

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: P192707

Luminaire Tested: **GAN-AF-09-LED-U-AFL-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192707
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-09-LED-U-AFL-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42659.2 lumens
Efficiency: N/A
Efficacy: 114.1 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 374
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: 28.75 FT



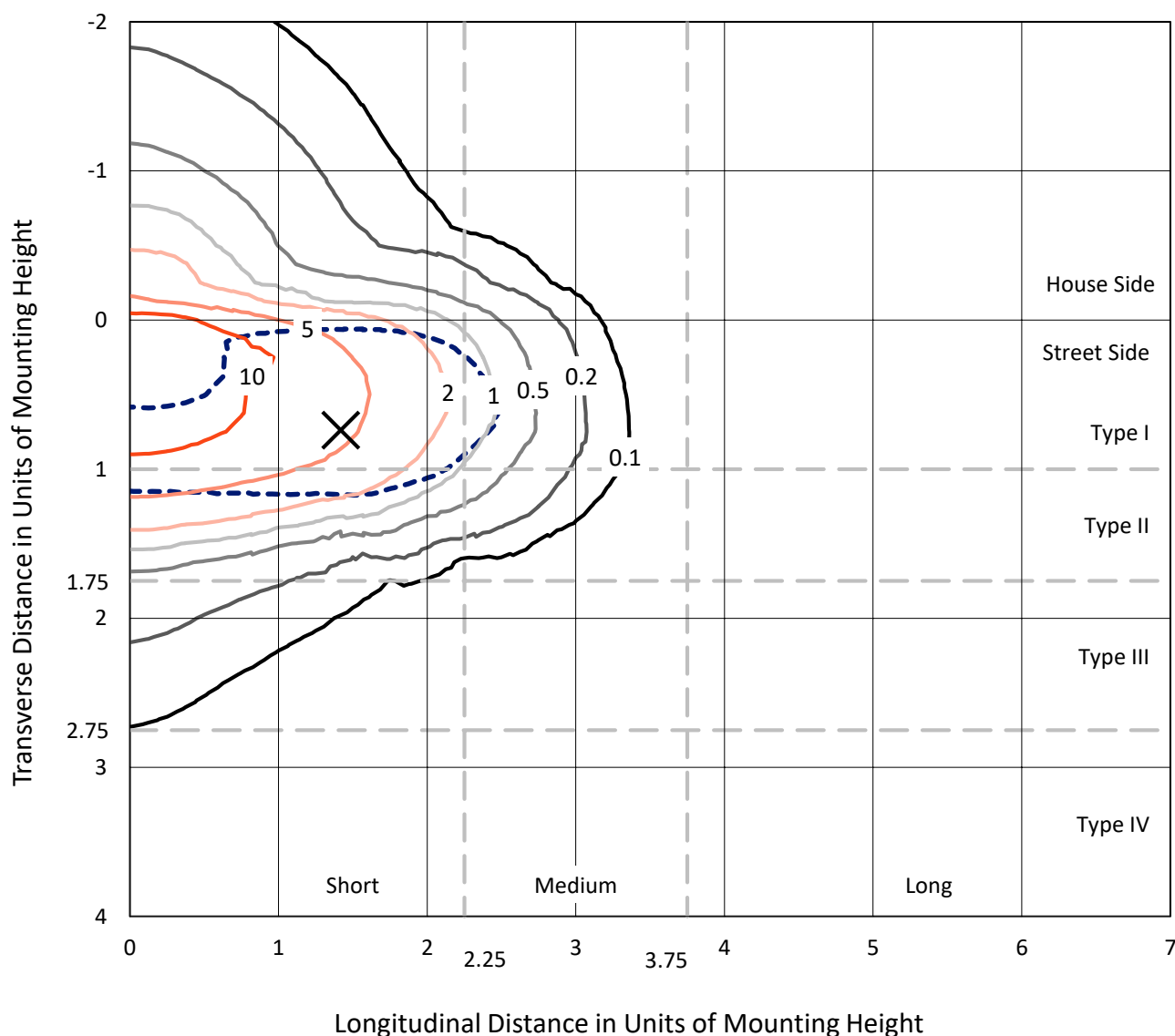
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

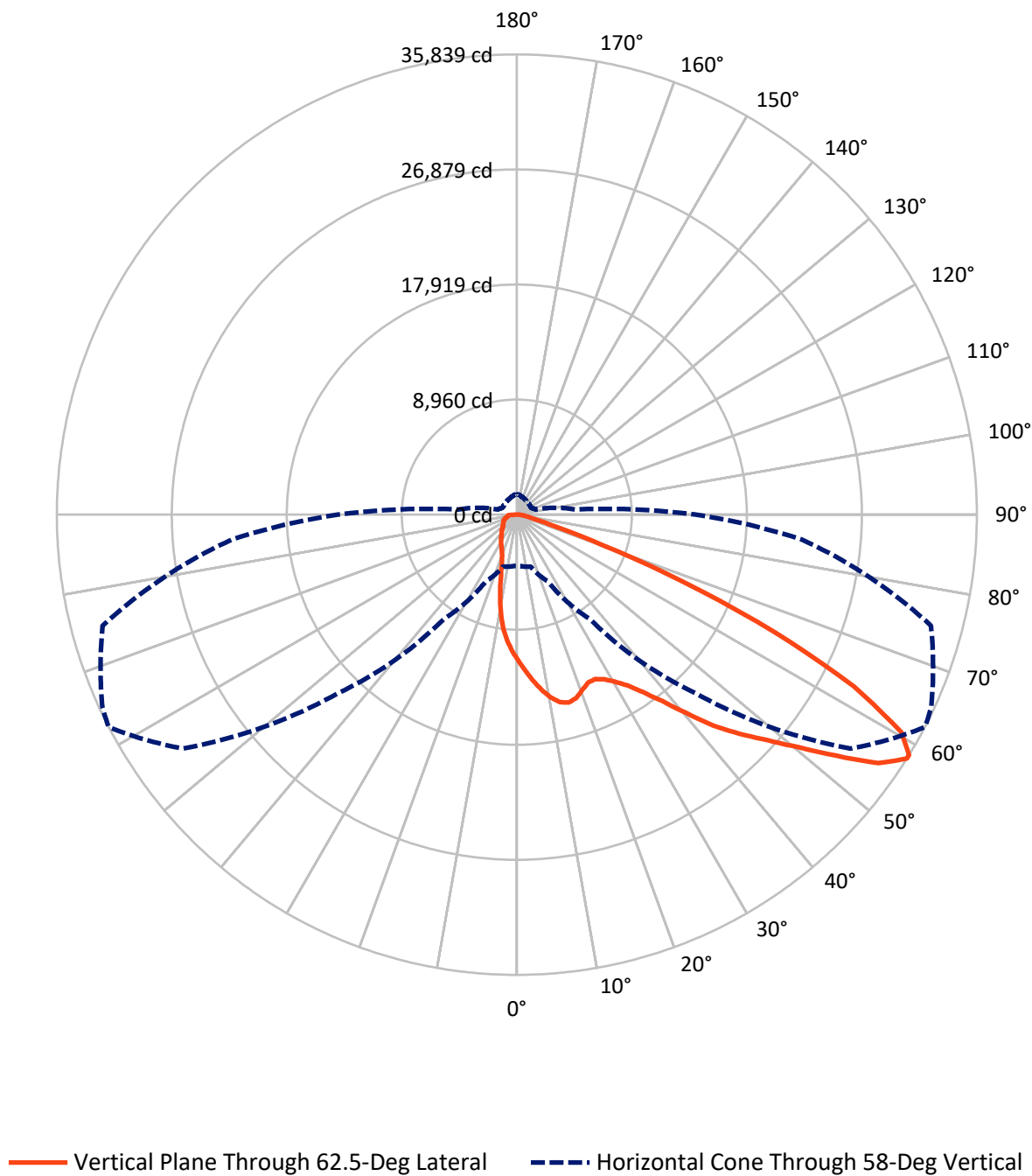


Based on 30 foot mounting height. Maximum calculated value = 15.3 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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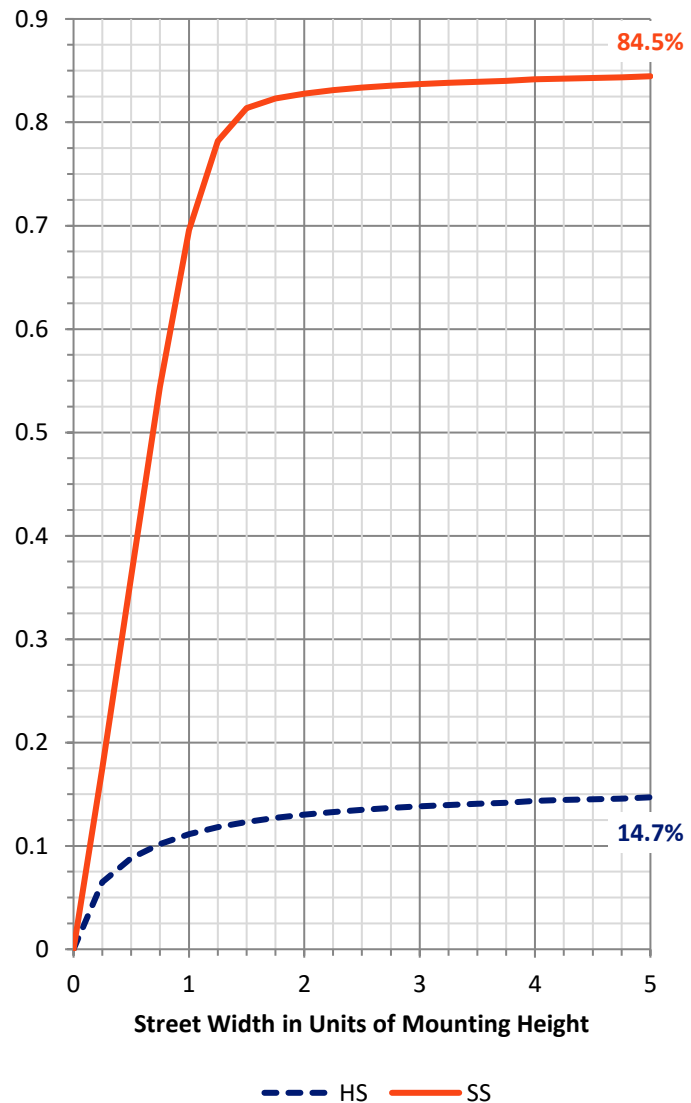
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6505.7	0.0	6505.7
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	36153.5	0.0	36153.5
	% Fixture	84.7	0.0	84.7
Total	Lumens	42659.2	0.0	42659.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1013.4	2.4
10°-20°	2590.5	6.1
20°-30°	4187.6	9.8
30°-40°	6647.9	15.6
40°-50°	9727.2	22.8
50°-60°	10173.8	23.8
60°-70°	6010.7	14.1
70°-80°	1693.2	4.0
80°-90°	614.7	1.4
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°	42659.2	100.0
0°-180°	42659.2	100.0

Coefficient of Utilization



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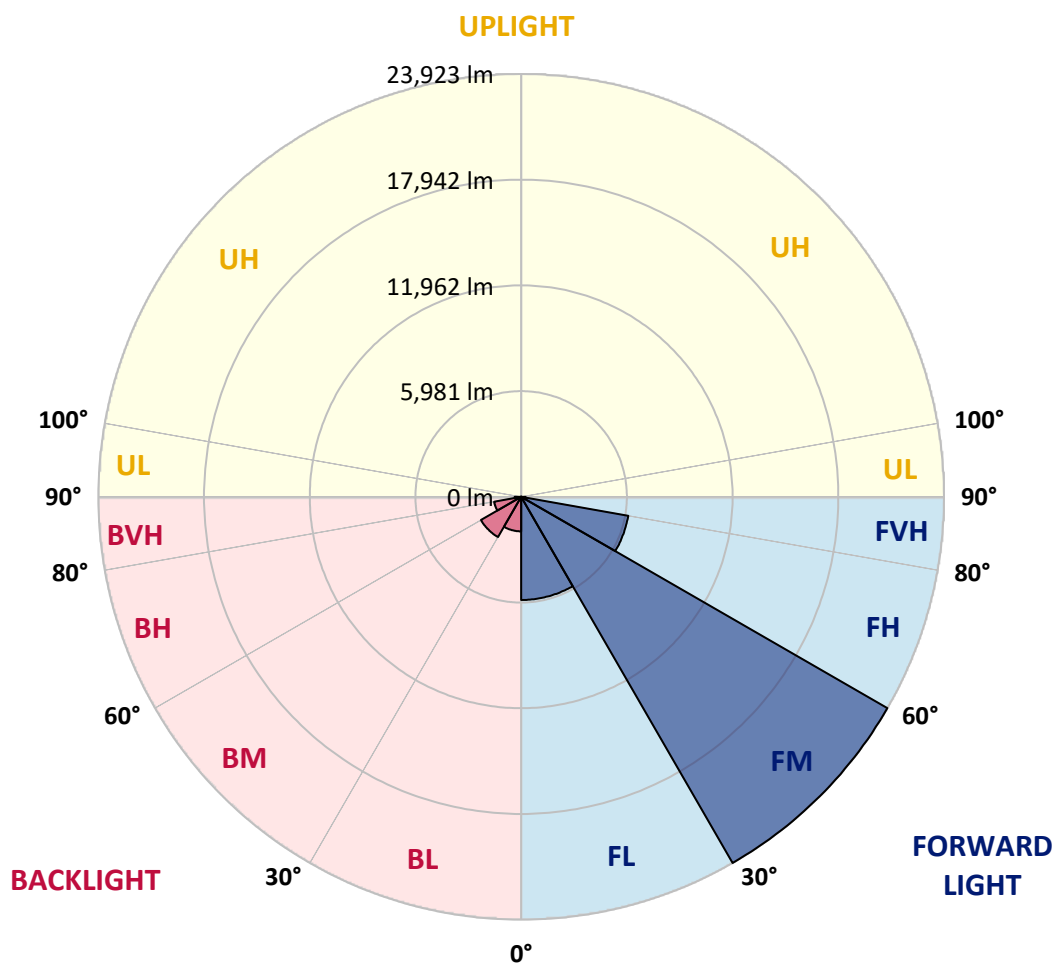
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5836.3	13.7			
FM	(30°-60°)	23923.0	56.1			
FH	(60°-80°)	6151.6	14.4			G3/7500
FVH	(80°-90°)	242.5	0.6			G3/500
BL	(0°-30°)	1955.3	4.6	B3/2500		
BM	(30°-60°)	2625.9	6.2	B3/5000		
BH	(60°-80°)	1552.3	3.6	B3/2500		G3/2500
BVH	(80°-90°)	372.2	0.9			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	11331.5	11331.5	11331.5	11331.5	11331.5	11331.5	11331.5	11331.5	11331.5	11331.5	11331.5
2.5°	12948.7	12844.2	12777.9	12719.6	12643.3	12480.5	12261.6	12123.0	12052.7	11813.6	11530.4
5°	14218.1	14125.8	14057.6	13979.0	13842.5	13587.4	13233.8	12952.6	12814.0	12335.9	11769.4
7.5°	13920.8	13959.1	14077.5	14284.4	14461.2	14427.0	14111.7	13754.1	13571.3	12906.5	12046.7
10°	12129.0	12195.3	12400.3	12884.3	13667.8	14471.3	14716.3	14469.3	14284.4	13470.9	12331.9
12.5°	11769.4	11767.4	11783.5	11912.1	12378.1	13509.1	14736.5	14985.6	14875.0	14009.2	12623.2
15°	11916.2	11920.0	11908.0	11962.2	12106.9	12554.9	14121.8	15184.5	15262.8	14551.5	12924.5
17.5°	12301.8	12291.7	12245.6	12245.6	12297.7	12472.5	13398.6	14999.5	15361.2	15031.7	13189.7
20°	12948.7	12902.4	12779.8	12667.4	12611.1	12705.5	13101.3	14573.8	15190.5	15451.6	13408.7
22.5°	13732.0	13695.8	13497.1	13256.0	13061.1	13059.1	13253.9	14202.1	14895.1	15847.3	13593.4
25°	14744.4	14686.2	14391.0	14005.2	13663.8	13533.2	13587.4	14184.0	14734.3	16277.1	13758.2
27.5°	15933.8	15827.2	15477.6	14921.2	14419.1	14155.8	14077.5	14511.5	14881.1	16809.5	13987.2
30°	17375.9	17253.4	16805.5	16080.3	15371.2	14939.3	14772.6	15092.0	15367.2	17458.3	14354.8
32.5°	19017.1	18840.3	18322.1	17522.6	16590.6	15931.6	15660.4	15859.3	16078.3	18239.7	14814.8
35°	21285.1	21074.2	20324.9	19222.1	18169.5	17263.5	16829.5	16974.2	17187.1	19404.9	15479.7
37.5°	22831.8	22737.4	22239.2	21202.8	20057.7	19015.2	18344.2	18428.5	18549.1	20861.2	16331.4
40°	22817.8	22856.0	22866.0	22876.0	22096.6	21098.3	20377.1	20288.7	20264.7	22460.2	17299.7
42.5°	21674.8	21831.4	22337.6	23364.1	23838.1	23380.2	22719.4	22464.2	22337.6	24344.5	18326.2
45°	19925.1	20009.5	20957.7	22962.4	24730.2	25640.1	25139.9	24336.4	24107.4	26076.1	19177.8
47.5°	19023.1	19115.6	19712.2	21897.7	24720.1	27466.1	27755.3	26224.6	25814.9	27582.6	19913.0
50°	16875.7	17068.6	17819.9	20045.7	23818.2	28305.8	30489.4	28474.5	27626.7	29049.0	20650.3
52.5°	12932.6	13229.8	14071.5	17000.3	21530.1	27889.9	32676.8	31202.5	30005.3	30567.7	21283.0
55°	8157.7	8378.6	9085.7	12006.5	17223.3	25726.5	33506.5	34153.4	33088.6	32006.0	21831.4
57.5°	4435.4	4533.8	4799.0	6629.0	11203.0	20943.6	32297.2	35832.6	35390.7	33227.3	22245.3
58°	3969.4	4035.6	4200.4	5745.1	9935.5	19635.8	31760.9	35838.6	35617.8	33406.0	22277.4
60°	2944.9	2910.7	2764.0	3278.4	5530.1	13565.3	28518.8	34404.4	35053.2	33625.0	22120.7
62.5°	2587.3	2505.0	2205.6	2171.5	2689.8	6249.3	21821.4	29470.8	31003.5	32375.6	21168.6
65°	2430.6	2342.2	1956.5	1832.1	1940.5	2643.5	12854.3	22102.6	24025.0	28587.0	18733.9
67.5°	2314.1	2199.6	1797.9	1627.1	1635.2	1747.6	5152.5	13920.8	16084.3	21704.9	14571.7
70°	2201.6	2077.1	1663.3	1466.4	1420.3	1382.0	2048.9	6968.4	8931.1	13710.0	9290.7
72.5°	2081.1	1958.6	1544.7	1339.8	1249.5	1122.8	1337.9	2850.5	3981.4	6486.4	4214.4
75°	1906.3	1795.9	1426.3	1227.4	1098.8	930.1	1010.4	1488.5	1785.9	2583.3	2030.9
77.5°	1691.5	1600.9	1293.6	1134.9	974.3	755.3	777.4	1032.5	1145.0	1478.5	1207.4
80°	1215.3	1247.4	1151.0	1020.5	867.8	612.7	596.5	753.4	813.6	950.1	785.5
82.5°	853.8	871.8	952.2	833.6	717.2	482.2	439.9	530.4	566.5	624.8	423.8
85°	588.6	568.4	652.9	580.5	518.2	321.4	301.3	359.6	381.7	387.7	218.9
87.5°	353.6	353.6	377.6	311.4	279.2	166.7	162.7	204.9	218.9	208.9	120.5
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°	11331.5	11331.5	11331.5	11331.5	11331.5	11331.5	11331.5	11331.5	11331.5	11331.5	11331.5
2.5°	11361.7	11219.1	10915.8	10672.7	10365.3	10046.0	9867.1	9676.3	9545.8	9451.4	9602.0
5°	11448.0	11156.8	10530.1	9935.5	9278.6	8595.5	8077.3	7595.1	7259.7	7050.8	7247.7
7.5°	11584.6	11136.7	10138.2	9121.8	7942.7	6805.8	5789.3	5152.5	4780.8	4598.0	4712.6
10°	11741.3	11104.6	9678.3	8019.1	6331.7	4899.4	4140.1	3883.0	3798.6	3764.4	3780.5
12.5°	11871.9	11036.3	9113.9	6685.2	4754.8	3868.9	3650.0	3643.9	3662.1	3665.9	3672.1
15°	11964.3	10935.8	8276.2	5295.1	3802.7	3525.4	3513.3	3549.5	3583.7	3597.7	3605.8
17.5°	12026.6	10728.9	7330.1	4186.3	3406.9	3358.7	3386.8	3433.0	3469.2	3479.3	3487.2
20°	12020.6	10425.6	6203.0	3491.3	3192.0	3192.0	3240.2	3276.3	3278.4	3266.3	3272.4
22.5°	11958.3	10009.8	5110.4	3121.6	3001.2	3035.2	3083.6	3049.3	2908.7	2816.2	2822.3
25°	11853.9	9513.6	4174.2	2886.6	2824.4	2884.7	2870.6	2613.4	2412.6	2322.2	2322.2
27.5°	11761.4	8927.0	3455.1	2681.8	2647.6	2721.8	2472.9	2239.9	2155.4	2113.3	2099.2
30°	11695.1	8294.3	2975.0	2484.9	2480.8	2426.6	2145.5	2081.1	2067.0	2032.9	2020.9
32.5°	11711.2	7653.5	2667.7	2312.2	2326.1	2077.1	1988.7	2002.7	1990.7	1954.5	1938.5
35°	11843.8	7044.8	2466.7	2155.4	2113.3	1876.2	1896.3	1922.4	1918.4	1868.2	1852.1
37.5°	12080.8	6468.2	2334.3	2024.9	1844.1	1775.8	1807.9	1848.1	1838.1	1803.9	1791.9
40°	12329.9	5925.9	2225.7	1922.4	1685.4	1707.5	1735.6	1757.7	1767.7	1777.7	1769.8
42.5°	12573.0	5359.3	2093.2	1818.0	1619.1	1643.2	1655.3	1677.3	1731.5	1769.8	1767.7
45°	12717.6	4827.1	1956.5	1669.3	1566.9	1580.9	1572.9	1617.0	1683.3	1745.6	1747.6
47.5°	12878.3	4413.3	1848.1	1532.7	1516.6	1526.7	1502.6	1546.8	1606.9	1683.3	1691.5
50°	13073.2	4166.2	1761.7	1424.2	1448.3	1448.3	1442.3	1482.4	1566.9	1655.3	1671.3
52.5°	13294.1	4118.0	1689.3	1345.8	1380.1	1378.0	1384.1	1444.3	1536.7	1623.0	1637.1
55°	13563.3	4248.5	1611.0	1287.6	1313.8	1321.8	1341.8	1410.2	1488.5	1587.0	1593.0
57.5°	13876.7	4513.7	1548.7	1241.4	1253.5	1279.7	1311.7	1374.1	1458.4	1566.9	1572.9
58°	13928.9	4570.0	1538.7	1237.4	1241.4	1271.6	1307.8	1368.0	1452.4	1570.8	1576.9
60°	13930.9	4756.8	1516.6	1219.4	1195.2	1245.4	1285.7	1345.8	1442.3	1585.0	1599.0
62.5°	13436.7	4754.8	1500.5	1193.2	1147.0	1209.3	1255.5	1325.8	1432.3	1619.1	1647.2
65°	11831.6	4320.8	1424.2	1153.0	1108.9	1177.2	1229.3	1311.7	1460.4	1767.7	1785.9
67.5°	9254.5	3541.5	1281.6	1096.8	1058.6	1145.0	1213.4	1309.7	1490.6	1801.9	1813.9
70°	6118.7	2649.5	1125.0	1032.5	1006.4	1106.8	1221.3	1378.0	1456.3	1729.6	1697.5
72.5°	3175.8	1860.1	998.4	952.2	946.1	1072.7	1337.9	1370.0	1422.2	1627.1	1587.0
75°	1667.3	1291.7	887.8	863.8	873.8	1064.6	1578.9	1333.8	1378.0	1556.8	1633.1
77.5°	1020.5	1042.6	793.4	783.4	803.5	1040.5	1576.9	1287.6	1313.8	1432.3	1516.6
80°	683.0	845.6	721.1	723.2	737.2	952.2	1416.2	1215.3	1235.4	1353.9	1440.2
82.5°	431.9	500.2	654.9	689.0	671.0	785.5	1203.3	1106.8	1134.9	1548.7	1637.1
85°	218.9	313.3	568.4	662.8	604.6	550.4	976.2	970.2	984.3	1116.8	1167.1
87.5°	100.4	172.7	443.9	578.5	456.0	343.5	709.1	719.2	775.4	793.4	793.4
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)