

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: P321070

Luminaire Tested: **GAN-SA6A-827-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321070
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA6A-827-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21020 lumens
Efficiency: N/A
Efficacy: 108.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

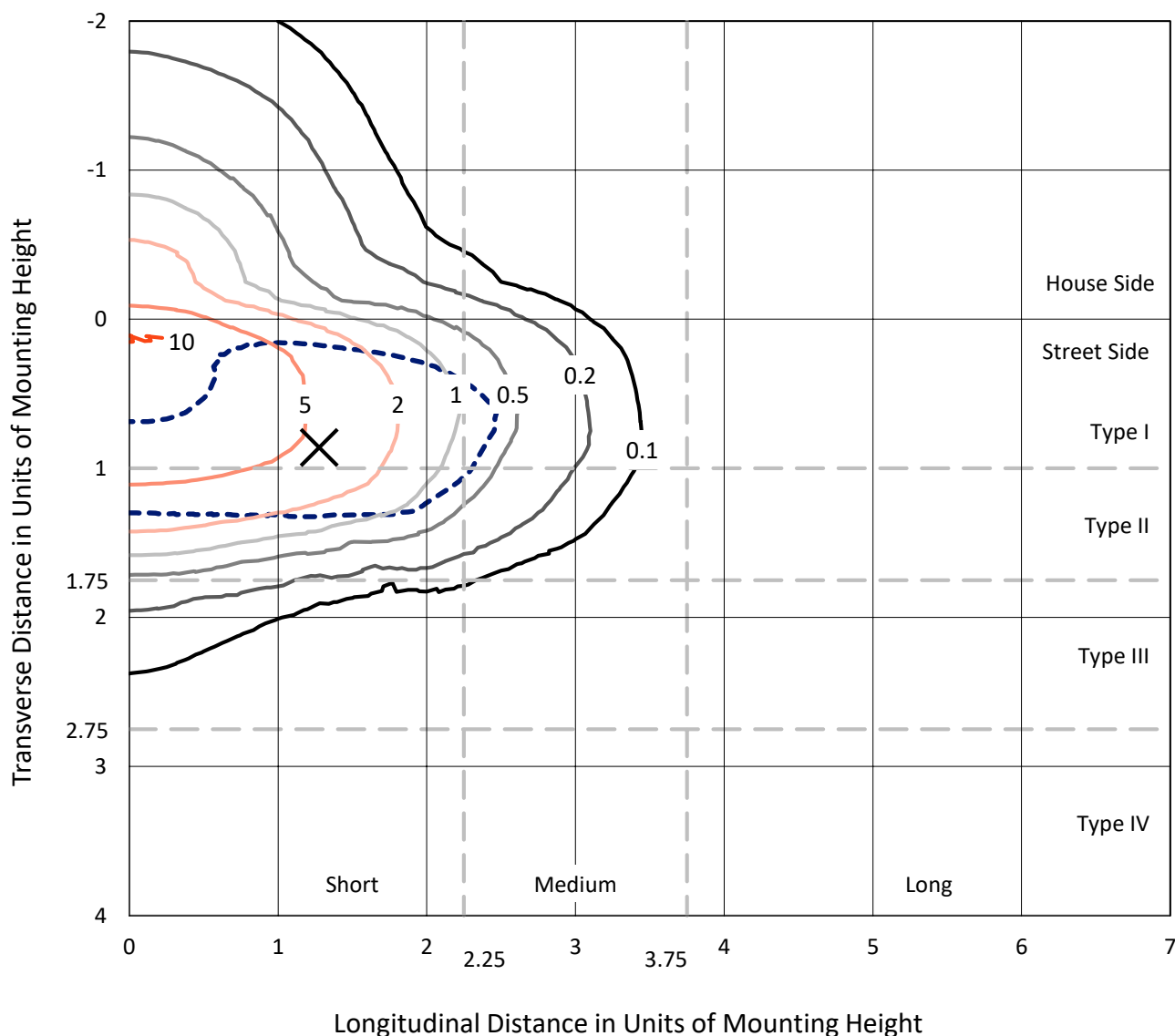
Input Watts (W): 193
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

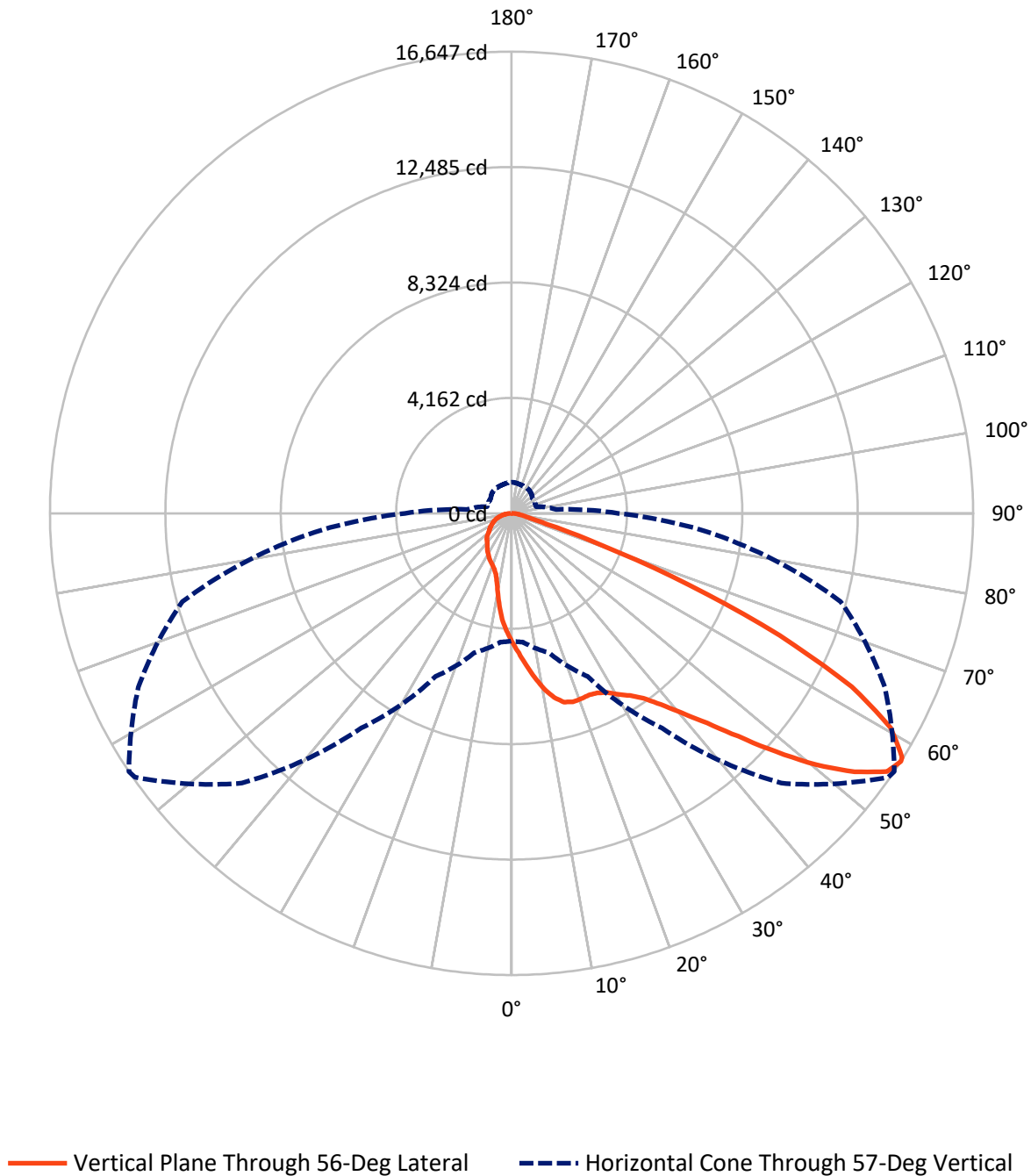
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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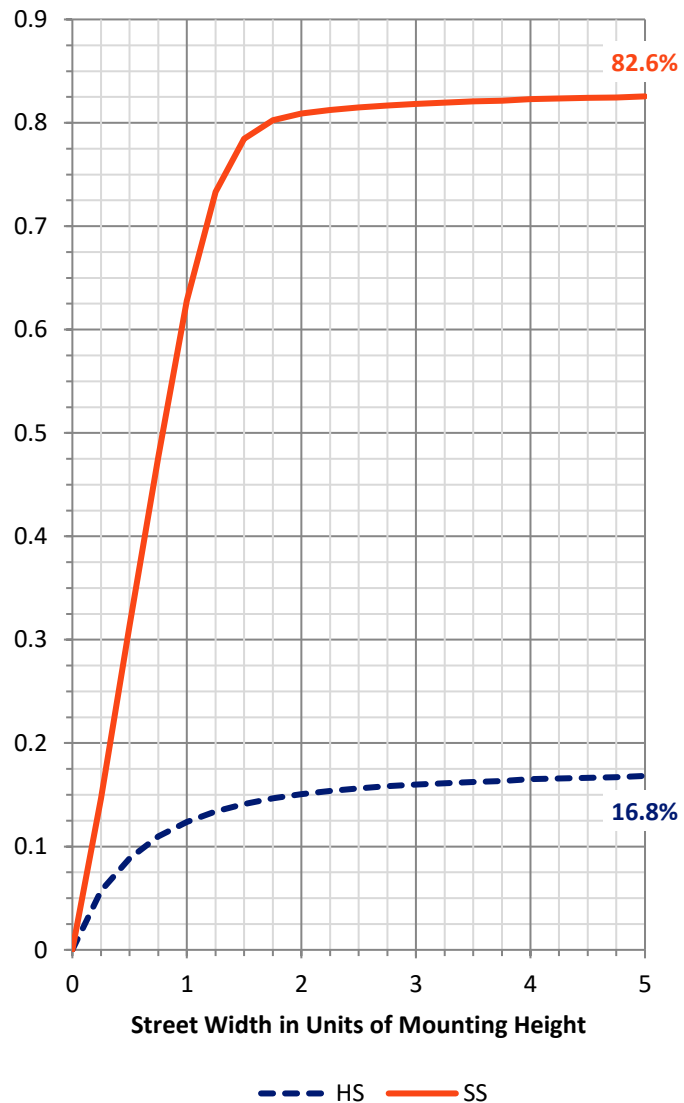
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3623.4	0.0	3623.4
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	17396.6	0.0	17396.6
	% Fixture	82.8	0.0	82.8
Total	Lumens	21020.0	0.0	21020.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	445.4	2.1
10°-20°	1259.1	6.0
20°-30°	2050.9	9.8
30°-40°	3065.9	14.6
40°-50°	4650.3	22.1
50°-60°	5212.1	24.8
60°-70°	3078.5	14.6
70°-80°	1008.6	4.8
80°-90°	249.2	1.2
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°	21020.0	100.0
0°-180°	21020.0	100.0

Coefficient of Utilization



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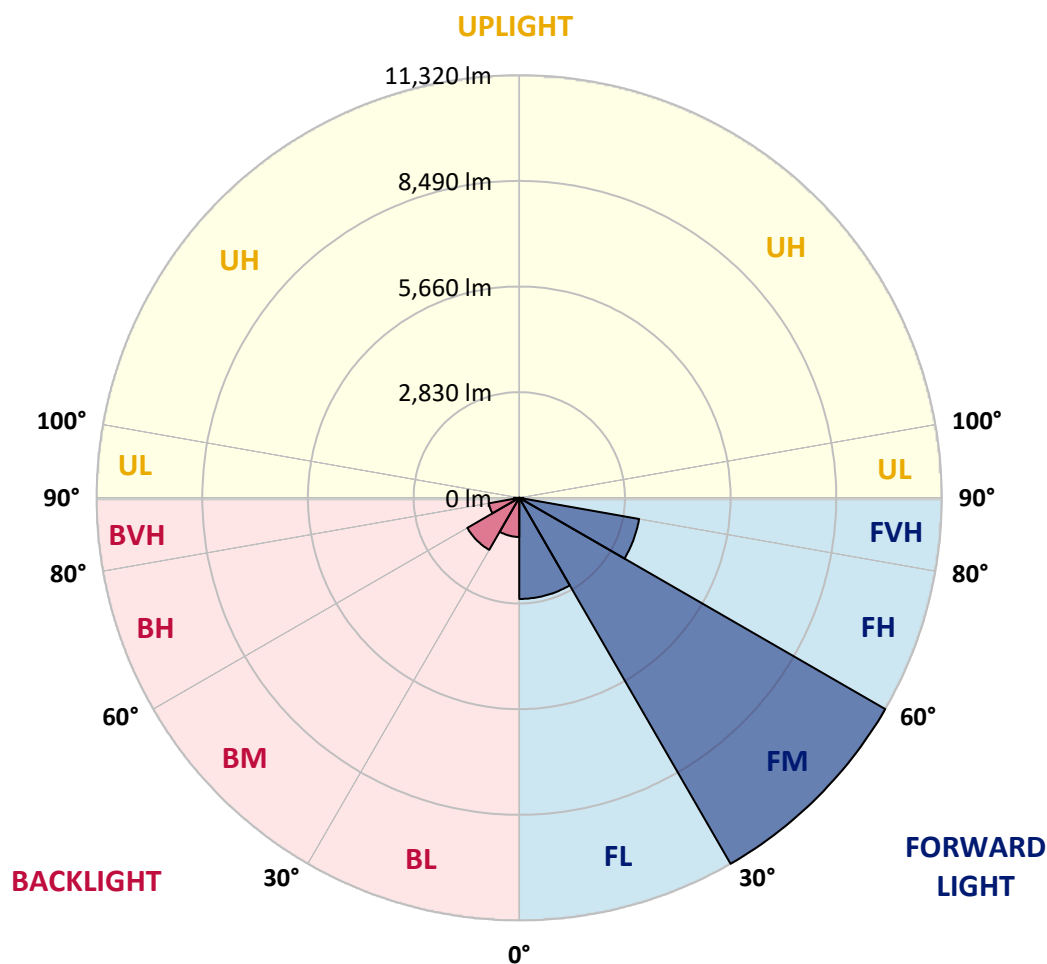
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2707.7	12.9			
FM	(30°-60°)	11320.0	53.9			
FH	(60°-80°)	3259.2	15.5			G2/5000
FVH	(80°-90°)	109.7	0.5			G2/225
BL	(0°-30°)	1047.7	5.0	B3/2500		
BM	(30°-60°)	1608.3	7.7	B2/2500		
BH	(60°-80°)	827.9	3.9	B2/1000		G2/1000
BVH	(80°-90°)	139.5	0.7			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	4662.3	4662.3	4662.3	4662.3	4662.3	4662.3	4662.3	4662.3	4662.3	4662.3	4662.3
2.5°	5353.6	5402.7	5381.0	5305.9	5248.1	5166.5	5075.5	5048.0	4951.9	4844.3	4715.0
5°	6200.9	6176.4	6141.0	6023.9	5900.4	5756.7	5528.4	5492.3	5278.4	5035.0	4777.8
7.5°	6683.5	6681.3	6660.4	6591.7	6479.0	6291.2	6016.0	5973.4	5650.5	5258.9	4860.2
10°	6613.4	6608.4	6643.0	6714.5	6748.5	6709.5	6477.6	6435.0	6038.4	5506.7	4955.5
12.5°	6215.4	6218.3	6273.9	6424.1	6628.6	6874.2	6836.6	6815.7	6440.8	5787.0	5071.1
15°	5905.5	5912.0	5956.0	6086.8	6328.1	6773.8	7054.8	7062.0	6830.1	6096.2	5206.2
17.5°	5769.7	5783.4	5803.6	5895.4	6116.4	6573.7	7106.8	7145.8	7171.1	6416.9	5336.2
20°	5813.0	5826.0	5831.8	5890.3	6071.6	6452.3	7070.7	7140.7	7432.6	6718.9	5466.3
22.5°	6007.3	6015.3	6018.9	6034.1	6174.9	6487.0	7046.8	7120.5	7621.9	6989.8	5564.5
25°	6329.5	6323.7	6300.6	6281.1	6375.7	6624.2	7101.7	7171.8	7775.7	7235.4	5628.8
27.5°	6715.3	6708.0	6663.3	6609.8	6664.0	6838.1	7259.9	7315.6	7913.7	7465.1	5661.3
30°	7178.3	7159.5	7075.0	7011.4	7032.4	7158.8	7520.7	7571.3	8126.8	7725.9	5693.1
32.5°	7713.6	7693.4	7571.3	7465.8	7465.8	7571.3	7789.4	7831.3	8307.4	8020.6	5744.4
35°	8384.0	8358.7	8199.8	8022.8	7972.9	8026.4	8155.7	8185.3	8632.5	8391.9	5837.6
37.5°	9174.3	9140.3	8934.4	8697.5	8588.4	8585.5	8678.7	8739.4	9151.9	8879.5	5995.8
40°	9966.7	9942.9	9763.0	9576.6	9362.8	9294.2	9437.9	9456.7	9830.9	9484.9	6198.0
42.5°	10579.3	10575.0	10541.7	10566.3	10347.4	10208.7	10321.4	10336.6	10660.2	10140.1	6413.3
45°	10902.9	10910.1	11071.2	11428.1	11509.0	11407.9	11463.5	11467.8	11608.0	10801.1	6610.5
47.5°	10643.6	10681.1	11088.6	11886.8	12549.2	12885.1	12792.7	12846.1	12526.8	11368.9	6765.1
50°	9633.0	9679.2	10372.7	11682.4	13034.7	14314.7	14266.3	14254.0	13268.0	11784.9	6848.9
52.5°	8381.1	8417.2	8989.3	10619.7	12678.5	15105.0	15549.3	15485.7	13926.8	12096.3	6864.8
55°	6474.7	6531.1	7079.3	8498.8	11238.1	14803.1	16492.7	16435.6	14527.1	12259.5	6846.0
57°	4603.0	4662.3	5206.9	6486.3	9453.8	13757.8	16586.6	16647.3	14851.5	12287.0	6867.0
57.5°	4107.5	4168.1	4707.8	5950.3	8897.6	13380.0	16505.7	16606.8	14910.0	12282.7	6878.5
60°	2068.2	2091.3	2435.2	3321.5	5624.5	10817.0	15450.3	15711.1	14962.7	12070.3	6928.4
62.5°	1285.8	1269.2	1258.4	1530.0	2736.4	7173.3	13272.3	13774.4	13953.5	11555.9	6807.7
65°	1130.5	1099.5	980.3	958.6	1208.5	3484.0	9994.9	10619.7	11797.2	10745.4	6520.2
67.5°	1061.9	1031.6	897.2	816.3	817.0	1381.2	6205.3	6908.9	9190.1	9375.1	5841.9
70°	991.1	963.7	838.0	742.6	695.7	765.0	2854.9	3388.7	5990.7	7369.0	4882.6
72.5°	900.1	881.3	762.1	663.9	614.0	572.8	1093.0	1290.9	3468.2	4949.0	3390.9
75°	804.7	787.4	685.5	591.6	531.0	450.8	615.5	663.1	1761.9	2531.9	1669.4
77.5°	700.0	689.9	609.7	523.0	474.6	373.5	435.6	458.7	755.6	1085.7	837.2
80°	557.0	576.5	533.1	465.9	421.1	299.1	308.5	323.6	439.9	530.2	475.3
82.5°	362.6	396.6	417.5	378.5	346.7	235.5	221.8	228.3	286.8	323.6	206.6
85°	151.0	169.8	274.5	247.8	230.4	171.9	148.8	151.7	177.7	184.2	84.5
87.5°	67.2	71.5	120.6	113.4	97.5	59.2	63.6	69.3	94.6	89.6	32.5
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°	4662.3	4662.3	4662.3	4662.3	4662.3	4662.3	4662.3	4662.3	4662.3	4662.3	4662.3
2.5°	4666.6	4605.9	4501.9	4387.0	4293.1	4218.0	4142.1	4090.1	4029.4	3996.9	3980.3
5°	4670.2	4551.0	4332.1	4107.5	3906.6	3723.2	3548.3	3414.0	3288.3	3220.4	3201.6
7.5°	4685.4	4506.2	4152.3	3782.4	3425.5	3099.7	2848.4	2690.9	2577.5	2526.9	2512.4
10°	4697.7	4453.5	3929.8	3382.2	2896.8	2566.6	2371.6	2283.5	2244.4	2237.9	2231.4
12.5°	4726.5	4399.3	3695.7	2964.7	2485.7	2257.4	2189.5	2183.8	2194.6	2210.5	2210.5
15°	4772.1	4345.9	3428.4	2606.4	2224.2	2144.0	2157.8	2189.5	2219.2	2243.7	2247.3
17.5°	4805.3	4280.1	3140.9	2319.6	2084.8	2106.5	2155.6	2200.4	2230.7	2254.6	2256.7
20°	4829.1	4178.3	2833.9	2100.7	2004.6	2071.8	2133.2	2172.9	2193.9	2217.7	2221.3
22.5°	4816.8	4041.7	2561.6	1943.9	1939.6	2021.2	2079.7	2127.4	2111.5	2088.4	2103.6
25°	4757.6	3853.9	2281.3	1826.9	1871.0	1953.3	2025.6	1993.8	1940.3	1930.2	1936.0
27.5°	4652.1	3614.1	2021.9	1718.5	1791.5	1890.5	1886.1	1854.4	1835.6	1822.6	1830.5
30°	4538.7	3354.0	1795.1	1623.9	1703.4	1785.0	1768.4	1767.7	1748.9	1727.9	1738.1
32.5°	4426.8	3092.5	1615.2	1545.9	1636.9	1647.8	1683.9	1694.7	1657.9	1613.8	1610.9
35°	4329.2	2845.5	1478.7	1475.1	1556.7	1558.2	1610.9	1595.7	1504.0	1458.5	1458.5
37.5°	4256.3	2599.1	1374.7	1411.5	1451.3	1488.8	1515.6	1452.7	1437.5	1412.3	1411.5
40°	4224.5	2382.4	1309.7	1363.1	1376.9	1424.5	1355.9	1380.5	1387.7	1374.7	1374.7
42.5°	4191.3	2193.9	1253.3	1326.3	1324.1	1317.6	1283.0	1314.7	1343.6	1344.4	1342.2
45°	4158.0	2031.3	1203.5	1247.6	1277.9	1207.8	1214.3	1248.3	1288.7	1303.2	1303.2
47.5°	4121.2	1902.8	1158.0	1164.5	1211.4	1164.5	1159.4	1185.4	1233.1	1256.2	1261.3
50°	4040.3	1787.2	1106.0	1091.5	1104.5	1120.4	1124.7	1137.0	1189.8	1226.6	1235.3
52.5°	3928.3	1683.9	1039.5	1024.3	1024.3	1084.3	1104.5	1108.1	1152.9	1197.0	1205.7
55°	3835.1	1618.1	970.9	968.0	965.1	1046.0	1080.7	1086.5	1117.5	1152.2	1156.5
57°	3841.6	1613.1	918.1	921.0	920.3	1007.0	1058.3	1070.6	1086.5	1116.1	1121.1
57.5°	3845.2	1616.7	906.6	908.0	907.3	996.2	1051.8	1065.5	1077.8	1108.9	1113.9
60°	3899.4	1626.1	859.6	843.7	847.4	938.4	1014.9	1032.3	1040.2	1081.4	1087.9
62.5°	3819.2	1584.2	822.1	783.8	783.8	877.7	963.7	991.1	1003.4	1059.0	1069.8
65°	3586.6	1466.4	778.0	715.9	723.1	817.0	902.3	947.0	965.8	1035.2	1046.7
67.5°	3227.6	1329.9	731.1	655.2	662.4	753.4	838.7	887.1	916.7	1009.2	1018.6
70°	2760.2	1163.0	667.5	590.9	599.6	684.1	763.6	818.5	862.5	984.6	987.5
72.5°	2035.0	953.5	578.6	520.1	529.5	603.2	687.7	751.3	810.5	923.2	921.8
75°	1210.0	745.5	480.4	448.6	455.1	523.7	619.1	696.4	785.2	899.4	913.1
77.5°	733.9	561.3	391.5	375.6	383.6	453.7	570.0	652.3	774.4	848.1	843.7
80°	443.5	400.9	312.8	302.7	310.6	387.9	527.3	619.1	676.9	724.5	724.5
82.5°	231.9	244.9	229.7	221.8	232.6	315.0	479.7	540.3	598.1	513.6	479.7
85°	94.6	127.9	139.4	138.7	145.2	218.2	413.9	462.3	385.8	366.2	374.9
87.5°	31.8	54.2	67.9	58.5	61.4	137.3	286.8	223.2	265.1	184.9	175.5
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)