

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: P321137

Luminaire Tested: **GAN-SA3D-830-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321137
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-SA3D-830-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 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: 19311 lumens
Efficiency: N/A
Efficacy: 101.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

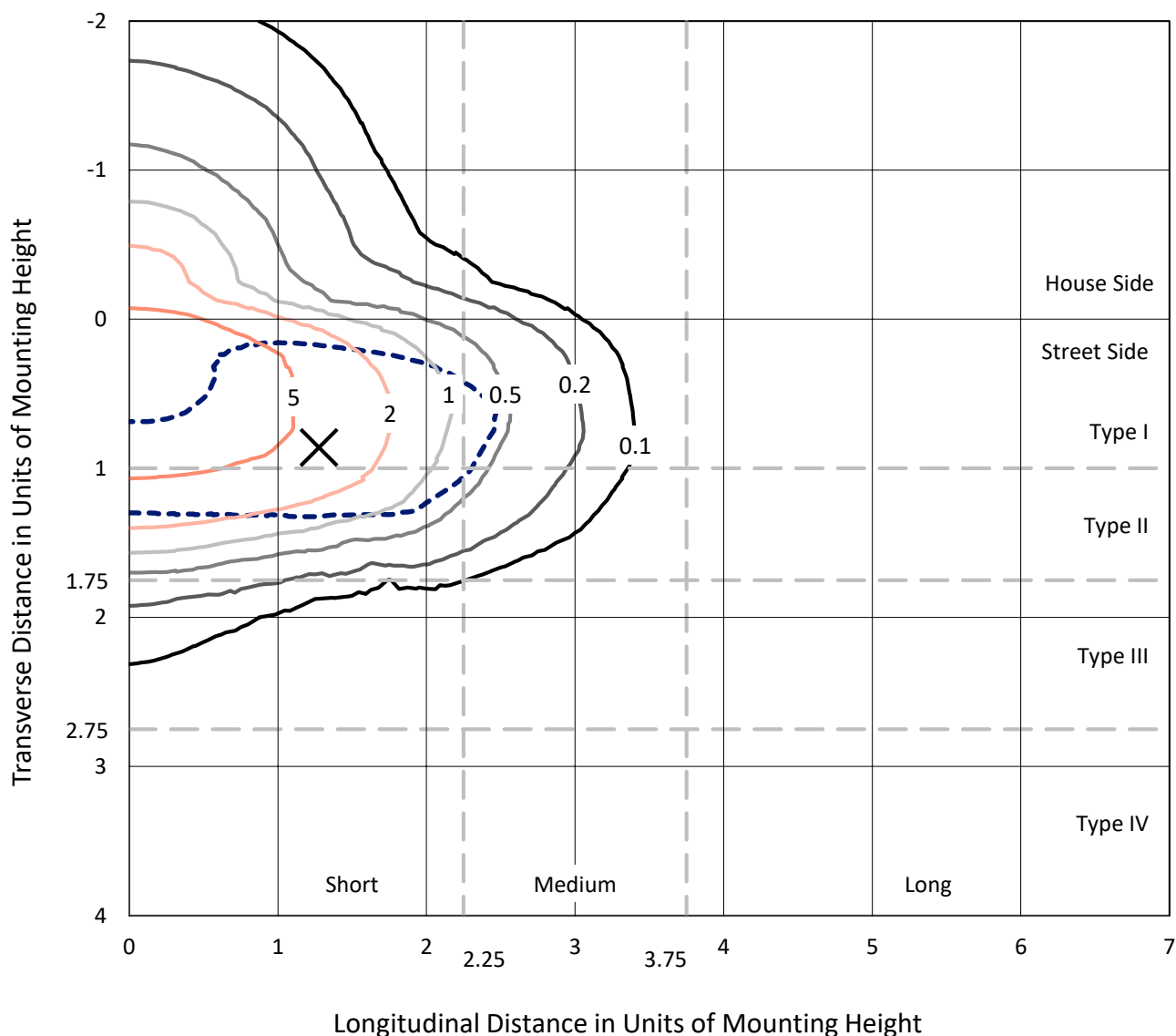
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

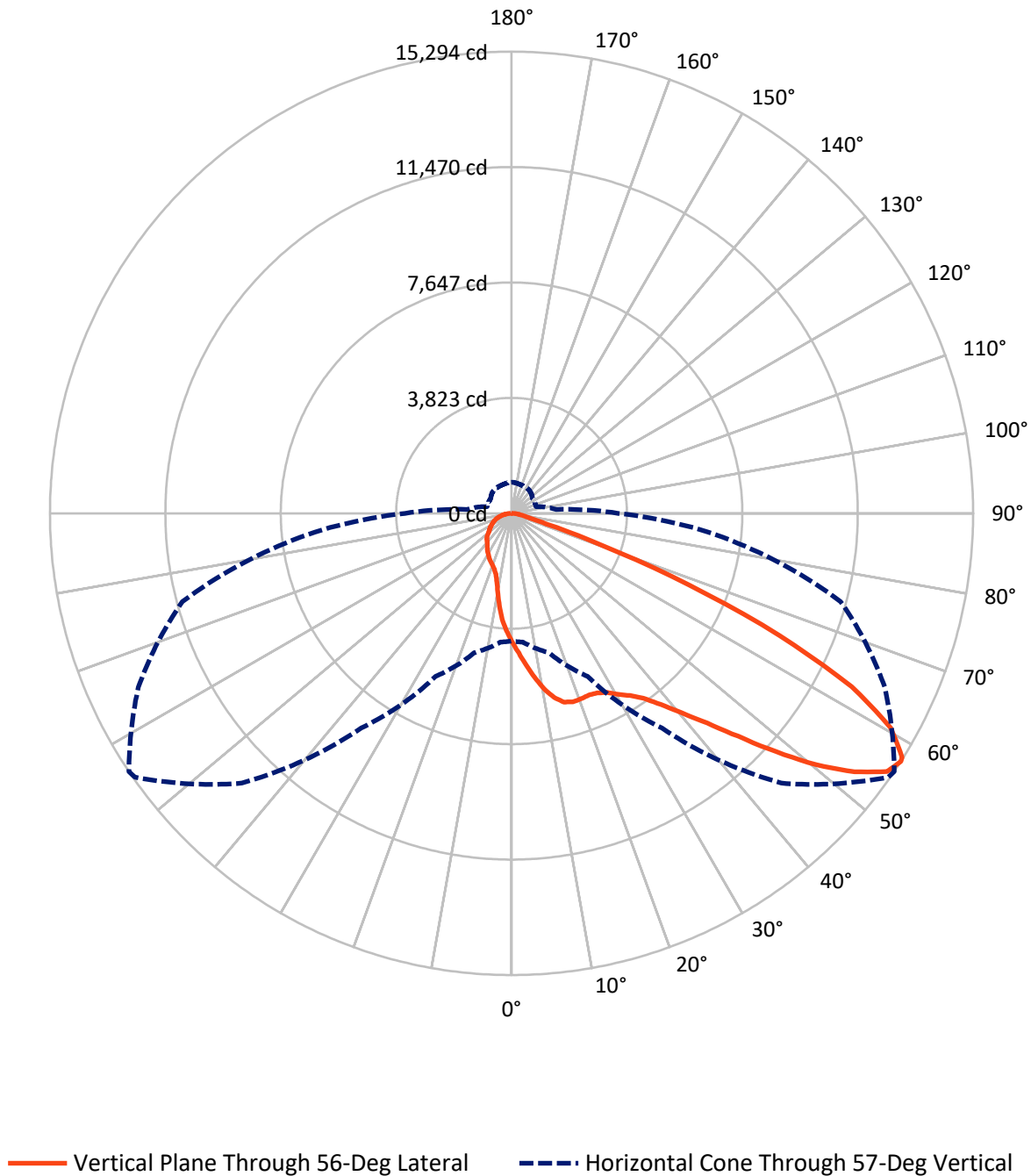
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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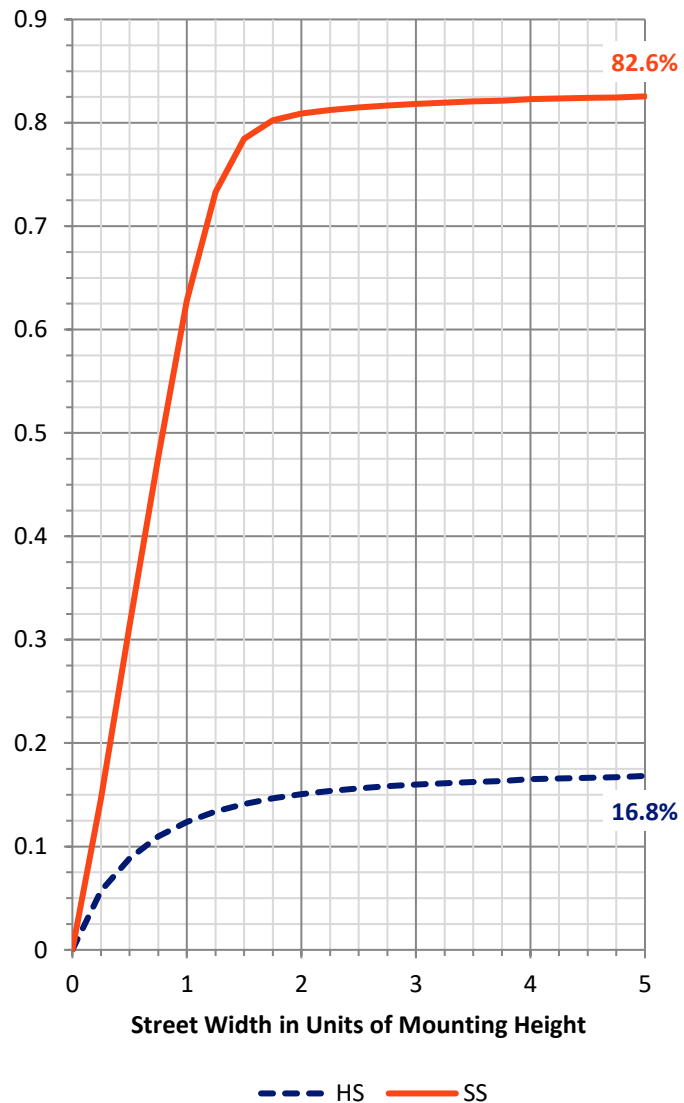
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3328.8	0.0	3328.8
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	15982.2	0.0	15982.2
	% Fixture	82.8	0.0	82.8
Total	Lumens	19311.0	0.0	19311.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	409.2	2.1
10°-20°	1156.8	6.0
20°-30°	1884.2	9.8
30°-40°	2816.6	14.6
40°-50°	4272.2	22.1
50°-60°	4788.4	24.8
60°-70°	2828.2	14.6
70°-80°	926.6	4.8
80°-90°	228.9	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°	19311.0	100.0
0°-180°	19311.0	100.0

Coefficient of Utilization



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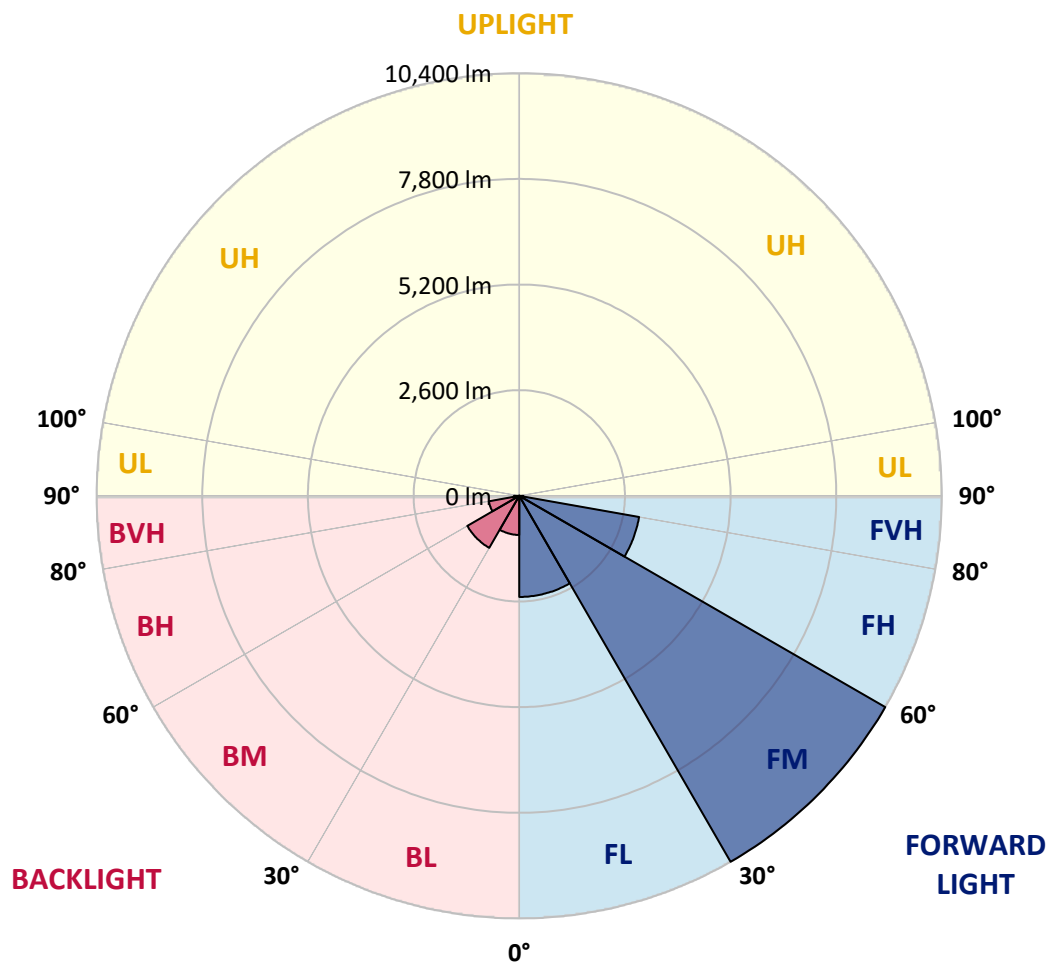
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2487.5	12.9			
FM	(30°-60°)	10399.6	53.9			
FH	(60°-80°)	2994.2	15.5			G2/5000
FVH	(80°-90°)	100.8	0.5			G2/225
BL	(0°-30°)	962.5	5.0	B2/1000		
BM	(30°-60°)	1477.5	7.7	B2/2500		
BH	(60°-80°)	760.6	3.9	B2/1000		G2/1000
BVH	(80°-90°)	128.1	0.7			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	4283.2	4283.2	4283.2	4283.2	4283.2	4283.2	4283.2	4283.2	4283.2	4283.2	4283.2
2.5°	4918.3	4963.4	4943.5	4874.5	4821.4	4746.4	4662.8	4637.6	4549.3	4450.4	4331.6
5°	5696.8	5674.2	5641.7	5534.2	5420.7	5288.6	5078.9	5045.7	4849.3	4625.6	4389.4
7.5°	6140.1	6138.1	6118.9	6055.8	5952.3	5779.7	5526.9	5487.7	5191.1	4831.4	4465.0
10°	6075.7	6071.1	6102.9	6168.6	6199.8	6164.0	5950.9	5911.8	5547.5	5059.0	4552.6
12.5°	5710.0	5712.7	5763.8	5901.8	6089.7	6315.3	6280.8	6261.5	5917.1	5316.5	4658.8
15°	5425.3	5431.3	5471.8	5591.9	5813.6	6223.0	6481.2	6487.8	6274.8	5600.5	4782.9
17.5°	5300.6	5313.2	5331.8	5416.0	5619.1	6039.2	6529.0	6564.8	6588.1	5895.2	4902.4
20°	5340.4	5352.3	5357.6	5411.4	5578.0	5927.7	6495.8	6560.2	6828.3	6172.6	5021.8
22.5°	5518.9	5526.2	5529.5	5543.5	5672.9	5959.6	6473.9	6541.6	7002.2	6421.5	5112.1
25°	5814.9	5809.6	5788.4	5770.4	5857.4	6085.7	6524.3	6588.7	7143.5	6647.1	5171.2
27.5°	6169.3	6162.7	6121.5	6072.4	6122.2	6282.1	6669.7	6720.8	7270.3	6858.2	5201.0
30°	6594.7	6577.4	6499.8	6441.4	6460.6	6576.8	6909.3	6955.7	7466.1	7097.7	5230.2
32.5°	7086.5	7067.9	6955.7	6858.8	6858.8	6955.7	7156.1	7194.6	7632.0	7368.5	5277.3
35°	7702.3	7679.1	7533.1	7370.5	7324.7	7373.8	7492.6	7519.8	7930.6	7709.6	5363.0
37.5°	8428.4	8397.2	8208.0	7990.3	7890.1	7887.5	7973.1	8028.8	8407.8	8157.6	5508.3
40°	9156.4	9134.5	8969.2	8798.0	8601.6	8538.5	8670.6	8687.8	9031.6	8713.7	5694.1
42.5°	9719.2	9715.2	9684.6	9707.2	9506.1	9378.7	9482.2	9496.2	9793.5	9315.7	5891.9
45°	10016.5	10023.1	10171.1	10498.9	10573.3	10480.4	10531.5	10535.4	10664.2	9922.9	6073.1
47.5°	9778.2	9812.7	10187.0	10920.4	11528.9	11837.5	11752.6	11801.7	11508.4	10444.5	6215.1
50°	8849.8	8892.2	9529.4	10732.5	11974.9	13150.9	13106.4	13095.1	12189.3	10826.8	6292.1
52.5°	7699.7	7732.9	8258.5	9756.3	11647.7	13876.9	14285.1	14226.7	12794.5	11112.8	6306.7
55°	5948.3	6000.1	6503.8	7807.8	10324.4	13599.5	15151.8	15099.4	13346.0	11262.8	6289.4
57°	4228.8	4283.2	4783.6	5958.9	8685.2	12639.2	15238.1	15293.8	13644.0	11288.0	6308.7
57.5°	3773.5	3829.3	4325.0	5466.5	8174.2	12292.1	15163.7	15256.7	13697.7	11284.0	6319.3
60°	1900.0	1921.3	2237.2	3051.5	5167.2	9937.5	14194.1	14433.7	13746.2	11088.9	6365.1
62.5°	1181.3	1166.0	1156.1	1405.6	2513.9	6590.0	12193.2	12654.5	12819.1	10616.4	6254.2
65°	1038.6	1010.1	900.6	880.7	1110.3	3200.8	9182.3	9756.3	10838.1	9871.8	5990.1
67.5°	975.6	947.7	824.3	749.9	750.6	1268.9	5700.8	6347.1	8443.0	8612.9	5366.9
70°	910.5	885.3	769.8	682.2	639.1	702.8	2622.7	3113.2	5503.6	6769.9	4485.6
72.5°	826.9	809.7	700.2	609.9	564.1	526.3	1004.1	1185.9	3186.2	4546.7	3115.2
75°	739.3	723.4	629.8	543.5	487.8	414.1	565.4	609.2	1618.6	2326.1	1533.7
77.5°	643.1	633.8	560.1	480.5	436.0	343.1	400.2	421.4	694.2	997.5	769.2
80°	511.7	529.6	489.8	428.1	386.9	274.8	283.4	297.3	404.2	487.1	436.7
82.5°	333.2	364.3	383.6	347.8	318.6	216.3	203.7	209.7	263.5	297.3	189.8
85°	138.7	156.0	252.2	227.6	211.7	157.9	136.7	139.4	163.3	169.2	77.6
87.5°	61.7	65.7	110.8	104.2	89.6	54.4	58.4	63.7	86.9	82.3	29.9
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°	4283.2	4283.2	4283.2	4283.2	4283.2	4283.2	4283.2	4283.2	4283.2	4283.2	4283.2
2.5°	4287.2	4231.4	4135.9	4030.3	3944.1	3875.1	3805.4	3757.6	3701.8	3672.0	3656.7
5°	4290.5	4181.0	3979.9	3773.5	3589.0	3420.5	3259.8	3136.4	3020.9	2958.6	2941.3
7.5°	4304.4	4139.8	3814.7	3474.9	3147.0	2847.7	2616.8	2472.1	2367.9	2321.4	2308.2
10°	4315.7	4091.4	3610.3	3107.2	2661.2	2357.9	2178.8	2097.8	2062.0	2056.0	2050.0
12.5°	4342.3	4041.6	3395.2	2723.6	2283.6	2073.9	2011.5	2006.2	2016.2	2030.8	2030.8
15°	4384.1	3992.5	3149.7	2394.4	2043.4	1969.7	1982.3	2011.5	2038.7	2061.3	2064.6
17.5°	4414.6	3932.1	2885.6	2131.0	1915.3	1935.2	1980.3	2021.5	2049.4	2071.3	2073.2
20°	4436.5	3838.6	2603.5	1929.9	1841.6	1903.3	1959.8	1996.3	2015.5	2037.4	2040.7
22.5°	4425.2	3713.1	2353.3	1785.9	1781.9	1856.9	1910.6	1954.4	1939.8	1918.6	1932.5
25°	4370.8	3540.6	2095.8	1678.4	1718.9	1794.5	1860.9	1831.7	1782.6	1773.3	1778.6
27.5°	4273.9	3320.2	1857.6	1578.8	1645.9	1736.8	1732.8	1703.6	1686.3	1674.4	1681.7
30°	4169.7	3081.3	1649.2	1491.9	1564.9	1639.9	1624.6	1624.0	1606.7	1587.5	1596.7
32.5°	4066.8	2841.1	1483.9	1420.2	1503.8	1513.8	1547.0	1556.9	1523.1	1482.6	1479.9
35°	3977.3	2614.1	1358.5	1355.2	1430.2	1431.5	1479.9	1466.0	1381.7	1339.9	1339.9
37.5°	3910.2	2387.8	1262.9	1296.8	1333.3	1367.8	1392.3	1334.6	1320.7	1297.4	1296.8
40°	3881.0	2188.7	1203.2	1252.3	1264.9	1308.7	1245.7	1268.2	1274.9	1262.9	1262.9
42.5°	3850.5	2015.5	1151.4	1218.5	1216.5	1210.5	1178.6	1207.8	1234.4	1235.1	1233.1
45°	3820.0	1866.2	1105.6	1146.1	1174.0	1109.6	1115.6	1146.8	1184.0	1197.2	1197.2
47.5°	3786.1	1748.1	1063.8	1069.8	1112.9	1069.8	1065.2	1089.0	1132.9	1154.1	1158.7
50°	3711.8	1641.9	1016.0	1002.8	1014.7	1029.3	1033.3	1044.6	1093.0	1126.9	1134.8
52.5°	3608.9	1547.0	955.0	941.1	941.1	996.1	1014.7	1018.0	1059.2	1099.7	1107.6
55°	3523.3	1486.6	891.9	889.3	886.6	961.0	992.8	998.1	1026.7	1058.5	1062.5
57°	3529.3	1481.9	843.5	846.2	845.5	925.1	972.2	983.5	998.1	1025.3	1030.0
57.5°	3532.6	1485.2	832.9	834.2	833.5	915.2	966.3	978.9	990.2	1018.7	1023.3
60°	3582.4	1493.9	789.7	775.1	778.5	862.1	932.4	948.4	955.7	993.5	999.5
62.5°	3508.7	1455.4	755.2	720.1	720.1	806.3	885.3	910.5	921.8	972.9	982.9
65°	3295.0	1347.2	714.8	657.7	664.3	750.6	828.9	870.0	887.3	951.0	961.6
67.5°	2965.2	1221.8	671.6	601.9	608.6	692.2	770.5	815.0	842.2	927.1	935.7
70°	2535.8	1068.5	613.2	542.9	550.8	628.5	701.5	751.9	792.4	904.6	907.2
72.5°	1869.5	876.0	531.6	477.8	486.5	554.1	631.8	690.2	744.6	848.1	846.8
75°	1111.6	684.9	441.3	412.1	418.1	481.1	568.7	639.8	721.4	826.2	838.9
77.5°	674.3	515.7	359.7	345.1	352.4	416.8	523.6	599.3	711.4	779.1	775.1
80°	407.5	368.3	287.4	278.1	285.4	356.4	484.5	568.7	621.8	665.6	665.6
82.5°	213.0	225.0	211.0	203.7	213.7	289.4	440.7	496.4	549.5	471.9	440.7
85°	86.9	117.5	128.1	127.4	133.4	200.4	380.3	424.7	354.4	336.5	344.4
87.5°	29.2	49.8	62.4	53.8	56.4	126.1	263.5	205.1	243.6	169.9	161.3
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)