

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: P318837

Luminaire Tested: **GAN-SA3B-827-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318837
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-SA3B-827-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 800mA 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: 12902 lumens
Efficiency: N/A
Efficacy: 104.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

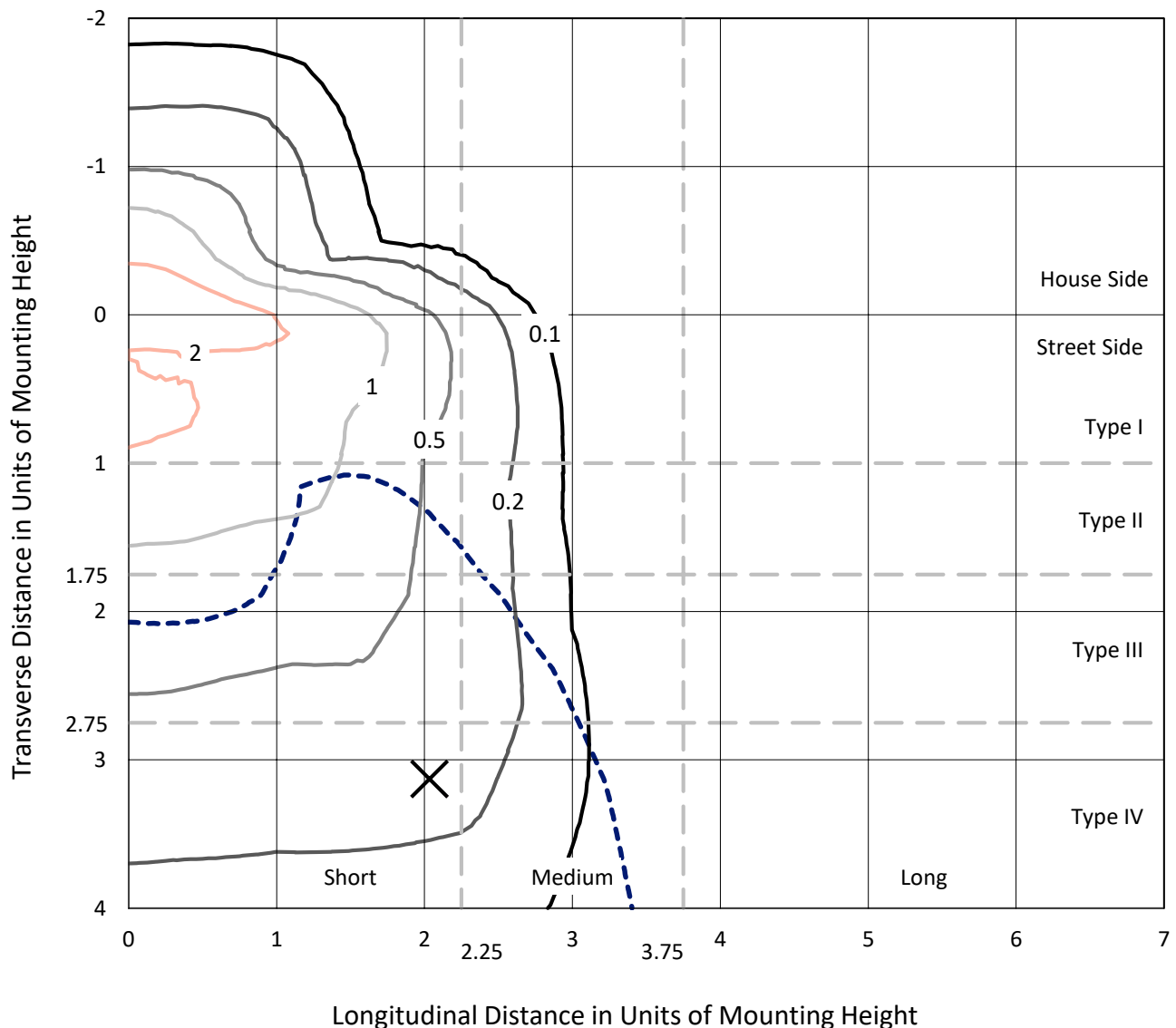
Input Watts (W): 124
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

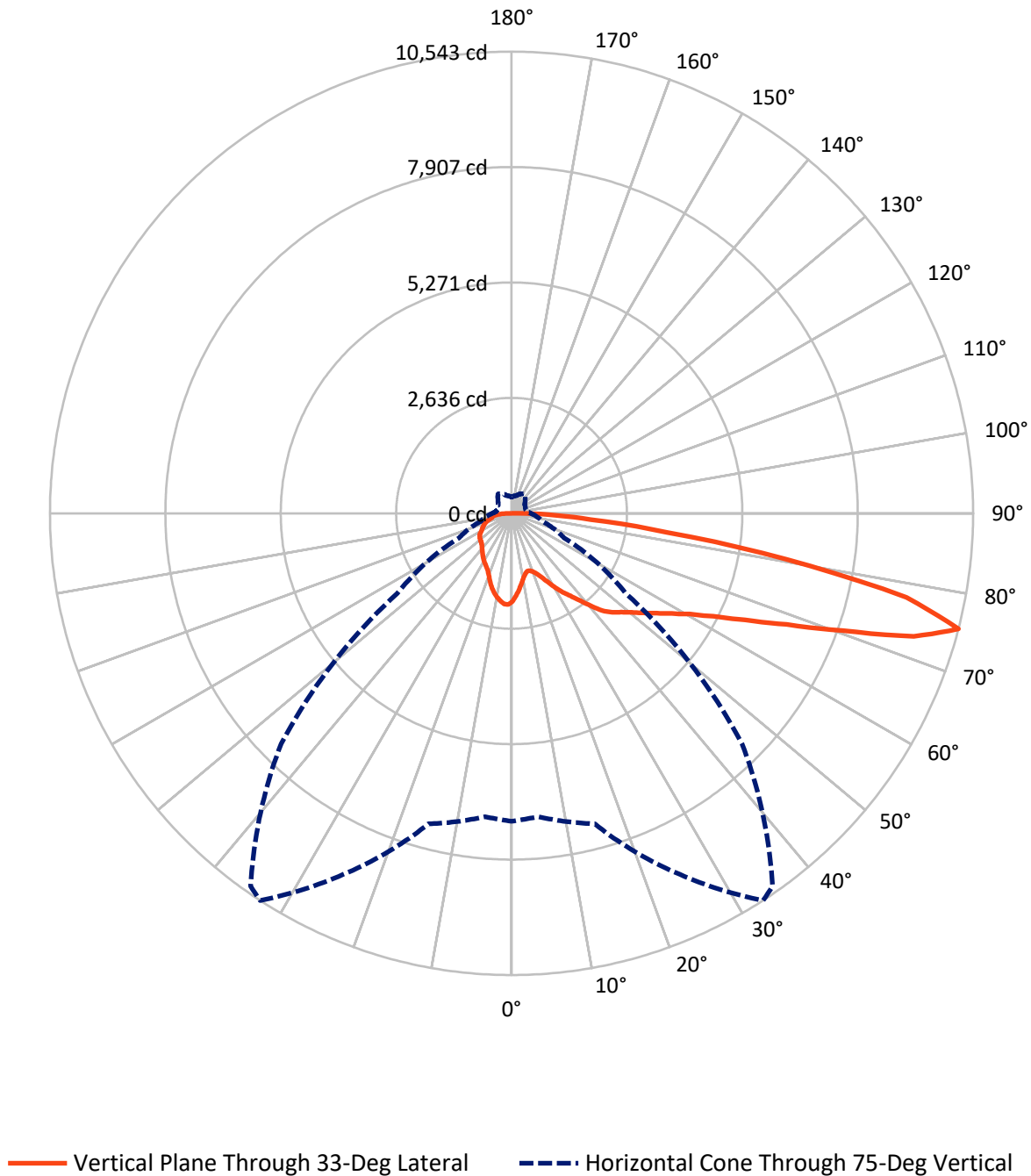
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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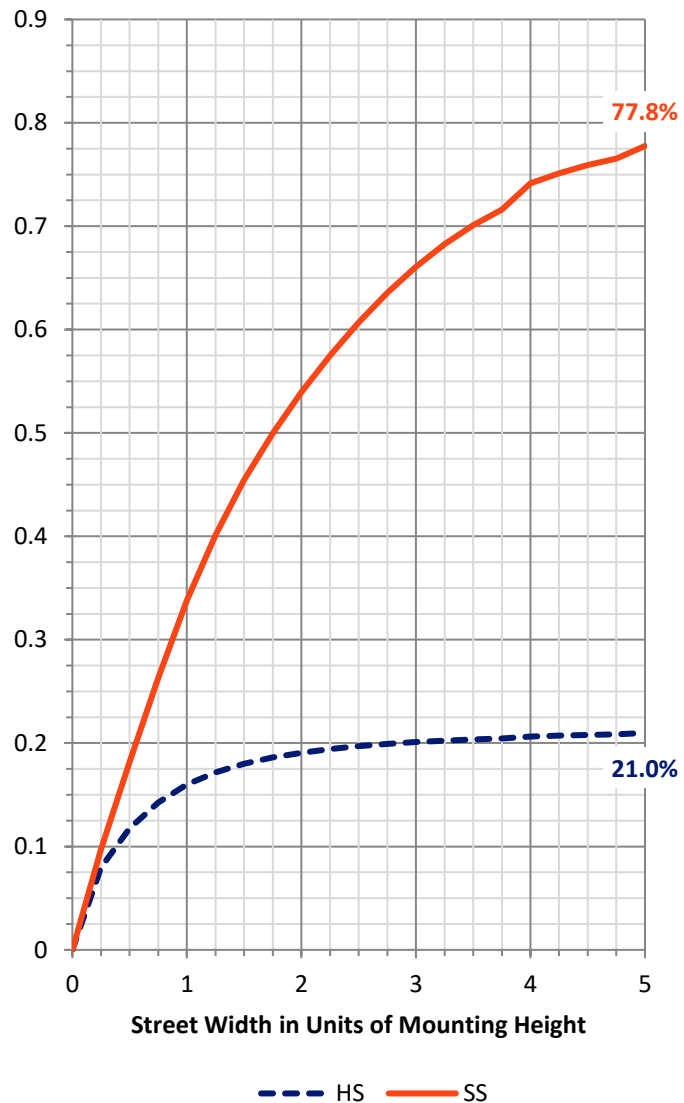
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2770.4	0.0	2770.4
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	10131.6	0.0	10131.6
	% Fixture	78.5	0.0	78.5
Total	Lumens	12902.0	0.0	12902.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.4	1.4
10°-20°	494.0	3.8
20°-30°	806.7	6.3
30°-40°	1201.4	9.3
40°-50°	1723.1	13.4
50°-60°	2365.6	18.3
60°-70°	2961.6	23.0
70°-80°	2679.2	20.8
80°-90°	488.0	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°	12902.0	100.0
0°-180°	12902.0	100.0

Coefficient of Utilization



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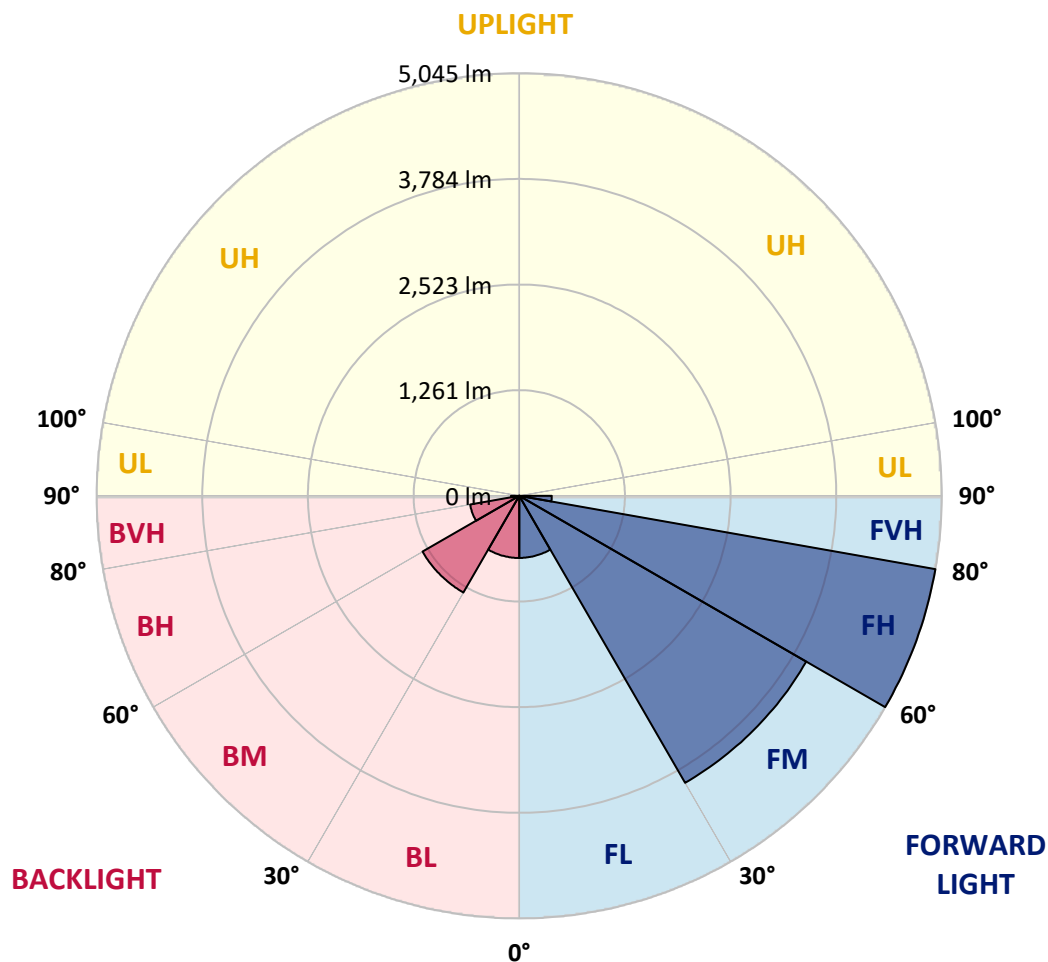
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	741.0	5.7			
FM	(30°-60°)	3956.8	30.7			
FH	(60°-80°)	5045.1	39.1			G3/7500
FVH	(80°-90°)	388.7	3.0			G3/500
BL	(0°-30°)	742.0	5.8	B2/1000		
BM	(30°-60°)	1333.3	10.3	B2/2500		
BH	(60°-80°)	595.7	4.6	B2/1000		G2/1000
BVH	(80°-90°)	99.4	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°	2016.7	2016.7	2016.7	2016.7	2016.7	2016.7	2016.7	2016.7	2016.7	2016.7	2016.7
2.5°	1872.7	1865.6	1878.9	1880.7	1892.3	1896.8	1912.8	1937.8	1958.3	1981.9	2003.3
5°	1702.9	1698.0	1716.7	1730.1	1755.5	1766.2	1804.1	1857.1	1904.3	1957.8	2006.4
7.5°	1541.6	1538.9	1559.8	1590.1	1619.6	1634.3	1699.8	1776.9	1855.8	1942.2	2016.7
10°	1405.6	1404.8	1424.8	1454.7	1497.9	1514.4	1599.1	1700.7	1811.2	1930.2	2034.0
12.5°	1329.4	1332.6	1341.9	1366.9	1407.0	1423.5	1517.5	1636.9	1773.8	1926.2	2059.4
15°	1348.2	1353.1	1337.0	1336.1	1364.6	1377.6	1465.8	1591.5	1747.0	1932.9	2096.4
17.5°	1427.9	1428.8	1386.5	1359.7	1377.1	1383.8	1449.8	1565.6	1731.4	1948.0	2142.8
20°	1540.2	1538.0	1463.1	1418.6	1427.9	1429.7	1472.5	1566.1	1730.1	1974.3	2202.9
22.5°	1689.1	1672.6	1571.9	1511.3	1509.0	1506.4	1530.9	1599.1	1749.7	2017.1	2274.7
25°	1883.4	1867.8	1729.2	1646.3	1628.5	1621.8	1625.4	1669.5	1788.5	2063.0	2354.9
27.5°	2099.5	2072.4	1938.7	1821.5	1784.5	1775.1	1753.7	1768.9	1830.8	2107.1	2450.3
30°	2280.5	2265.8	2149.0	2010.0	1966.3	1952.9	1896.8	1880.3	1891.9	2167.3	2570.6
32.5°	2381.7	2371.9	2301.0	2188.7	2148.1	2129.4	2050.1	2017.1	1989.9	2262.2	2733.7
35°	2504.2	2498.0	2455.2	2373.6	2313.5	2293.9	2232.4	2198.0	2128.1	2392.8	2944.5
37.5°	2660.2	2653.5	2654.4	2588.4	2516.7	2498.4	2457.9	2421.8	2307.2	2564.4	3173.6
40°	2836.7	2823.8	2818.9	2815.7	2770.3	2760.0	2738.6	2689.6	2531.8	2769.4	3399.6
42.5°	3102.3	3056.4	2958.4	2995.3	3040.4	3035.0	3052.4	2982.0	2781.4	3011.8	3620.2
45°	3358.6	3283.2	3113.9	3121.9	3220.4	3250.3	3380.4	3330.5	3051.9	3277.5	3848.4
47.5°	3475.3	3418.3	3274.3	3274.8	3372.4	3434.3	3719.6	3683.9	3336.3	3579.2	4126.9
50°	3605.9	3548.9	3419.6	3468.2	3553.3	3619.3	4047.1	4028.9	3606.8	3909.4	4460.7
52.5°	3748.5	3651.8	3569.8	3656.7	3776.2	3852.8	4375.1	4325.2	3855.0	4241.9	4844.4
55°	3750.3	3724.0	3786.4	3850.1	4028.9	4122.9	4718.7	4586.8	4057.4	4568.6	5156.8
57.5°	3963.8	3921.0	4053.4	4082.8	4316.3	4422.4	5060.6	4814.6	4263.3	4819.0	5325.3
60°	4246.3	4209.8	4318.1	4395.6	4672.0	4813.7	5425.6	5048.5	4425.1	5008.0	5317.3
62.5°	4734.3	4692.9	4691.6	4800.3	5172.4	5337.3	5835.2	5278.1	4489.2	5045.4	5090.4
65°	5448.8	5382.8	5258.5	5310.2	5863.7	6028.1	6292.9	5444.3	4404.6	4844.9	4506.2
67.5°	6144.0	6141.8	5988.9	6095.0	6776.4	6908.3	6814.3	5460.8	4140.3	4146.5	3469.5
70°	6837.0	6845.9	6820.1	7189.1	8009.6	8146.8	7369.6	5239.3	3546.2	2994.5	2078.6
72.5°	7386.1	7383.9	7514.0	8465.5	9610.0	9579.2	7837.5	4568.1	2546.1	1616.4	993.4
75°	7030.4	6952.9	7340.6	9097.5	10542.8	10392.6	7439.6	3186.5	1321.4	735.8	534.8
77.5°	4585.5	4659.0	5228.2	7515.3	9221.8	9039.1	5458.1	1486.8	622.6	482.7	387.7
80°	1660.6	1738.1	2448.1	4257.0	6353.5	6323.6	2687.8	611.0	421.2	364.6	282.6
82.5°	571.3	599.9	965.8	1890.5	3587.2	3720.9	1011.2	347.2	306.2	258.5	193.4
85°	224.2	256.7	441.7	909.6	1809.4	1822.8	409.6	207.7	213.0	169.4	106.1
87.5°	85.1	103.4	211.2	422.5	826.3	759.0	146.6	98.9	121.2	100.7	50.4
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°	2016.7	2016.7	2016.7	2016.7	2016.7	2016.7	2016.7	2016.7	2016.7	2016.7	2016.7
2.5°	2019.8	2029.1	2048.7	2062.1	2076.4	2080.4	2082.2	2085.7	2089.3	2088.0	2088.4
5°	2032.3	2050.5	2082.2	2095.5	2101.8	2094.6	2080.8	2069.7	2061.7	2057.2	2055.9
7.5°	2052.8	2078.6	2112.5	2110.2	2096.0	2064.3	2028.7	2001.9	1979.7	1971.6	1967.2
10°	2079.9	2110.2	2133.9	2108.5	2067.0	2012.2	1958.7	1917.3	1883.8	1870.9	1868.7
12.5°	2114.7	2145.5	2149.9	2096.0	2027.4	1952.5	1879.8	1825.0	1775.1	1759.1	1755.5
15°	2159.7	2188.7	2161.1	2074.1	1978.3	1877.6	1783.6	1709.1	1656.6	1636.9	1629.8
17.5°	2207.0	2234.6	2163.3	2038.0	1914.2	1788.9	1670.8	1594.6	1534.4	1511.7	1509.0
20°	2263.6	2276.0	2153.9	1986.3	1825.9	1673.9	1549.6	1477.8	1445.8	1429.7	1427.9
22.5°	2333.5	2320.2	2132.5	1916.4	1714.0	1541.1	1440.0	1406.5	1398.5	1394.9	1396.3
25°	2407.5	2366.5	2100.9	1825.0	1572.8	1408.3	1359.7	1369.1	1379.8	1378.5	1378.5
27.5°	2489.1	2413.7	2052.3	1703.8	1416.3	1299.6	1305.4	1339.7	1355.7	1355.3	1354.8
30°	2593.8	2467.2	1990.4	1558.1	1270.2	1222.9	1258.1	1300.0	1321.9	1321.0	1321.4
32.5°	2722.6	2526.1	1906.1	1395.4	1164.5	1166.3	1206.9	1248.3	1273.7	1271.5	1271.9
35°	2873.2	2592.0	1792.0	1235.0	1094.6	1121.3	1153.4	1182.4	1206.4	1203.3	1200.2
37.5°	3037.2	2656.6	1640.5	1091.4	1037.5	1079.4	1106.2	1111.1	1122.2	1114.2	1108.4
40°	3193.2	2706.1	1445.3	973.8	980.0	1043.8	1061.1	1041.5	1021.5	1018.8	1010.8
42.5°	3329.2	2722.6	1247.9	879.8	919.4	1006.3	1017.0	976.0	939.9	923.0	915.9
45°	3472.7	2728.4	1063.8	800.9	861.0	972.9	984.5	929.7	878.9	842.3	830.3
47.5°	3660.3	2770.3	920.8	742.5	816.5	950.6	967.1	892.7	826.7	774.6	763.4
50°	3905.8	2853.2	804.4	697.9	787.5	935.9	954.6	856.6	783.9	721.1	710.0
52.5°	4178.6	2929.4	710.4	661.8	759.4	910.1	938.6	830.7	743.8	671.6	659.6
55°	4369.3	2871.0	634.6	624.4	722.9	873.1	916.3	808.9	686.3	623.5	612.8
57.5°	4405.9	2671.3	577.1	585.6	678.8	826.7	882.0	760.3	655.1	602.5	591.4
60°	4306.1	2393.2	534.4	550.0	631.5	768.3	817.8	726.0	625.3	580.3	570.9
62.5°	4055.1	2108.5	502.7	517.9	587.4	709.1	777.7	689.9	595.0	554.9	545.5
65°	3548.4	1770.2	472.4	489.3	546.4	657.8	741.6	656.5	565.1	534.4	525.4
67.5°	2678.5	1325.9	443.9	459.0	509.8	613.2	702.4	623.5	536.1	516.5	505.8
70°	1577.2	830.3	411.4	427.4	471.5	566.9	660.5	587.4	500.0	491.1	477.3
72.5°	734.0	499.6	374.4	390.0	423.4	504.9	606.6	540.2	457.3	437.6	418.9
75°	438.1	365.4	330.7	344.5	368.1	439.0	538.8	492.0	416.7	390.9	371.2
77.5°	327.6	279.4	282.6	297.3	316.4	384.2	477.3	454.1	385.5	365.4	352.1
80°	235.8	212.1	230.4	246.5	266.5	349.4	457.3	419.8	348.5	321.8	309.3
82.5°	157.3	152.4	173.4	189.9	209.5	305.7	429.6	367.7	297.7	263.8	236.2
85°	86.9	91.8	116.8	123.9	140.8	215.3	352.1	295.5	224.2	180.5	172.5
87.5°	36.1	42.3	62.8	60.6	74.9	128.4	231.7	178.3	142.6	106.5	82.9
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)