

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: P318656

Luminaire Tested: **GAN-SA2D-727-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318656
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-SA2D-727-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1200mA 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: 13356 lumens
Efficiency: N/A
Efficacy: 103.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

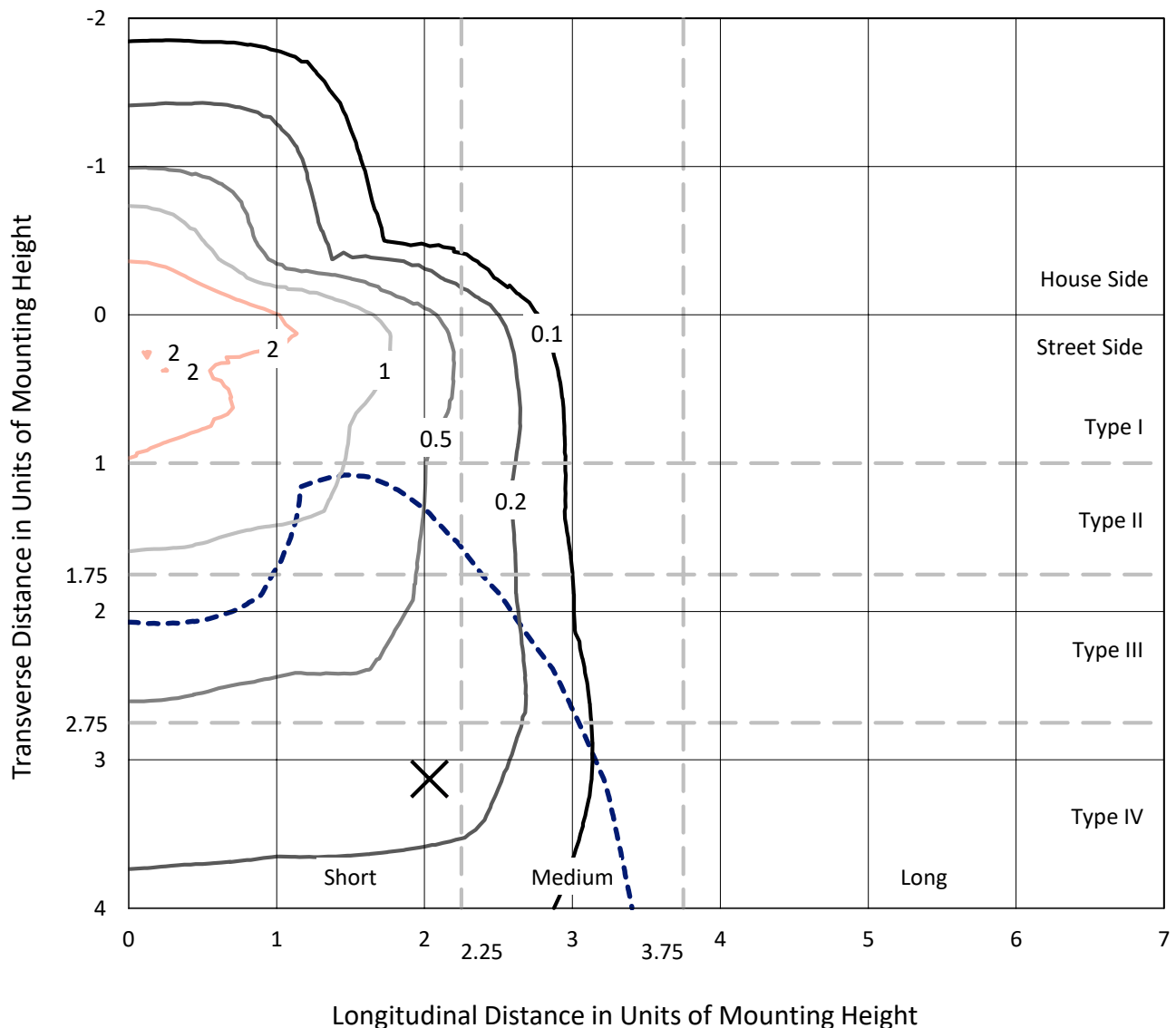
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

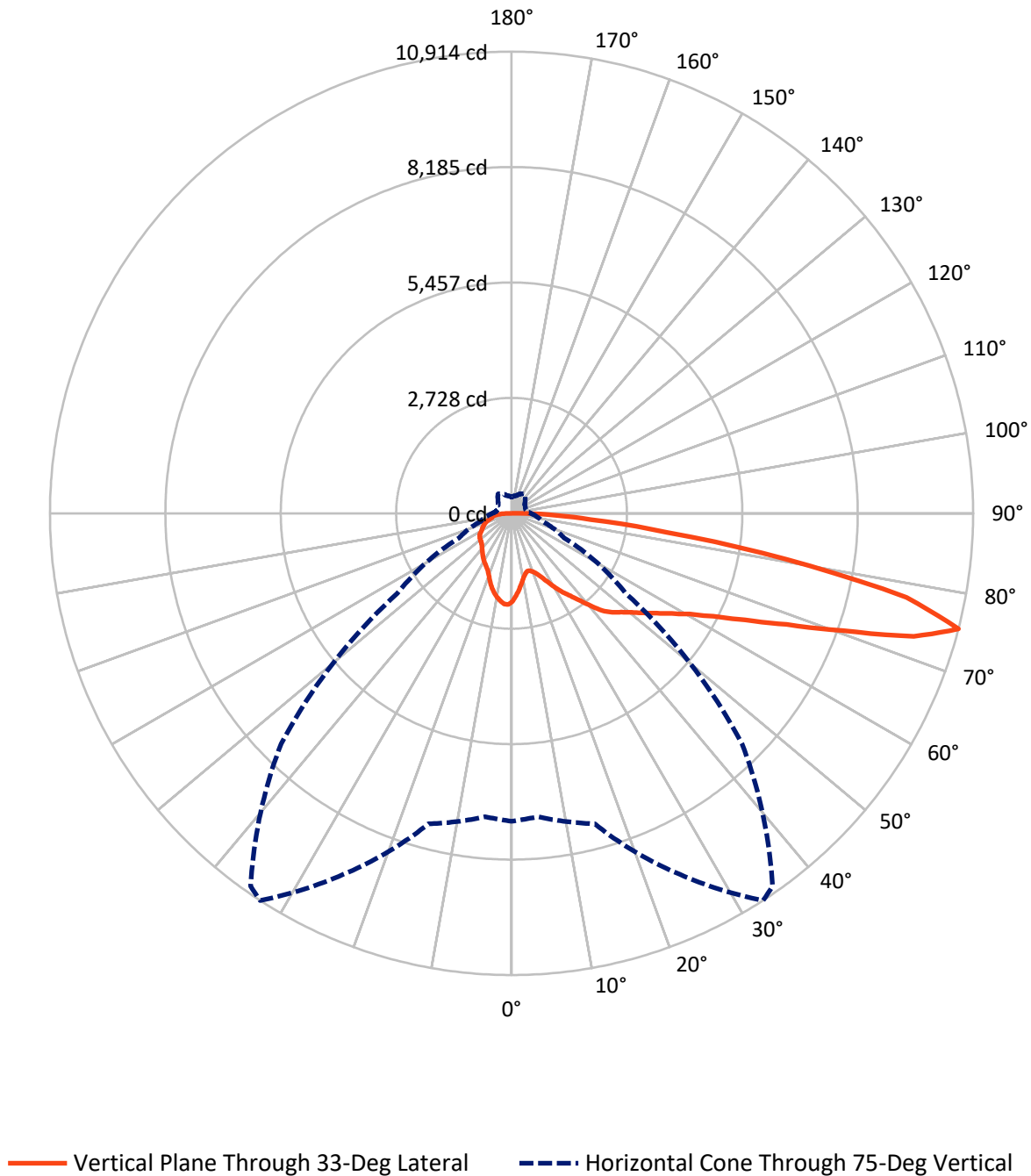
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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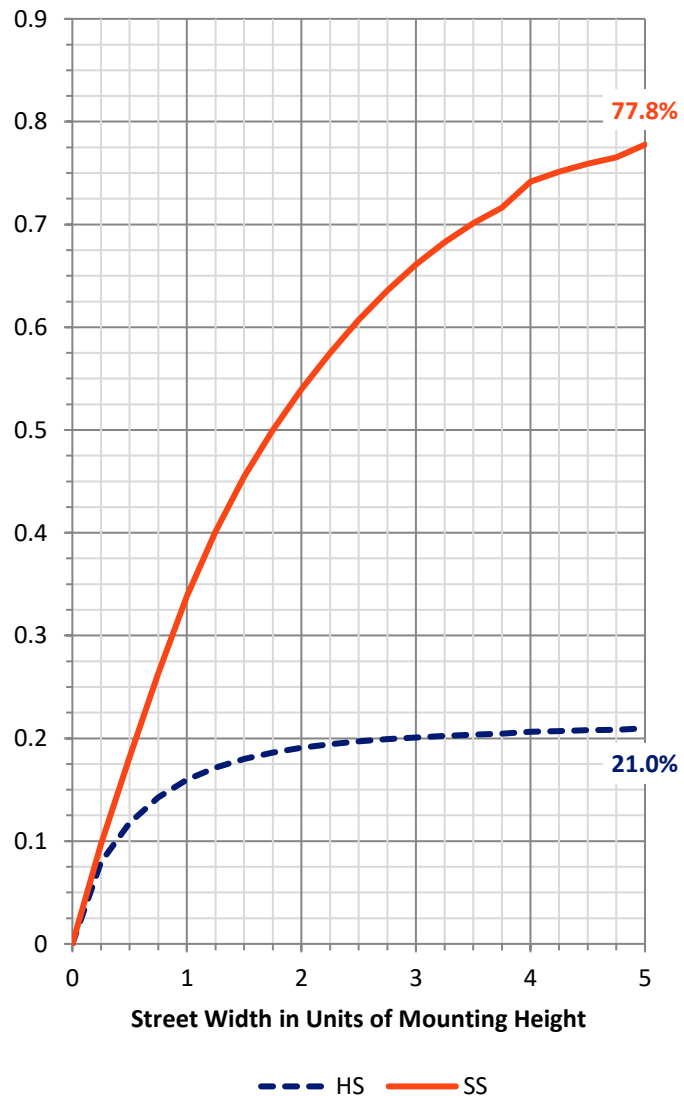
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2867.9	0.0	2867.9
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	10488.1	0.0	10488.1
	% Fixture	78.5	0.0	78.5
Total	Lumens	13356.0	0.0	13356.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.8	1.4
10°-20°	511.3	3.8
20°-30°	835.1	6.3
30°-40°	1243.7	9.3
40°-50°	1783.8	13.4
50°-60°	2448.8	18.3
60°-70°	3065.8	23.0
70°-80°	2773.5	20.8
80°-90°	505.2	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°	13356.0	100.0
0°-180°	13356.0	100.0

Coefficient of Utilization



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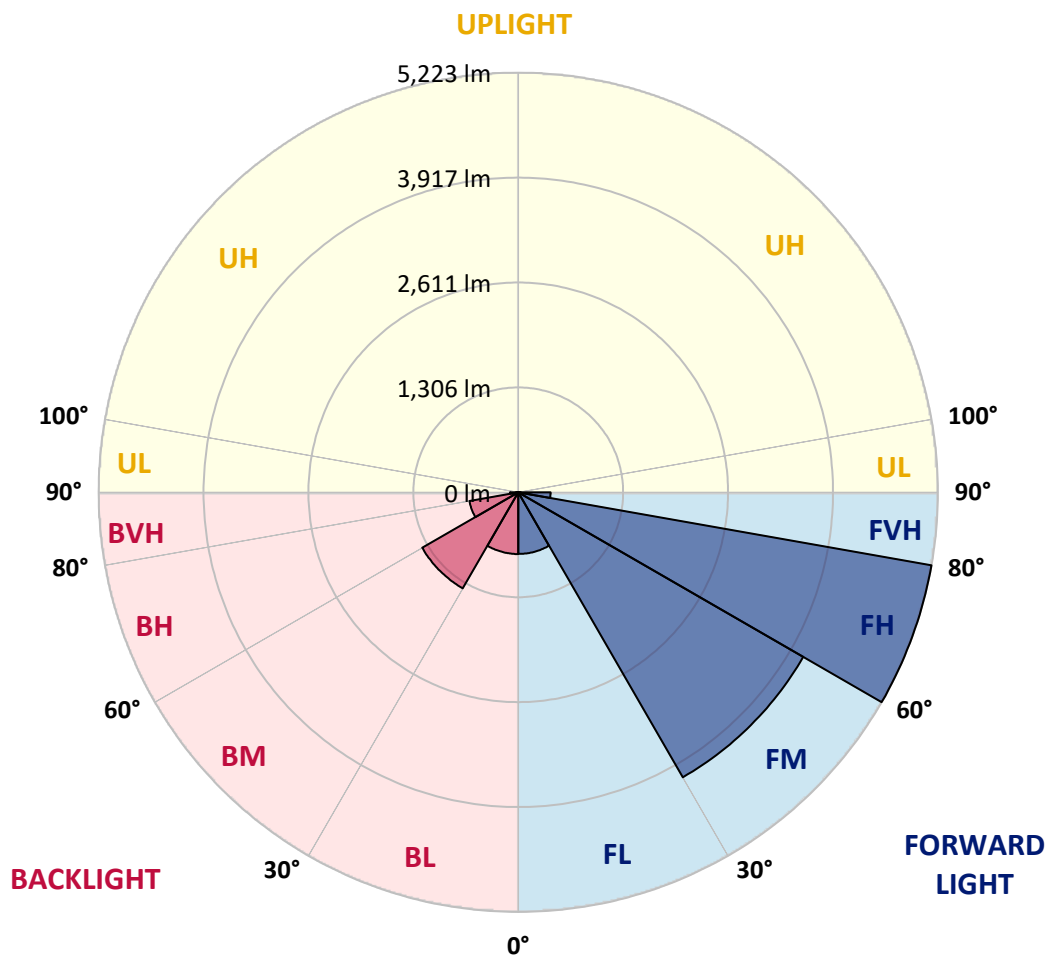
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	767.1	5.7			
FM	(30°-60°)	4096.0	30.7			
FH	(60°-80°)	5222.7	39.1			G3/7500
FVH	(80°-90°)	402.4	3.0			G3/500
BL	(0°-30°)	768.2	5.8	B2/1000		
BM	(30°-60°)	1380.2	10.3	B2/2500		
BH	(60°-80°)	616.6	4.6	B2/1000		G2/1000
BVH	(80°-90°)	102.9	0.8			G2/225
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°	2087.6	2087.6	2087.6	2087.6	2087.6	2087.6	2087.6	2087.6	2087.6	2087.6	2087.6
2.5°	1938.6	1931.2	1945.1	1946.9	1958.9	1963.5	1980.1	2006.0	2027.2	2051.6	2073.8
5°	1762.8	1757.8	1777.1	1791.0	1817.3	1828.3	1867.6	1922.5	1971.4	2026.7	2077.0
7.5°	1595.8	1593.0	1614.7	1646.1	1676.6	1691.8	1759.6	1839.4	1921.1	2010.6	2087.6
10°	1455.1	1454.2	1474.9	1505.9	1550.6	1567.7	1655.3	1760.5	1874.9	1998.1	2105.6
12.5°	1376.2	1379.4	1389.1	1415.0	1456.5	1473.6	1570.9	1694.5	1836.2	1994.0	2131.9
15°	1395.6	1400.7	1384.1	1383.1	1412.7	1426.0	1517.4	1647.5	1808.5	2000.9	2170.2
17.5°	1478.2	1479.1	1435.3	1407.6	1425.6	1432.5	1500.8	1620.7	1792.4	2016.6	2218.2
20°	1594.4	1592.1	1514.6	1468.5	1478.2	1480.0	1524.3	1621.2	1791.0	2043.8	2280.5
22.5°	1748.5	1731.5	1627.2	1564.4	1562.1	1559.4	1584.7	1655.3	1811.3	2088.1	2354.7
25°	1949.7	1933.5	1790.0	1704.2	1685.8	1678.9	1682.6	1728.2	1851.4	2135.6	2437.8
27.5°	2173.4	2145.3	2006.9	1885.5	1847.3	1837.6	1815.4	1831.1	1895.2	2181.3	2536.5
30°	2360.7	2345.5	2224.6	2080.7	2035.5	2021.6	1963.5	1946.4	1958.4	2243.6	2661.1
32.5°	2465.5	2455.3	2382.0	2265.7	2223.7	2204.3	2122.2	2088.1	2059.9	2341.8	2829.9
35°	2592.3	2585.9	2541.6	2457.2	2394.9	2374.6	2310.9	2275.4	2203.0	2477.0	3048.2
37.5°	2753.8	2746.9	2747.8	2679.5	2605.3	2586.3	2544.4	2507.0	2388.4	2654.6	3285.3
40°	2936.5	2923.1	2918.1	2914.8	2867.8	2857.2	2835.0	2784.3	2620.9	2866.8	3519.2
42.5°	3211.5	3164.0	3062.5	3100.7	3147.3	3141.8	3159.8	3086.9	2879.3	3117.8	3747.6
45°	3476.7	3398.8	3223.5	3231.8	3333.7	3364.6	3499.4	3447.7	3159.3	3392.8	3983.8
47.5°	3597.6	3538.6	3389.6	3390.0	3491.1	3555.2	3850.4	3813.5	3453.7	3705.1	4272.1
50°	3732.8	3673.7	3540.0	3590.2	3678.4	3746.6	4189.5	4170.6	3733.7	4047.0	4617.7
52.5°	3880.4	3780.3	3695.4	3785.4	3909.0	3988.4	4529.1	4477.4	3990.7	4391.1	5014.9
55°	3882.3	3855.1	3919.6	3985.6	4170.6	4268.0	4884.8	4748.2	4200.1	4729.3	5338.3
57.5°	4103.3	4059.0	4196.0	4226.4	4468.2	4578.0	5238.7	4984.0	4413.3	4988.6	5512.7
60°	4395.8	4357.9	4470.0	4550.3	4836.4	4983.1	5616.5	5226.2	4580.8	5184.2	5504.4
62.5°	4900.9	4858.0	4856.7	4969.2	5354.5	5525.2	6040.5	5463.8	4647.2	5223.0	5269.6
65°	5640.5	5572.2	5443.5	5497.0	6070.0	6240.2	6514.3	5635.9	4559.5	5015.4	4664.7
67.5°	6360.2	6357.9	6199.6	6309.4	7014.9	7151.4	7054.1	5652.9	4286.0	4292.4	3591.6
70°	7077.6	7086.8	7060.1	7442.1	8291.4	8433.5	7628.9	5423.7	3671.0	3099.8	2151.7
72.5°	7646.0	7643.7	7778.4	8763.4	9948.1	9916.3	8113.3	4728.9	2635.7	1673.3	1028.4
75°	7277.8	7197.6	7598.9	9417.6	10913.7	10758.3	7701.3	3298.7	1367.9	761.7	553.6
77.5°	4746.9	4823.0	5412.1	7779.8	9546.3	9357.1	5650.2	1539.1	644.5	499.6	401.4
80°	1719.0	1799.3	2534.2	4406.8	6577.0	6546.1	2782.4	632.5	436.0	377.4	292.5
82.5°	591.5	621.0	999.7	1957.1	3713.4	3851.8	1046.8	359.4	316.9	267.6	200.2
85°	232.1	265.7	457.2	941.6	1873.1	1886.9	424.0	215.0	220.5	175.3	109.8
87.5°	88.1	107.0	218.7	437.4	855.3	785.7	151.8	102.4	125.5	104.3	52.1
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°	2087.6	2087.6	2087.6	2087.6	2087.6	2087.6	2087.6	2087.6	2087.6	2087.6	2087.6
2.5°	2090.8	2100.5	2120.8	2134.7	2149.4	2153.6	2155.4	2159.1	2162.8	2161.4	2161.9
5°	2103.8	2122.7	2155.4	2169.3	2175.7	2168.4	2154.1	2142.5	2134.2	2129.6	2128.2
7.5°	2125.0	2151.7	2186.8	2184.5	2169.7	2137.0	2100.1	2072.4	2049.3	2041.0	2036.4
10°	2153.1	2184.5	2209.0	2182.7	2139.8	2083.0	2027.6	1984.7	1950.1	1936.8	1934.4
12.5°	2189.1	2220.9	2225.6	2169.7	2098.7	2021.2	1946.0	1889.2	1837.6	1821.0	1817.3
15°	2235.7	2265.7	2237.1	2147.1	2047.9	1943.7	1846.3	1769.3	1714.8	1694.5	1687.2
17.5°	2284.6	2313.2	2239.4	2109.8	1981.5	1851.9	1729.6	1650.7	1588.4	1564.9	1562.1
20°	2343.2	2356.1	2229.7	2056.2	1890.2	1732.8	1604.1	1529.8	1496.6	1480.0	1478.2
22.5°	2415.6	2401.8	2207.6	1983.8	1774.4	1595.4	1490.6	1456.0	1447.7	1444.0	1445.4
25°	2492.2	2449.8	2174.8	1889.2	1628.1	1457.9	1407.6	1417.3	1428.3	1427.0	1427.0
27.5°	2576.7	2498.7	2124.5	1763.7	1466.2	1345.3	1351.3	1386.8	1403.4	1403.0	1402.5
30°	2685.1	2554.0	2060.4	1612.9	1314.9	1265.9	1302.4	1345.8	1368.4	1367.4	1367.9
32.5°	2818.4	2614.9	1973.2	1444.5	1205.5	1207.4	1249.3	1292.2	1318.5	1316.2	1316.7
35°	2974.3	2683.2	1855.1	1278.4	1133.1	1160.8	1194.0	1224.0	1248.9	1245.7	1242.4
37.5°	3144.1	2750.1	1698.2	1129.9	1074.0	1117.4	1145.1	1150.2	1161.7	1153.4	1147.4
40°	3305.6	2801.3	1496.2	1008.1	1014.5	1080.5	1098.5	1078.2	1057.4	1054.7	1046.3
42.5°	3446.3	2818.4	1291.8	910.7	951.8	1041.7	1052.8	1010.4	973.0	955.5	948.1
45°	3594.9	2824.4	1101.2	829.0	891.3	1007.1	1019.1	962.4	909.8	872.0	859.5
47.5°	3789.1	2867.8	953.2	768.6	845.2	984.1	1001.1	924.1	855.8	801.8	790.3
50°	4043.3	2953.6	832.7	722.5	815.2	968.8	988.2	886.7	811.5	746.5	734.9
52.5°	4325.6	3032.5	735.4	685.1	786.1	942.1	971.6	860.0	770.0	695.3	682.8
55°	4523.1	2972.0	657.0	646.4	748.3	903.8	948.5	837.4	710.5	645.4	634.4
57.5°	4560.9	2765.3	597.5	606.2	702.6	855.8	913.0	787.1	678.2	623.7	612.2
60°	4457.6	2477.5	553.2	569.3	653.7	795.4	846.6	751.5	647.3	600.7	591.0
62.5°	4197.8	2182.7	520.4	536.1	608.1	734.0	805.1	714.2	615.9	574.4	564.7
65°	3673.3	1832.5	489.0	506.6	565.6	681.0	767.7	679.6	585.0	553.2	543.9
67.5°	2772.7	1372.5	459.5	475.2	527.8	634.8	727.1	645.4	555.0	534.7	523.6
70°	1632.7	859.5	425.8	442.4	488.1	586.8	683.7	608.1	517.6	508.4	494.1
72.5°	759.8	517.2	387.5	403.7	438.3	522.7	627.9	559.2	473.3	453.0	433.7
75°	453.5	378.3	342.3	356.6	381.1	454.4	557.8	509.3	431.4	404.6	384.3
77.5°	339.1	289.3	292.5	307.7	327.6	397.7	494.1	470.1	399.1	378.3	364.5
80°	244.1	219.6	238.5	255.1	275.9	361.7	473.3	434.6	360.8	333.1	320.2
82.5°	162.9	157.8	179.5	196.5	216.8	316.5	444.7	380.6	308.2	273.1	244.5
85°	90.0	95.0	120.9	128.3	145.8	222.8	364.5	305.9	232.1	186.8	178.5
87.5°	37.4	43.8	65.1	62.7	77.5	132.9	239.9	184.5	147.6	110.3	85.8
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)