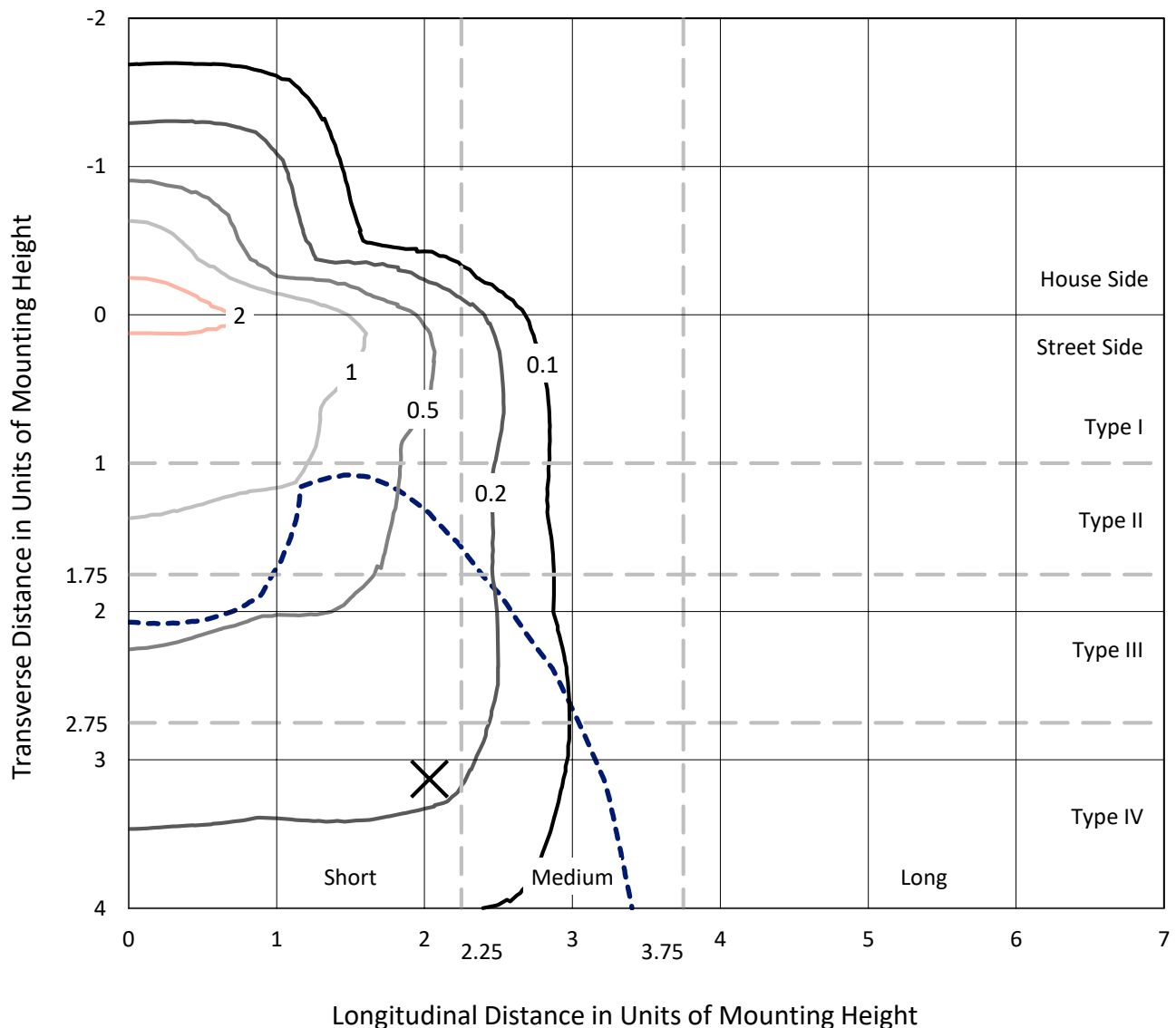
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

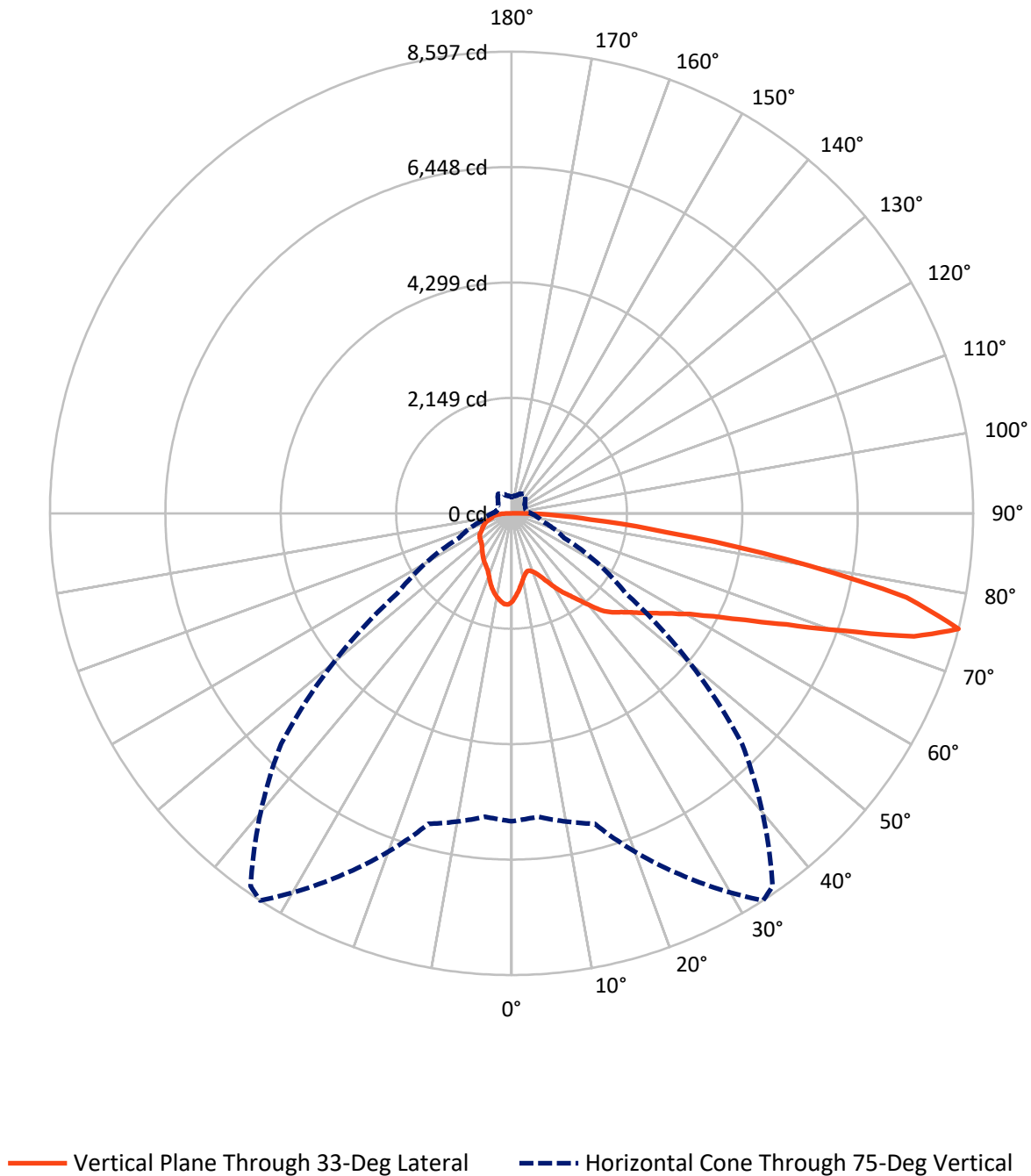
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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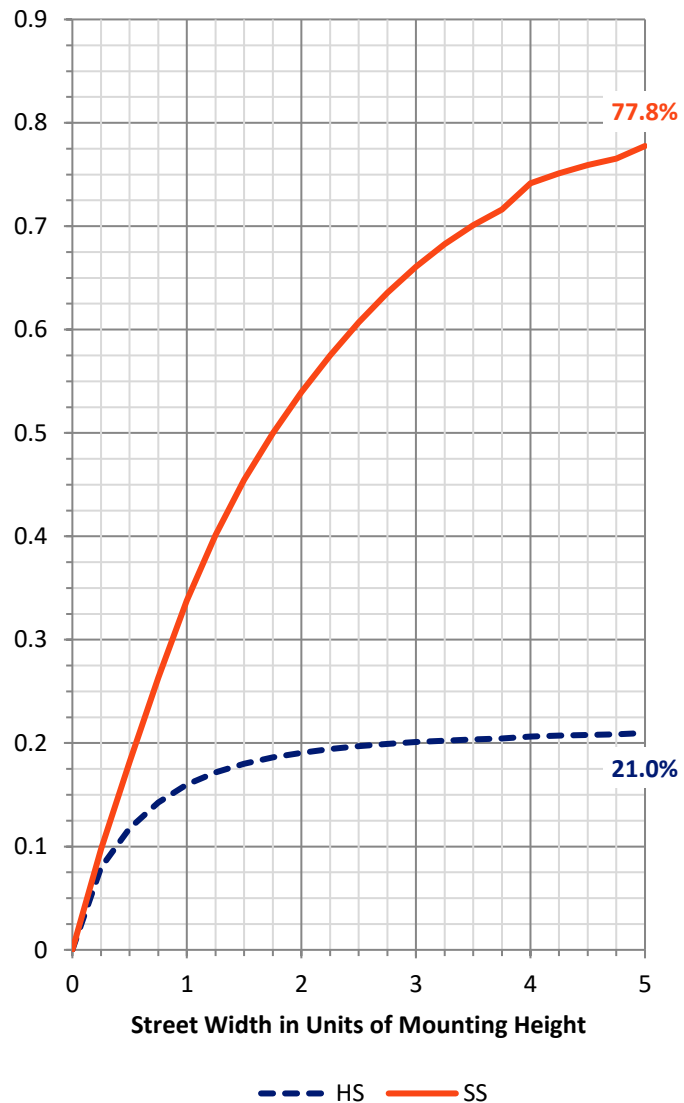
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2259.1	0.0	2259.1
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	8261.9	0.0	8261.9
	% Fixture	78.5	0.0	78.5
Total	Lumens	10521.0	0.0	10521.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.7	1.4
10°-20°	402.8	3.8
20°-30°	657.8	6.3
30°-40°	979.7	9.3
40°-50°	1405.1	13.4
50°-60°	1929.0	18.3
60°-70°	2415.1	23.0
70°-80°	2184.8	20.8
80°-90°	398.0	3.8
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°	10521.0	100.0
0°-180°	10521.0	100.0

Coefficient of Utilization



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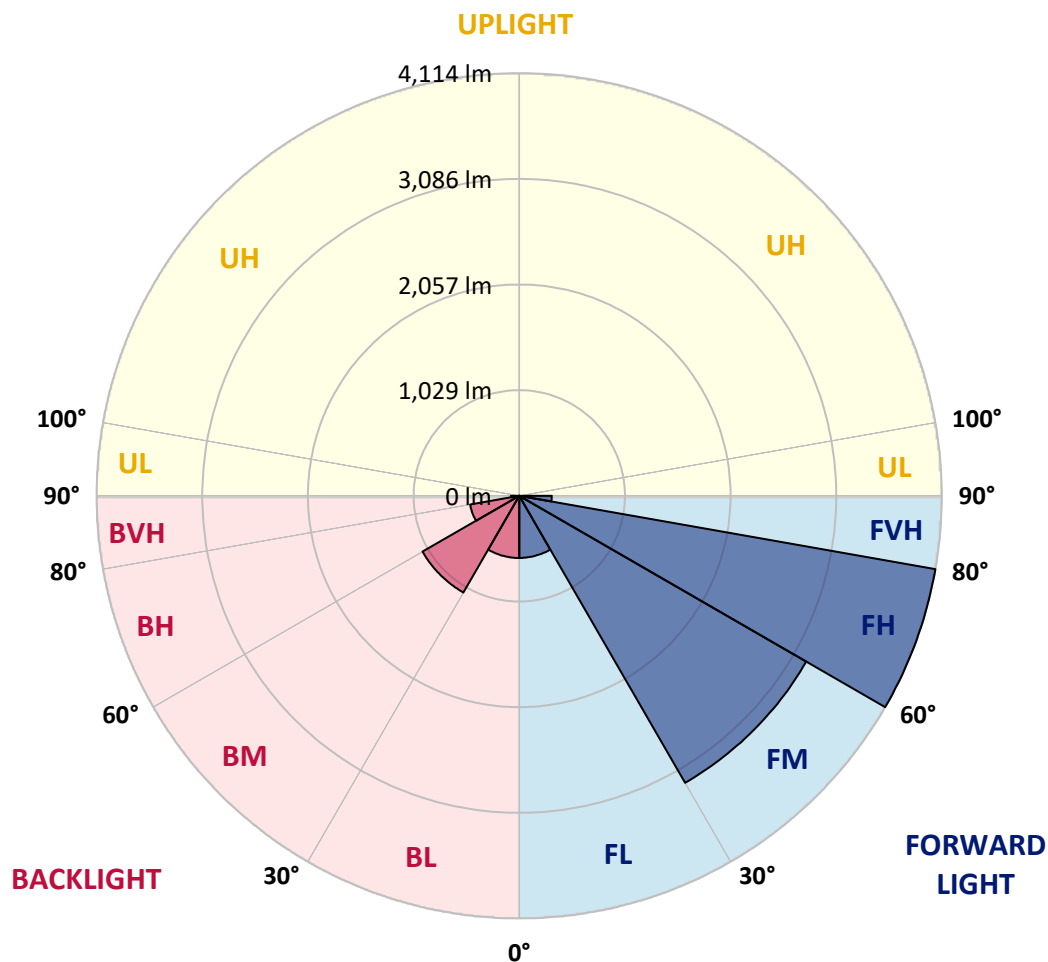
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	604.3	5.7			
FM	(30°-60°)	3226.6	30.7			
FH	(60°-80°)	4114.1	39.1			G2/5000
FVH	(80°-90°)	316.9	3.0			G3/500
BL	(0°-30°)	605.1	5.8	B2/1000		
BM	(30°-60°)	1087.3	10.3	B2/2500		
BH	(60°-80°)	485.8	4.6	B1/500		G1/500
BVH	(80°-90°)	81.0	0.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	1644.5	1644.5	1644.5	1644.5	1644.5	1644.5	1644.5	1644.5	1644.5	1644.5	1644.5
2.5°	1527.1	1521.3	1532.2	1533.6	1543.1	1546.7	1559.8	1580.2	1596.9	1616.1	1633.6
5°	1388.6	1384.6	1399.9	1410.8	1431.5	1440.2	1471.1	1514.4	1552.9	1596.5	1636.1
7.5°	1257.1	1254.9	1272.0	1296.7	1320.7	1332.7	1386.1	1449.0	1513.3	1583.8	1644.5
10°	1146.2	1145.5	1161.9	1186.2	1221.5	1234.9	1304.0	1386.8	1477.0	1574.0	1658.7
12.5°	1084.1	1086.6	1094.3	1114.6	1147.3	1160.8	1237.5	1334.9	1446.4	1570.7	1679.4
15°	1099.4	1103.4	1090.3	1089.5	1112.8	1123.3	1195.3	1297.8	1424.6	1576.2	1709.5
17.5°	1164.4	1165.1	1130.6	1108.8	1123.0	1128.4	1182.2	1276.7	1411.9	1588.5	1747.3
20°	1256.0	1254.2	1193.1	1156.8	1164.4	1165.9	1200.8	1277.1	1410.8	1610.0	1796.4
22.5°	1377.4	1363.9	1281.8	1232.4	1230.6	1228.4	1248.4	1304.0	1426.8	1644.9	1854.9
25°	1535.8	1523.1	1410.1	1342.5	1327.9	1322.5	1325.4	1361.4	1458.4	1682.3	1920.3
27.5°	1712.1	1689.9	1580.9	1485.3	1455.1	1447.5	1430.1	1442.4	1492.9	1718.3	1998.1
30°	1859.6	1847.6	1752.4	1639.0	1603.4	1592.5	1546.7	1533.3	1542.7	1767.3	2096.2
32.5°	1942.1	1934.1	1876.4	1784.8	1751.7	1736.4	1671.7	1644.9	1622.7	1844.7	2229.2
35°	2042.1	2037.0	2002.1	1935.6	1886.5	1870.5	1820.4	1792.4	1735.3	1951.2	2401.1
37.5°	2169.3	2163.8	2164.6	2110.8	2052.3	2037.4	2004.3	1974.8	1881.4	2091.1	2587.9
40°	2313.2	2302.7	2298.7	2296.1	2259.0	2250.7	2233.2	2193.3	2064.6	2258.3	2772.2
42.5°	2529.8	2492.4	2412.4	2442.6	2479.3	2474.9	2489.1	2431.7	2268.1	2456.0	2952.1
45°	2738.8	2677.3	2539.2	2545.8	2626.1	2650.4	2756.6	2715.9	2488.7	2672.6	3138.2
47.5°	2834.0	2787.5	2670.1	2670.4	2750.0	2800.5	3033.1	3004.1	2720.6	2918.7	3365.3
50°	2940.5	2893.9	2788.5	2828.2	2897.6	2951.4	3300.2	3285.3	2941.2	3188.0	3637.5
52.5°	3056.8	2977.9	2911.0	2981.9	3079.3	3141.8	3567.7	3527.0	3143.6	3459.1	3950.4
55°	3058.2	3036.8	3087.6	3139.6	3285.3	3362.0	3847.9	3740.4	3308.6	3725.5	4205.2
57.5°	3232.3	3197.4	3305.3	3329.3	3519.8	3606.3	4126.7	3926.1	3476.5	3929.7	4342.5
60°	3462.7	3432.9	3521.2	3584.4	3809.8	3925.3	4424.3	4116.9	3608.4	4083.8	4336.0
62.5°	3860.6	3826.8	3825.8	3914.4	4217.9	4352.4	4758.3	4304.0	3660.8	4114.3	4151.0
65°	4443.2	4389.4	4288.0	4330.2	4781.6	4915.7	5131.5	4439.6	3591.7	3950.8	3674.6
67.5°	5010.2	5008.3	4883.7	4970.2	5525.9	5633.4	5556.7	4453.0	3376.2	3381.3	2829.3
70°	5575.3	5582.5	5561.5	5862.4	6531.4	6643.4	6009.6	4272.4	2891.8	2441.8	1695.0
72.5°	6023.0	6021.2	6127.3	6903.2	7836.5	7811.4	6391.2	3725.1	2076.2	1318.1	810.1
75°	5733.0	5669.8	5985.9	7418.6	8597.1	8474.7	6066.6	2598.5	1077.6	600.0	436.1
77.5°	3739.3	3799.2	4263.3	6128.4	7520.0	7371.0	4450.8	1212.4	507.7	393.6	316.2
80°	1354.1	1417.4	1996.3	3471.4	5181.0	5156.6	2191.8	498.3	343.4	297.3	230.4
82.5°	465.9	489.2	787.5	1541.6	2925.2	3034.2	824.6	283.1	249.7	210.8	157.7
85°	182.8	209.3	360.2	741.7	1475.5	1486.4	334.0	169.4	173.7	138.1	86.5
87.5°	69.4	84.3	172.3	344.5	673.8	618.9	119.6	80.7	98.9	82.1	41.1
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°	1644.5	1644.5	1644.5	1644.5	1644.5	1644.5	1644.5	1644.5	1644.5	1644.5	1644.5
2.5°	1647.0	1654.7	1670.7	1681.6	1693.2	1696.5	1697.9	1700.8	1703.7	1702.6	1703.0
5°	1657.2	1672.1	1697.9	1708.8	1713.9	1708.1	1696.8	1687.7	1681.2	1677.6	1676.5
7.5°	1673.9	1695.0	1722.6	1720.8	1709.2	1683.4	1654.3	1632.5	1614.3	1607.8	1604.2
10°	1696.1	1720.8	1740.1	1719.4	1685.6	1640.9	1597.2	1563.4	1536.2	1525.7	1523.8
12.5°	1724.4	1749.5	1753.2	1709.2	1653.2	1592.2	1532.9	1488.2	1447.5	1434.4	1431.5
15°	1761.2	1784.8	1762.2	1691.4	1613.2	1531.1	1454.4	1393.7	1350.8	1334.9	1329.0
17.5°	1799.7	1822.2	1764.1	1661.9	1560.9	1458.8	1362.5	1300.3	1251.3	1232.7	1230.6
20°	1845.8	1856.0	1756.4	1619.8	1488.9	1365.0	1263.6	1205.1	1178.9	1165.9	1164.4
22.5°	1902.9	1892.0	1739.0	1562.7	1397.7	1256.7	1174.2	1147.0	1140.4	1137.5	1138.6
25°	1963.2	1929.8	1713.2	1488.2	1282.5	1148.4	1108.8	1116.4	1125.2	1124.1	1124.1
27.5°	2029.7	1968.3	1673.6	1389.4	1155.0	1059.7	1064.5	1092.5	1105.5	1105.2	1104.8
30°	2115.1	2011.9	1623.0	1270.5	1035.8	997.2	1025.9	1060.1	1077.9	1077.2	1077.6
32.5°	2220.2	2059.9	1554.4	1137.9	949.6	951.1	984.2	1017.9	1038.7	1036.8	1037.2
35°	2343.0	2113.7	1461.3	1007.0	892.6	914.4	940.5	964.2	983.8	981.2	978.7
37.5°	2476.7	2166.4	1337.8	890.0	846.0	880.2	902.0	906.0	915.1	908.6	903.8
40°	2603.9	2206.7	1178.6	794.1	799.2	851.1	865.3	849.3	833.0	830.8	824.2
42.5°	2714.8	2220.2	1017.6	717.4	749.7	820.6	829.3	795.9	766.5	752.7	746.8
45°	2831.8	2224.9	867.5	653.1	702.1	793.4	802.8	758.1	716.7	686.9	677.1
47.5°	2984.8	2259.0	750.8	605.5	665.8	775.2	788.6	727.9	674.2	631.6	622.5
50°	3185.0	2326.6	656.0	569.1	642.2	763.2	778.5	698.5	639.3	588.0	578.9
52.5°	3407.5	2388.8	579.3	539.7	619.3	742.1	765.4	677.4	606.6	547.7	537.9
55°	3563.0	2341.2	517.5	509.2	589.5	711.9	747.2	659.6	559.7	508.4	499.7
57.5°	3592.8	2178.4	470.6	477.5	553.5	674.2	719.2	620.0	534.2	491.3	482.3
60°	3511.4	1951.6	435.7	448.5	515.0	626.5	666.9	592.0	509.9	473.2	465.5
62.5°	3306.8	1719.4	409.9	422.3	479.0	578.2	634.2	562.6	485.2	452.5	444.8
65°	2893.6	1443.5	385.2	399.0	445.6	536.4	604.7	535.3	460.8	435.7	428.5
67.5°	2184.2	1081.2	362.0	374.3	415.8	500.1	572.8	508.4	437.2	421.2	412.5
70°	1286.2	677.1	335.4	348.5	384.5	462.3	538.6	479.0	407.8	400.5	389.2
72.5°	598.6	407.4	305.3	318.0	345.3	411.8	494.6	440.5	372.9	356.9	341.6
75°	357.2	298.0	269.7	280.9	300.2	358.0	439.4	401.2	339.8	318.7	302.7
77.5°	267.1	227.9	230.4	242.4	258.0	313.3	389.2	370.3	314.4	298.0	287.1
80°	192.3	173.0	187.9	201.0	217.3	284.9	372.9	342.3	284.2	262.4	252.2
82.5°	128.3	124.3	141.4	154.8	170.8	249.3	350.3	299.8	242.8	215.1	192.6
85°	70.9	74.9	95.2	101.0	114.8	175.5	287.1	240.9	182.8	147.2	140.6
87.5°	29.4	34.5	51.2	49.4	61.1	104.7	189.0	145.4	116.3	86.9	67.6
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)