

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: P318007

Luminaire Tested: **GAN-SA3C-727-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318007
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3C-727-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17722 lumens
Efficiency: N/A
Efficacy: 106.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

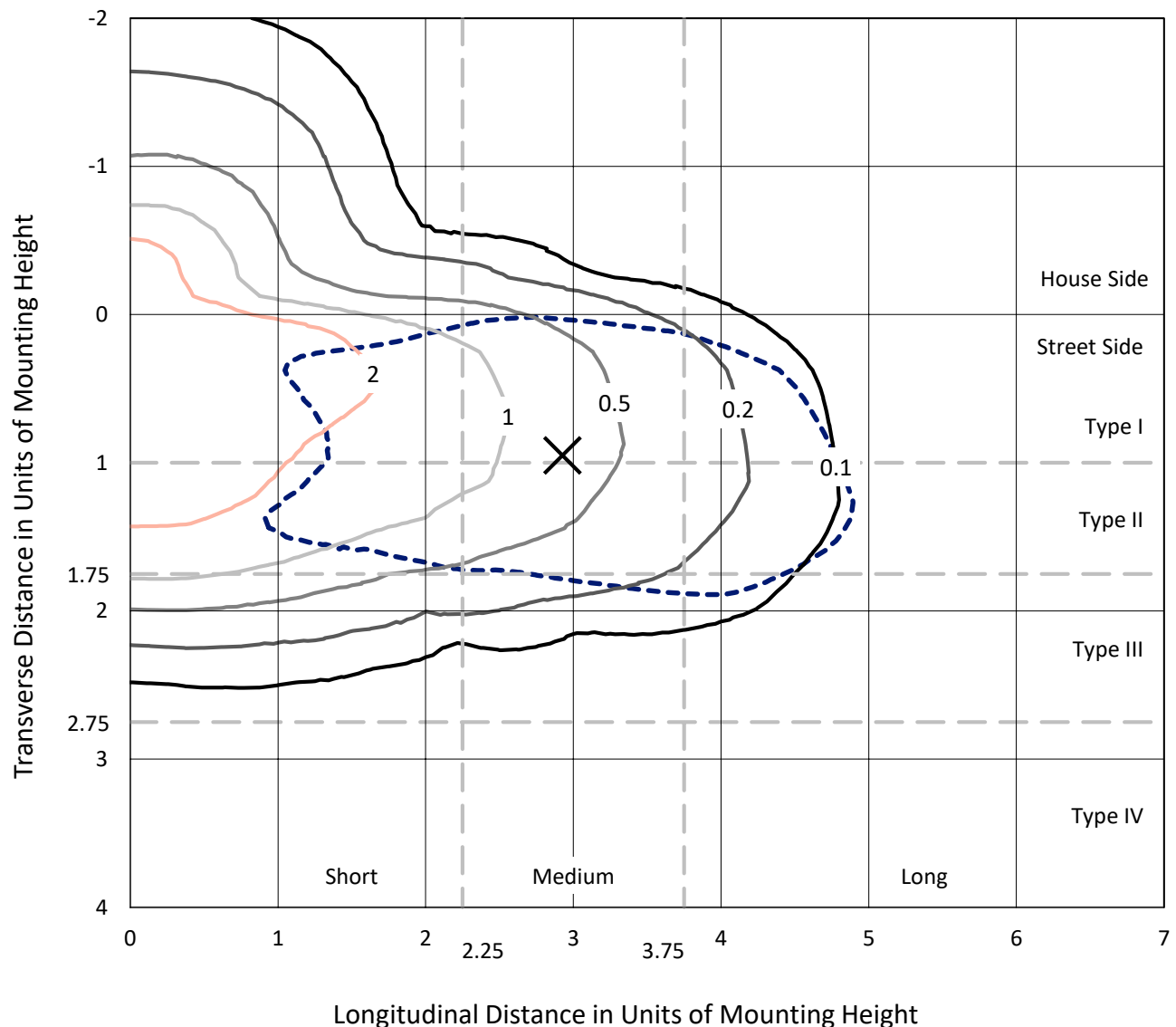
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

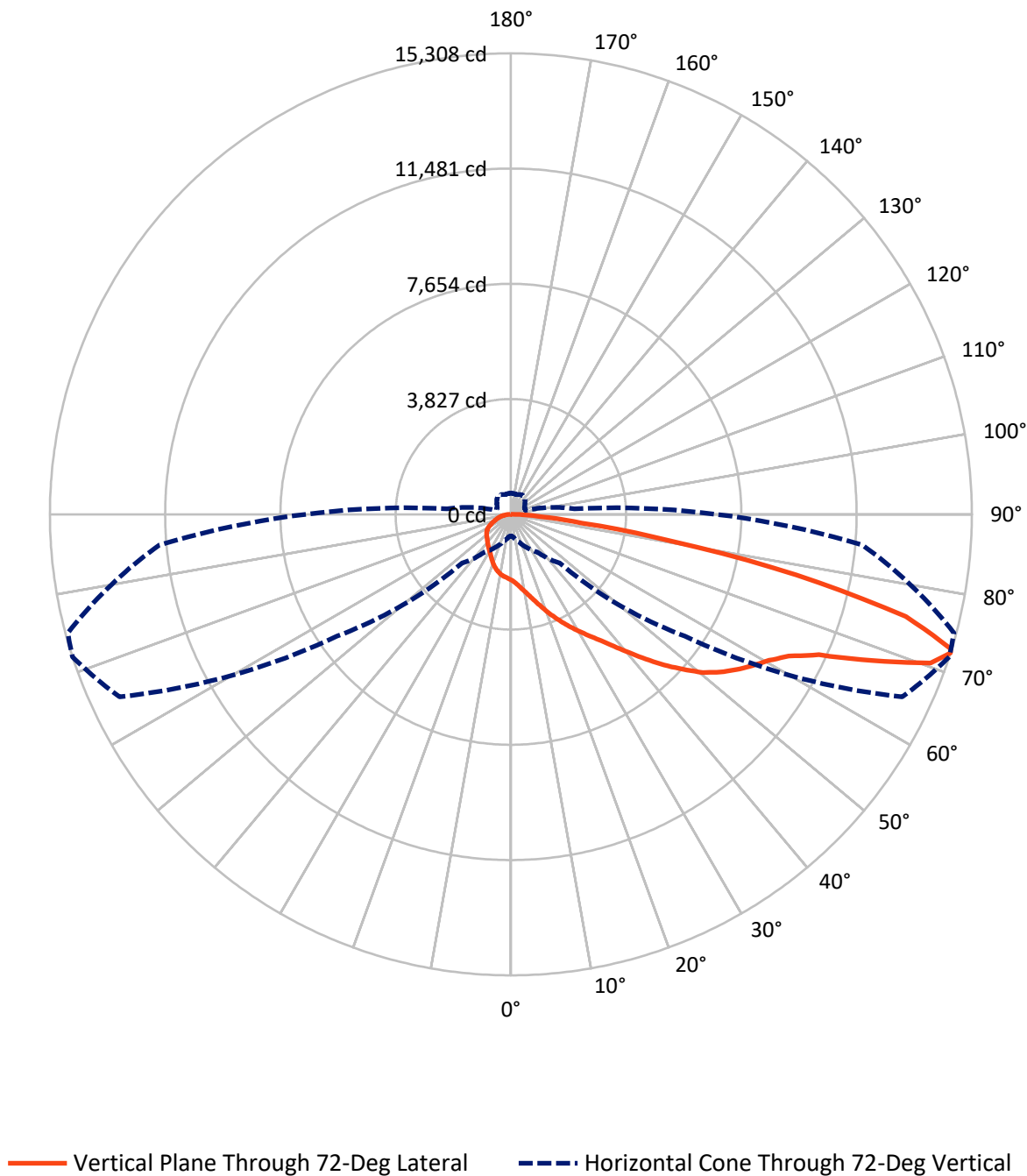
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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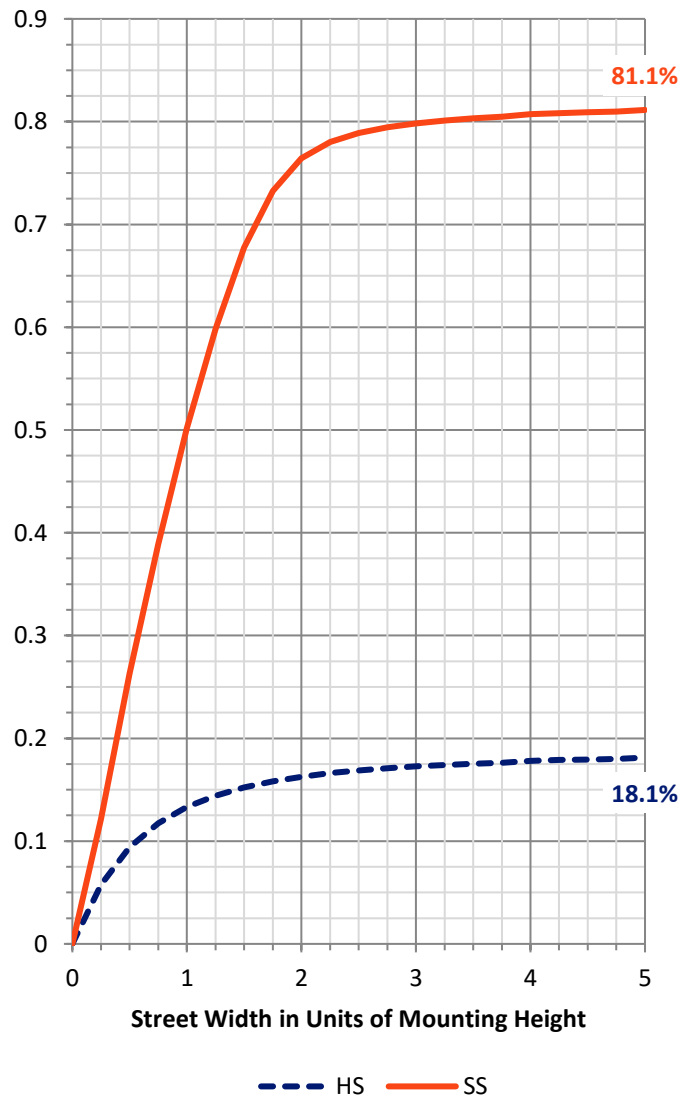
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3287.6	0.0	3287.6
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	14434.5	0.0	14434.5
	% Fixture	81.4	0.0	81.4
Total	Lumens	17722.0	0.0	17722.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.5	1.2
10°-20°	706.0	4.0
20°-30°	1237.1	7.0
30°-40°	1834.2	10.4
40°-50°	2682.7	15.1
50°-60°	3691.4	20.8
60°-70°	4109.6	23.2
70°-80°	2784.7	15.7
80°-90°	457.7	2.6
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°	17722.0	100.0
0°-180°	17722.0	100.0

Coefficient of Utilization



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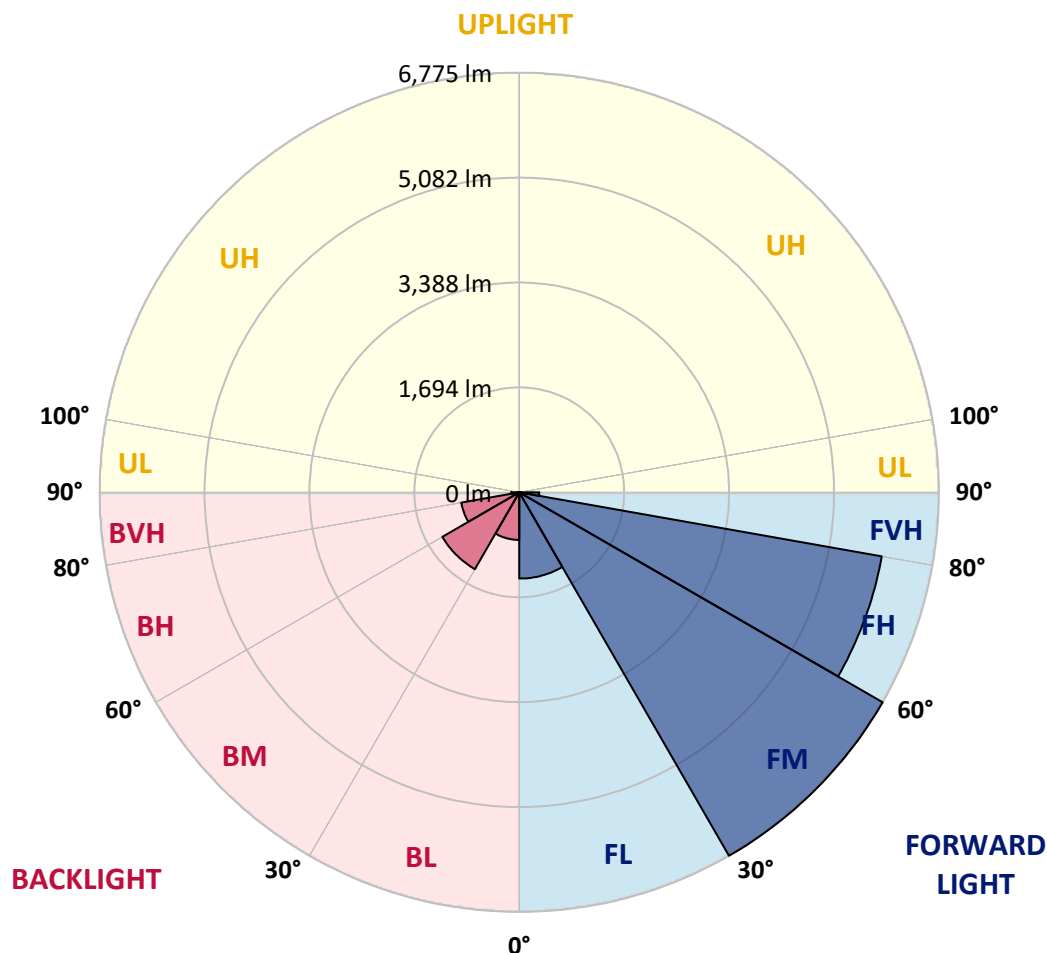
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1393.1	7.9			
FM	(30°-60°)	6775.3	38.2			
FH	(60°-80°)	5943.2	33.5			G3/7500
FVH	(80°-90°)	322.8	1.8			G3/500
BL	(0°-30°)	768.5	4.3	B2/1000		
BM	(30°-60°)	1433.1	8.1	B2/2500		
BH	(60°-80°)	951.1	5.4	B2/1000		G2/1000
BVH	(80°-90°)	134.8	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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	2180.3	2180.3	2180.3	2180.3	2180.3	2180.3	2180.3	2180.3	2180.3	2180.3	2180.3
2.5°	2408.5	2404.8	2392.0	2392.0	2367.6	2346.9	2307.8	2281.6	2250.4	2239.5	2202.8
5°	2641.6	2642.8	2626.9	2616.0	2580.0	2536.0	2469.5	2409.1	2348.7	2324.3	2249.2
7.5°	2837.5	2835.0	2830.7	2821.6	2788.0	2742.9	2653.2	2563.5	2474.4	2437.8	2308.4
10°	2963.2	2968.7	2972.3	2976.6	2962.6	2930.2	2845.4	2736.2	2619.6	2569.6	2379.2
12.5°	3026.6	3036.4	3053.5	3082.8	3106.0	3102.3	3040.7	2924.7	2786.2	2723.4	2467.7
15°	3063.8	3076.7	3103.5	3156.0	3221.3	3258.5	3242.0	3137.1	2982.7	2905.2	2575.7
17.5°	3087.0	3097.4	3138.9	3209.1	3306.1	3405.0	3448.3	3360.4	3204.8	3116.3	2699.6
20°	3102.9	3110.8	3162.7	3245.1	3370.8	3528.2	3649.0	3627.1	3449.5	3334.8	2828.9
22.5°	3138.3	3145.0	3194.4	3277.4	3416.5	3619.7	3842.5	3875.4	3707.6	3577.6	2967.4
25°	3237.1	3237.1	3278.6	3336.6	3467.2	3699.1	4006.0	4151.8	3971.2	3819.9	3095.6
27.5°	3425.7	3423.9	3439.1	3459.3	3558.1	3779.6	4151.8	4395.9	4244.6	4079.2	3220.1
30°	3649.0	3661.2	3663.1	3653.3	3699.7	3880.3	4286.7	4653.4	4519.8	4341.6	3347.6
32.5°	3936.4	3944.4	3935.2	3902.9	3896.2	4023.1	4419.1	4923.1	4817.6	4615.6	3464.1
35°	4301.3	4286.1	4257.4	4191.5	4128.7	4214.1	4570.4	5192.9	5152.0	4946.9	3624.6
37.5°	4692.5	4693.1	4657.7	4508.2	4421.6	4458.2	4779.1	5498.6	5556.5	5341.1	3830.3
40°	5006.1	5022.6	5044.6	4848.1	4735.8	4786.5	5044.6	5853.1	6034.9	5808.6	4098.1
42.5°	5225.2	5244.1	5306.4	5183.1	5066.5	5160.5	5357.0	6231.4	6571.9	6348.0	4411.8
45°	5457.1	5467.5	5511.4	5458.3	5383.9	5595.6	5709.1	6623.2	7140.0	6922.8	4762.7
47.5°	5701.2	5712.1	5757.3	5721.9	5682.9	6002.0	6076.4	6992.4	7684.3	7554.4	5137.3
50°	6002.6	6009.9	6052.6	5988.6	6000.8	6308.3	6404.7	7331.0	8254.9	8121.9	5513.2
52.5°	6413.9	6415.7	6474.9	6416.9	6359.6	6532.9	6687.3	7650.2	8702.2	8639.3	5889.1
55°	6736.1	6755.6	6949.6	6937.4	6904.5	6736.7	6923.4	7954.0	9101.2	9131.1	6288.2
57.5°	6530.4	6606.7	6999.7	7276.7	7546.4	7243.8	7242.5	8296.4	9472.2	9613.8	6726.9
60°	5719.5	5823.2	6402.3	7016.8	7860.7	8126.1	7905.2	8714.4	9846.9	10092.2	7276.7
62.5°	4084.7	4255.6	5040.3	6021.5	7429.9	8710.7	9253.8	9377.7	10356.4	10646.3	7991.3
65°	2064.9	2194.3	2852.1	4034.1	5936.1	8328.7	10719.5	10829.9	11241.8	11499.3	9091.5
67.5°	1254.6	1303.4	1624.4	2243.7	3639.3	6487.7	11197.9	13250.6	12955.3	13092.0	10660.3
70°	924.5	960.5	1160.6	1490.1	2093.0	3807.1	9729.7	14978.1	14784.1	14768.8	11819.7
72°	720.0	746.3	923.2	1203.9	1530.4	2284.0	7052.2	14340.5	15307.6	15230.8	11713.5
72.5°	682.8	706.0	867.1	1133.2	1446.2	2070.4	6340.7	13910.3	15269.8	15235.0	11576.2
75°	537.6	554.1	641.9	876.3	1131.9	1174.6	3474.5	10779.9	13546.0	14109.2	10412.0
77.5°	444.8	447.3	493.7	637.7	882.4	830.5	1706.7	7479.3	9699.8	10319.2	7375.6
80°	362.5	365.5	387.5	447.3	667.6	614.5	810.4	4300.7	5430.8	5437.6	3507.5
82.5°	288.6	289.2	313.6	327.1	479.6	439.3	464.4	2019.2	2373.1	2282.8	1260.7
85°	203.2	198.9	306.3	268.5	313.6	281.9	256.3	799.4	981.2	938.5	394.8
87.5°	67.7	70.2	136.1	173.9	183.1	159.9	114.1	306.3	370.4	367.3	125.1
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°	2180.3	2180.3	2180.3	2180.3	2180.3	2180.3	2180.3	2180.3	2180.3	2180.3	2180.3
2.5°	2191.3	2171.7	2143.0	2111.3	2086.3	2060.7	2041.8	2032.0	2021.0	2011.9	2022.8
5°	2214.4	2177.8	2116.8	2057.0	2013.1	1974.0	1945.9	1931.3	1917.9	1908.7	1909.9
7.5°	2252.3	2193.1	2090.6	2003.3	1942.3	1900.2	1871.5	1861.7	1853.2	1850.8	1853.8
10°	2292.5	2205.3	2055.8	1939.8	1870.3	1835.5	1822.7	1829.4	1835.5	1841.0	1847.1
12.5°	2338.3	2216.3	2005.1	1865.4	1806.2	1792.8	1805.6	1834.9	1856.2	1869.1	1877.0
15°	2398.1	2226.0	1946.6	1791.0	1751.3	1766.5	1809.9	1860.5	1897.7	1921.5	1925.2
17.5°	2453.0	2225.4	1871.5	1715.9	1706.7	1751.3	1816.6	1888.0	1938.0	1971.6	1978.3
20°	2509.8	2208.9	1784.2	1642.7	1661.6	1734.8	1819.6	1905.7	1966.1	2005.1	2014.3
22.5°	2562.9	2180.3	1688.4	1576.2	1623.8	1712.9	1808.0	1895.3	1955.7	1987.4	1997.2
25°	2598.9	2130.2	1591.4	1520.0	1590.2	1686.0	1770.2	1840.4	1885.5	1901.4	1903.8
27.5°	2617.2	2064.9	1499.9	1471.2	1555.4	1642.1	1700.0	1734.8	1747.6	1746.4	1744.0
30°	2619.6	1978.9	1421.2	1431.5	1515.1	1577.4	1604.8	1598.1	1581.7	1553.6	1556.0
32.5°	2611.7	1881.9	1355.3	1393.7	1463.9	1498.7	1499.9	1467.5	1423.6	1379.1	1366.9
35°	2614.1	1786.7	1297.3	1351.0	1401.6	1416.9	1402.9	1355.3	1295.5	1238.1	1225.9
37.5°	2641.0	1703.7	1247.3	1301.6	1332.7	1336.4	1316.2	1266.2	1222.2	1166.1	1161.2
40°	2705.0	1644.5	1199.7	1246.0	1263.7	1265.6	1236.9	1201.5	1205.2	1175.3	1174.6
42.5°	2820.4	1618.9	1157.6	1188.1	1199.1	1202.7	1180.7	1158.2	1189.9	1170.4	1163.7
45°	2969.3	1625.0	1122.2	1131.3	1151.5	1168.5	1155.1	1127.7	1139.9	1055.0	1027.0
47.5°	3141.3	1664.0	1094.1	1082.5	1117.3	1149.6	1128.9	1087.4	1044.1	959.9	944.0
50°	3342.7	1724.4	1068.5	1034.3	1080.1	1124.0	1103.3	1044.1	978.8	937.9	932.4
52.5°	3552.6	1798.3	1042.8	981.2	1033.1	1104.5	1094.1	1034.3	953.8	913.5	906.2
55°	3790.6	1872.7	1010.5	919.6	982.4	1095.3	1089.8	998.9	934.8	912.3	906.8
57.5°	4086.6	1957.5	967.8	855.5	934.8	1062.4	1045.3	977.6	915.3	898.2	896.4
60°	4472.2	2082.6	906.2	787.2	876.9	1011.7	1008.1	946.4	884.2	872.0	869.5
62.5°	5050.7	2289.5	821.3	718.8	812.2	925.7	959.2	904.3	851.2	850.6	851.8
65°	5947.7	2600.7	729.2	659.0	746.9	853.1	902.5	861.0	817.7	829.9	831.7
67.5°	6987.5	2858.8	638.9	600.4	680.4	784.1	851.2	817.7	773.1	804.9	805.5
70°	7333.5	2628.2	559.6	542.5	611.4	717.6	795.7	770.1	724.9	756.7	753.6
72°	6824.6	2121.7	508.3	498.5	559.6	662.7	746.3	725.5	681.0	702.3	694.4
72.5°	6664.1	2022.8	495.5	487.6	545.5	648.6	733.5	714.6	670.0	688.3	681.0
75°	5944.6	1756.8	425.9	427.8	476.0	580.3	661.5	655.4	609.6	611.4	609.0
77.5°	4311.7	1288.1	358.8	371.0	405.2	510.1	588.8	585.2	535.2	526.0	524.2
80°	2000.9	657.2	292.3	297.8	333.2	426.5	502.2	497.3	457.0	445.5	438.7
82.5°	685.3	312.4	219.7	223.3	258.1	343.5	435.7	432.6	399.1	376.5	362.5
85°	244.7	155.6	153.8	150.1	184.3	270.3	379.5	363.1	313.6	267.3	266.1
87.5°	79.3	66.5	79.3	78.7	107.4	183.1	275.8	234.9	227.6	189.2	185.5
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)