

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: P193524

Luminaire Tested: **GAN-AF-06-LED-U-AFL-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193524
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-06-LED-U-AFL-8030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32694 lumens
Efficiency: N/A
Efficacy: 85.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 382
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



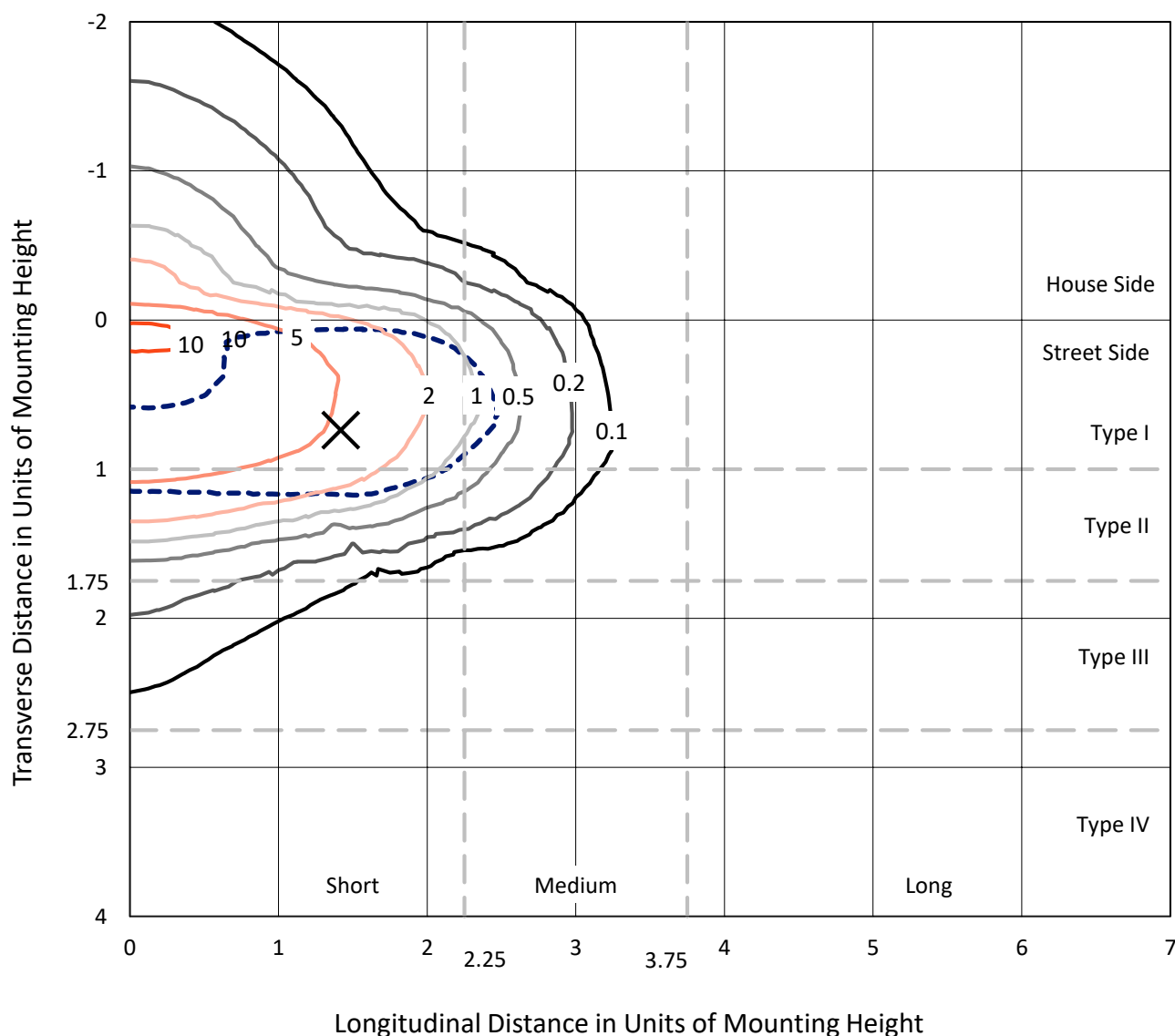
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

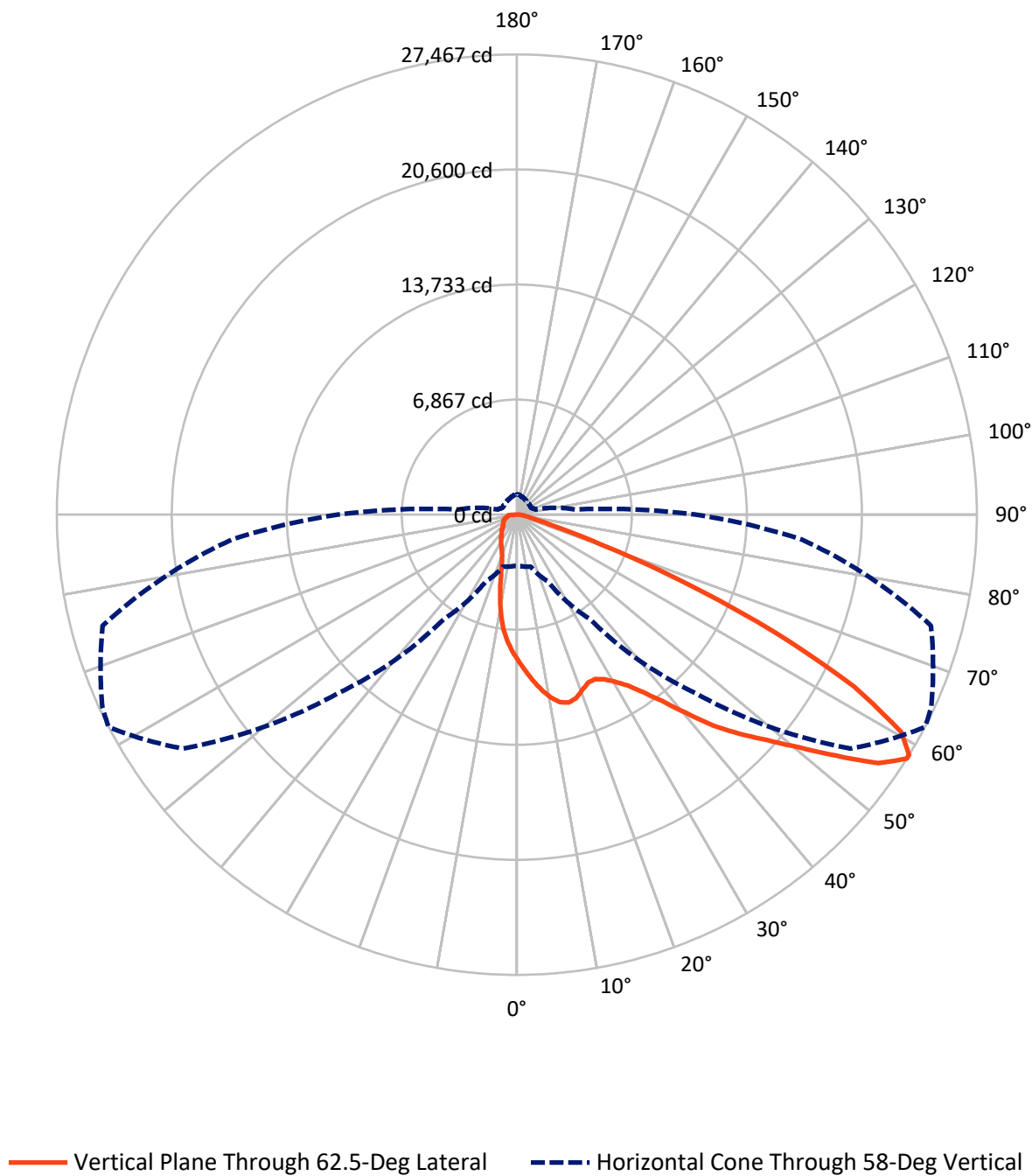


Based on 30 foot mounting height. Maximum calculated value = 11.8 fc
Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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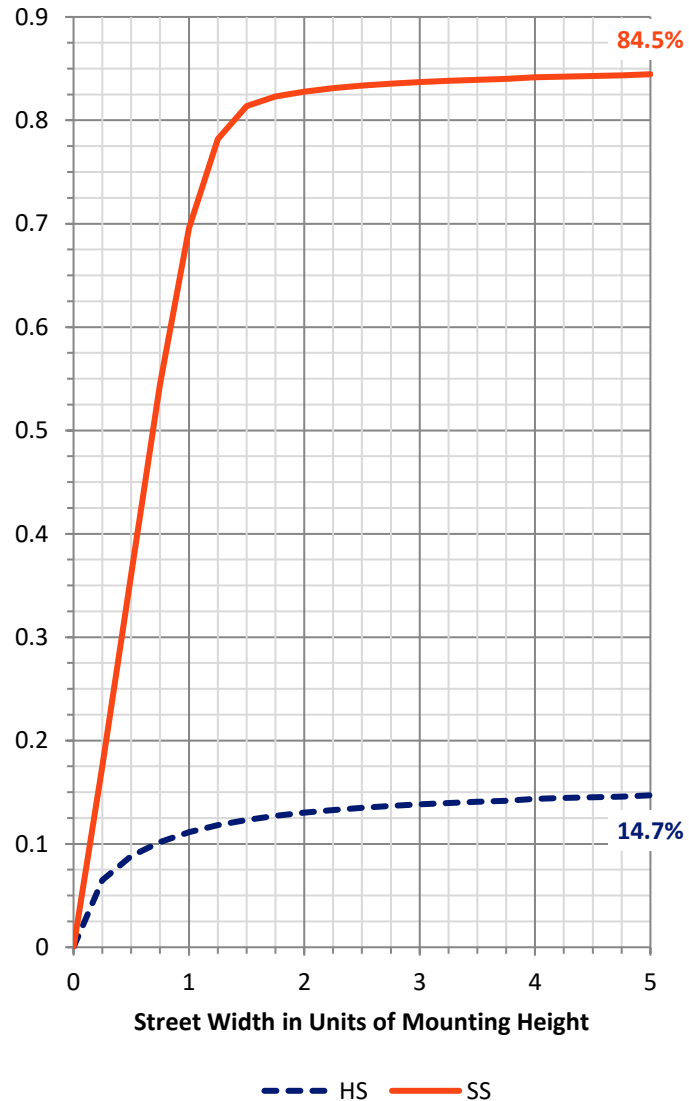
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4986.0	0.0	4986.0
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	27708.0	0.0	27708.0
	% Fixture	84.7	0.0	84.7
Total	Lumens	32694.0	0.0	32694.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	776.7	2.4
10°-20°	1985.4	6.1
20°-30°	3209.4	9.8
30°-40°	5094.9	15.6
40°-50°	7454.9	22.8
50°-60°	7797.2	23.8
60°-70°	4606.6	14.1
70°-80°	1297.7	4.0
80°-90°	471.1	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°	32694.0	100.0
0°-180°	32694.0	100.0

Coefficient of Utilization



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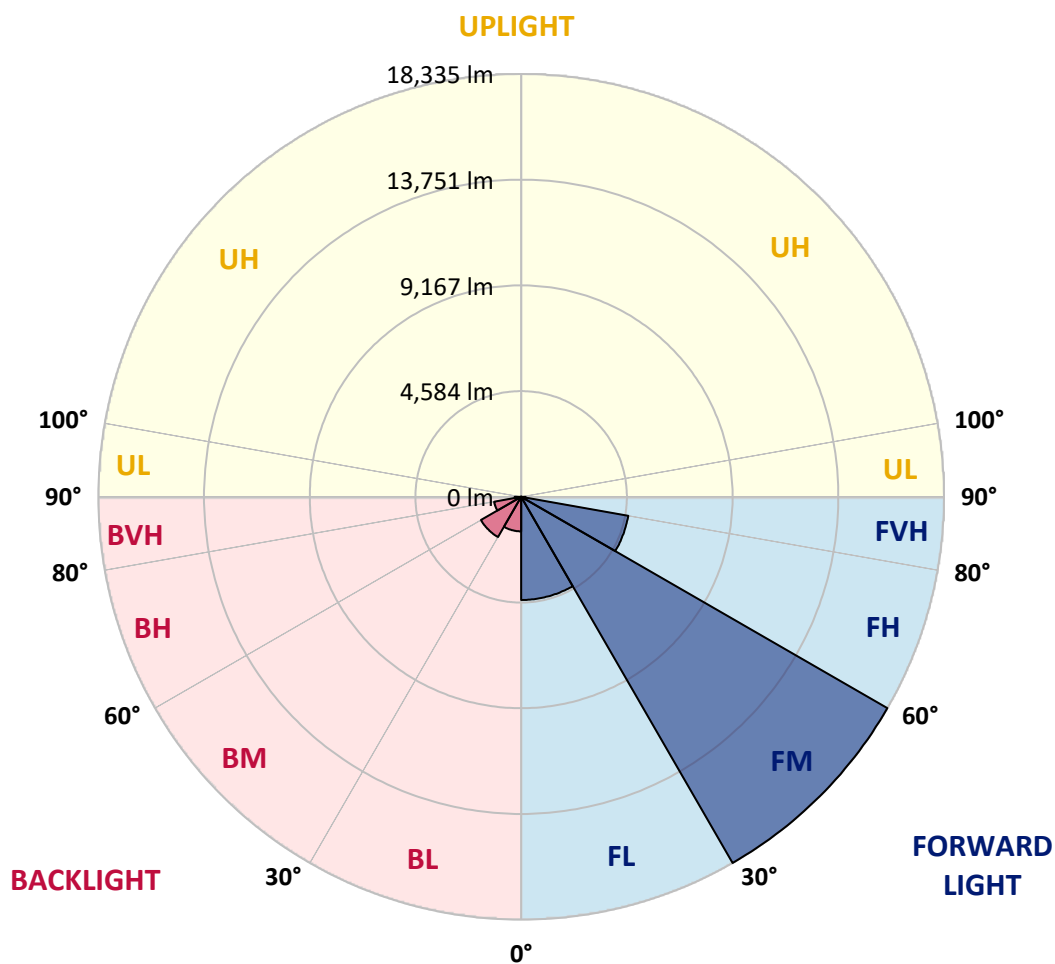
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4472.9	13.7			
FM	(30°-60°)	18334.6	56.1			
FH	(60°-80°)	4714.6	14.4			G2/5000
FVH	(80°-90°)	185.9	0.6			G2/225
BL	(0°-30°)	1498.5	4.6	B3/2500		
BM	(30°-60°)	2012.5	6.2	B2/2500		
BH	(60°-80°)	1189.7	3.6	B3/2500		G3/2500
BVH	(80°-90°)	285.3	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°	8684.5	8684.5	8684.5	8684.5	8684.5	8684.5	8684.5	8684.5	8684.5	8684.5	8684.5
2.5°	9923.8	9843.8	9793.0	9748.3	9689.8	9565.1	9397.3	9291.1	9237.2	9054.0	8836.9
5°	10896.8	10826.0	10773.6	10713.6	10608.9	10413.4	10142.4	9926.9	9820.7	9454.3	9020.1
7.5°	10669.0	10698.2	10789.0	10947.6	11083.1	11056.9	10815.2	10541.2	10401.1	9891.5	9232.6
10°	9295.7	9346.5	9503.5	9874.6	10475.0	11090.8	11278.6	11089.2	10947.6	10324.1	9451.2
12.5°	9020.1	9018.6	9030.9	9129.4	9486.6	10353.3	11294.0	11484.9	11400.2	10736.7	9674.4
15°	9132.5	9135.6	9126.3	9167.9	9278.8	9622.1	10822.9	11637.3	11697.4	11152.4	9905.3
17.5°	9428.1	9420.4	9385.0	9385.0	9425.0	9558.9	10268.7	11495.7	11772.8	11520.3	10108.6
20°	9923.8	9888.4	9794.5	9708.3	9665.2	9737.5	10040.8	11169.3	11641.9	11842.1	10276.4
22.5°	10524.2	10496.5	10344.1	10159.4	10010.0	10008.5	10157.8	10884.5	11415.6	12145.4	10418.0
25°	11300.2	11255.5	11029.2	10733.6	10471.9	10371.8	10413.4	10870.6	11292.5	12474.8	10544.2
27.5°	12211.6	12130.0	11862.1	11435.6	11050.8	10849.1	10789.0	11121.6	11404.8	12882.8	10719.8
30°	13316.9	13223.0	12879.7	12323.9	11780.5	11449.5	11321.7	11566.5	11777.4	13380.1	11001.5
32.5°	14574.7	14439.3	14042.1	13429.3	12715.0	12210.0	12002.2	12154.6	12322.4	13978.9	11354.0
35°	16312.9	16151.2	15577.0	14731.8	13925.1	13230.7	12898.2	13009.0	13172.2	14871.9	11863.6
37.5°	17498.3	17426.0	17044.1	16249.8	15372.2	14573.2	14059.0	14123.7	14216.0	15988.0	12516.4
40°	17487.5	17516.8	17524.5	17532.2	16934.8	16169.7	15617.0	15549.3	15530.8	17213.5	13258.4
42.5°	16611.5	16731.6	17119.6	17906.3	18269.6	17918.6	17412.1	17216.6	17119.6	18657.6	14045.1
45°	15270.6	15335.3	16061.9	17598.4	18953.2	19650.6	19267.2	18651.4	18475.9	19984.7	14697.9
47.5°	14579.4	14650.2	15107.4	16782.4	18945.5	21050.0	21271.7	20098.6	19784.5	21139.3	15261.4
50°	12933.6	13081.4	13657.2	15363.0	18254.2	21693.5	23367.0	21822.9	21173.2	22263.2	15826.4
52.5°	9911.5	10139.4	10784.4	13029.1	16500.7	21374.9	25043.6	23913.5	22996.0	23427.0	16311.3
55°	6252.0	6421.4	6963.3	9201.8	13199.9	19716.8	25679.4	26175.1	25359.2	24529.4	16731.6
57.5°	3399.3	3474.7	3677.9	5080.5	8586.0	16051.2	24752.6	27462.2	27123.5	25465.4	17048.8
58°	3042.1	3092.9	3219.2	4403.1	7614.5	15048.9	24341.5	27466.8	27297.4	25602.4	17073.4
60°	2257.0	2230.8	2118.4	2512.5	4238.3	10396.5	21856.7	26367.6	26864.8	25770.2	16953.3
62.5°	1982.9	1919.8	1690.4	1664.2	2061.4	4789.5	16723.9	22586.5	23761.1	24812.6	16223.6
65°	1862.8	1795.1	1499.5	1404.1	1487.2	2026.0	9851.5	16939.5	18412.8	21909.1	14357.7
67.5°	1773.5	1685.8	1377.9	1247.0	1253.2	1339.4	3948.9	10669.0	12327.0	16634.6	11167.8
70°	1687.3	1591.9	1274.7	1123.9	1088.4	1059.2	1570.3	5340.6	6844.8	10507.3	7120.3
72.5°	1595.0	1501.0	1183.9	1026.9	957.6	860.6	1025.3	2184.6	3051.4	4971.1	3229.9
75°	1461.0	1376.3	1093.1	940.7	842.1	712.8	774.4	1140.8	1368.6	1979.8	1556.5
77.5°	1296.3	1227.0	991.5	869.8	746.7	578.9	595.8	791.3	877.5	1133.1	925.3
80°	931.4	956.0	882.2	782.1	665.1	469.6	457.2	577.3	623.5	728.2	602.0
82.5°	654.3	668.2	729.7	638.9	549.6	369.5	337.2	406.4	434.1	478.8	324.8
85°	451.1	435.7	500.3	444.9	397.2	246.3	230.9	275.6	292.5	297.1	167.8
87.5°	271.0	271.0	289.4	238.6	214.0	127.8	124.7	157.0	167.8	160.1	92.4
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°	8684.5	8684.5	8684.5	8684.5	8684.5	8684.5	8684.5	8684.5	8684.5	8684.5	8684.5
2.5°	8707.6	8598.3	8365.8	8179.5	7944.0	7699.2	7562.2	7415.9	7315.9	7243.5	7359.0
5°	8773.8	8550.6	8070.2	7614.5	7111.1	6587.7	6190.5	5821.0	5563.9	5403.8	5554.6
7.5°	8878.5	8535.2	7770.0	6991.0	6087.3	5215.9	4436.9	3948.9	3664.1	3524.0	3611.7
10°	8998.6	8510.5	7417.5	6145.8	4852.6	3754.9	3173.0	2975.9	2911.3	2885.1	2897.4
12.5°	9098.6	8458.2	6984.9	5123.6	3644.1	2965.1	2797.3	2792.7	2806.6	2809.6	2814.3
15°	9169.4	8381.2	6342.9	4058.2	2914.3	2701.9	2692.6	2720.4	2746.5	2757.3	2763.5
17.5°	9217.2	8222.6	5617.7	3208.4	2611.0	2574.1	2595.6	2631.1	2658.8	2666.5	2672.6
20°	9212.6	7990.2	4754.1	2675.7	2446.3	2446.3	2483.3	2511.0	2512.5	2503.3	2507.9
22.5°	9164.8	7671.5	3916.6	2392.4	2300.1	2326.2	2363.2	2337.0	2229.2	2158.4	2163.0
25°	9084.8	7291.2	3199.1	2212.3	2164.6	2210.8	2200.0	2002.9	1849.0	1779.7	1779.7
27.5°	9014.0	6841.7	2648.0	2055.3	2029.1	2086.1	1895.2	1716.6	1651.9	1619.6	1608.8
30°	8963.2	6356.7	2280.0	1904.4	1901.3	1859.8	1644.2	1595.0	1584.2	1558.0	1548.8
32.5°	8975.5	5865.6	2044.5	1772.0	1782.8	1591.9	1524.1	1534.9	1525.7	1498.0	1485.6
35°	9077.1	5399.1	1890.5	1651.9	1619.6	1437.9	1453.3	1473.3	1470.3	1431.8	1419.4
37.5°	9258.7	4957.3	1788.9	1551.8	1413.3	1360.9	1385.6	1416.4	1408.7	1382.5	1373.3
40°	9449.6	4541.6	1705.8	1473.3	1291.7	1308.6	1330.2	1347.1	1354.8	1362.5	1356.3
42.5°	9635.9	4107.5	1604.2	1393.3	1240.9	1259.3	1268.6	1285.5	1327.1	1356.3	1354.8
45°	9746.8	3699.5	1499.5	1279.4	1200.8	1211.6	1205.5	1239.3	1290.1	1337.9	1339.4
47.5°	9869.9	3382.3	1416.4	1174.7	1162.3	1170.0	1151.6	1185.4	1231.6	1290.1	1296.3
50°	10019.3	3193.0	1350.2	1091.5	1110.0	1110.0	1105.4	1136.2	1200.8	1268.6	1280.9
52.5°	10188.6	3156.0	1294.7	1031.5	1057.7	1056.1	1060.7	1106.9	1177.7	1243.9	1254.7
55°	10394.9	3256.1	1234.7	986.8	1006.9	1013.0	1028.4	1080.8	1140.8	1216.2	1220.8
57.5°	10635.1	3459.3	1187.0	951.4	960.7	980.7	1005.3	1053.0	1117.7	1200.8	1205.5
58°	10675.1	3502.4	1179.3	948.4	951.4	974.5	1002.2	1048.4	1113.1	1203.9	1208.5
60°	10676.6	3645.6	1162.3	934.5	916.0	954.5	985.3	1031.5	1105.4	1214.7	1225.5
62.5°	10297.9	3644.1	1150.0	914.5	879.1	926.8	962.2	1016.1	1097.7	1240.9	1262.4
65°	9067.8	3311.5	1091.5	883.7	849.8	902.2	942.2	1005.3	1119.2	1354.8	1368.6
67.5°	7092.6	2714.2	982.2	840.6	811.3	877.5	929.9	1003.8	1142.3	1381.0	1390.2
70°	4689.4	2030.6	862.1	791.3	771.3	848.3	936.0	1056.1	1116.2	1325.5	1300.9
72.5°	2434.0	1425.6	765.1	729.7	725.1	822.1	1025.3	1050.0	1090.0	1247.0	1216.2
75°	1277.8	989.9	680.5	662.0	669.7	816.0	1210.1	1022.2	1056.1	1193.1	1251.6
77.5°	782.1	799.0	608.1	600.4	615.8	797.5	1208.5	986.8	1006.9	1097.7	1162.3
80°	523.4	648.1	552.7	554.2	565.0	729.7	1085.4	931.4	946.8	1037.6	1103.8
82.5°	331.0	383.3	501.9	528.1	514.2	602.0	922.2	848.3	869.8	1187.0	1254.7
85°	167.8	240.2	435.7	508.0	463.4	421.8	748.2	743.6	754.4	856.0	894.5
87.5°	77.0	132.4	340.2	443.4	349.5	263.3	543.5	551.2	594.3	608.1	608.1
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)