

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: P321028

Luminaire Tested: **GAN-SA4A-760-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321028
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-SA4A-760-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19285 lumens
Efficiency: N/A
Efficacy: 149.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

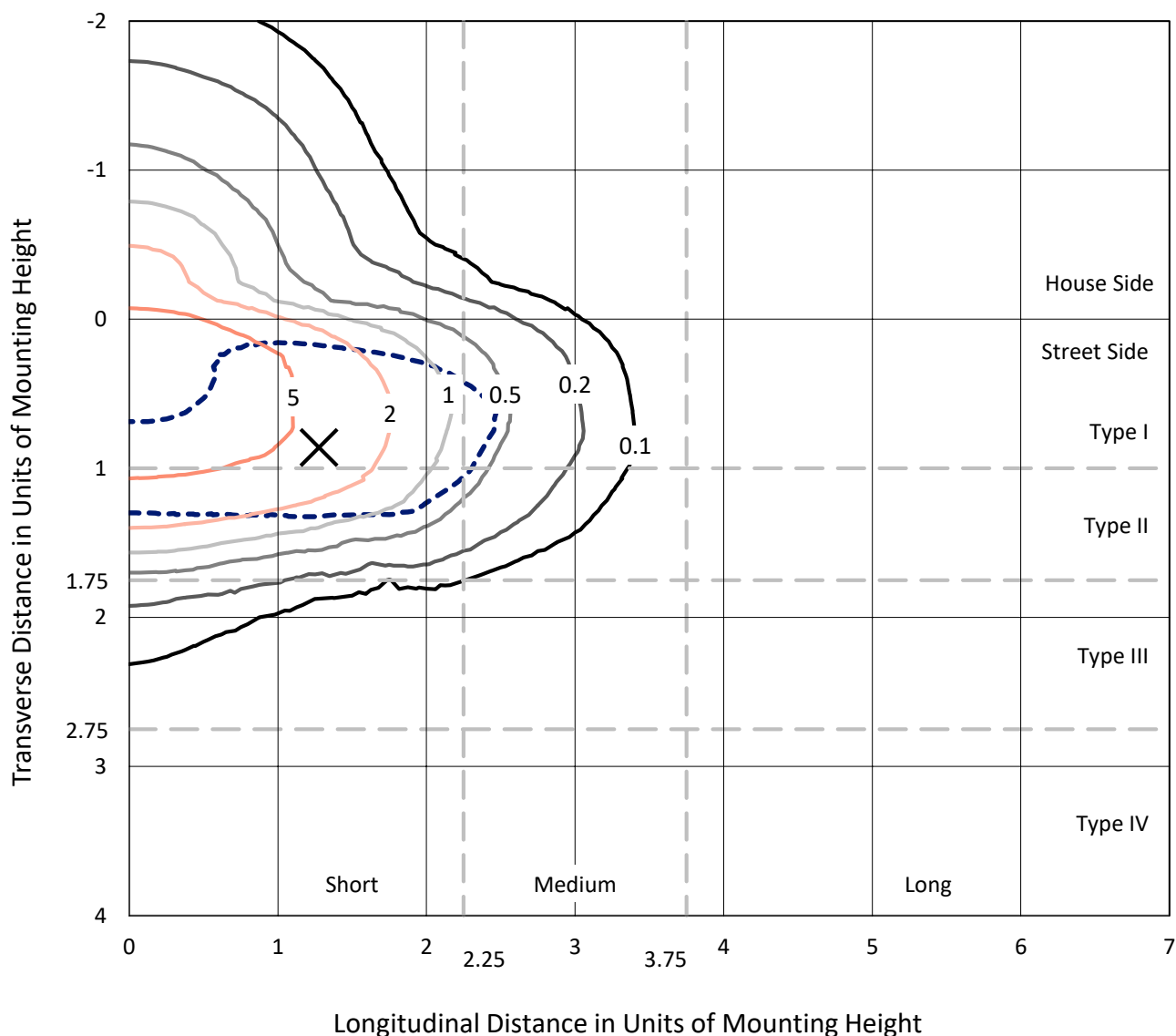
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

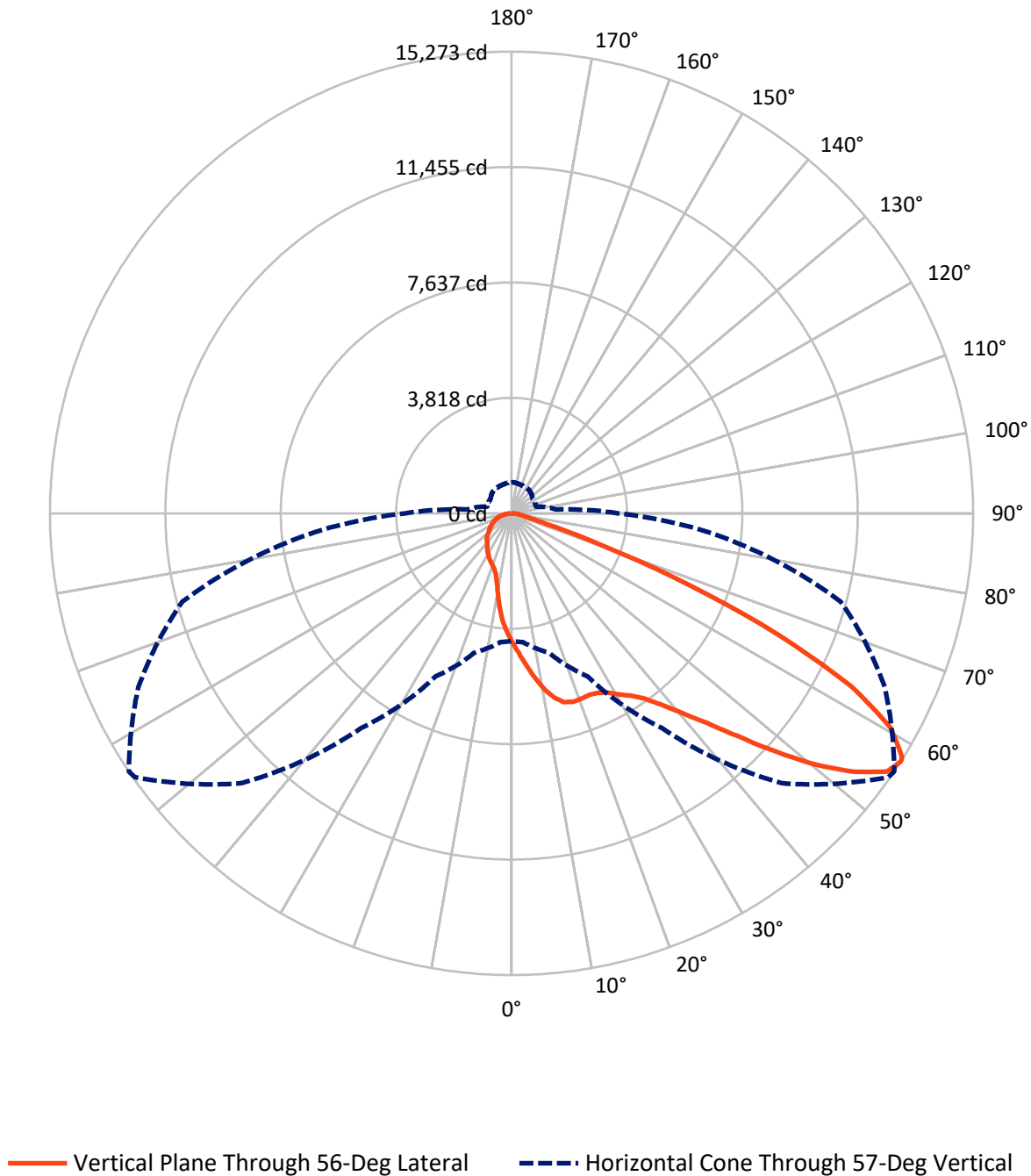
✕ Max cd
 - - - 1/2 Max cd



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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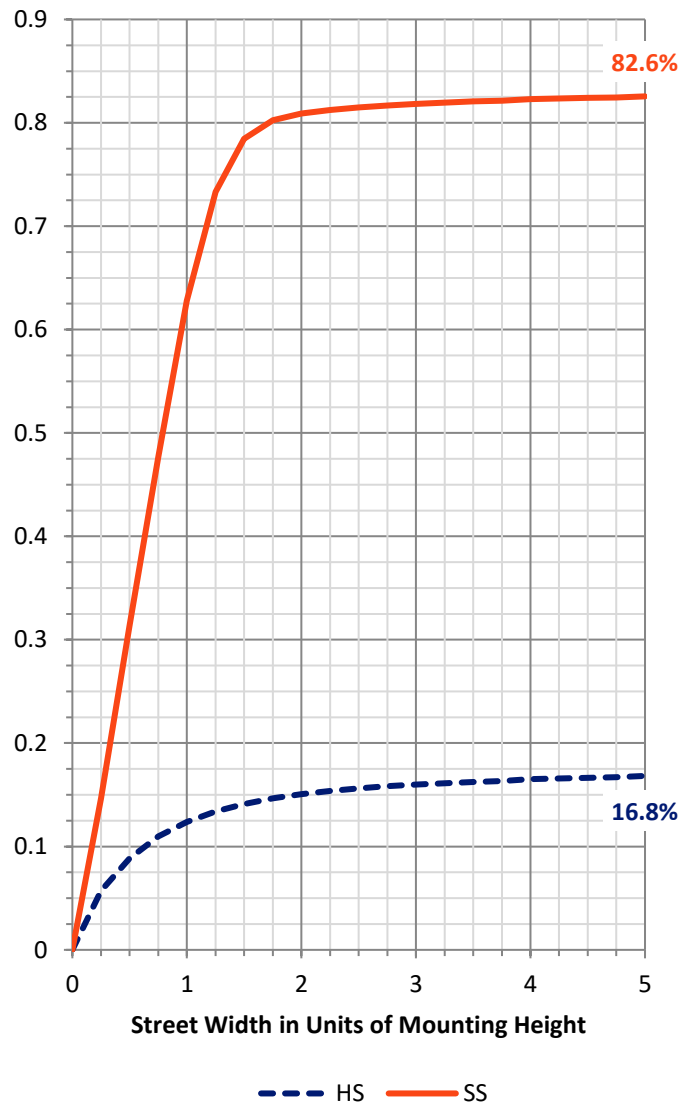
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3324.3	0.0	3324.3
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	15960.7	0.0	15960.7
	% Fixture	82.8	0.0	82.8
Total	Lumens	19285.0	0.0	19285.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	408.6	2.1
10°-20°	1155.2	6.0
20°-30°	1881.6	9.8
30°-40°	2812.8	14.6
40°-50°	4266.4	22.1
50°-60°	4781.9	24.8
60°-70°	2824.4	14.6
70°-80°	925.4	4.8
80°-90°	228.6	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°	19285.0	100.0
0°-180°	19285.0	100.0

Coefficient of Utilization



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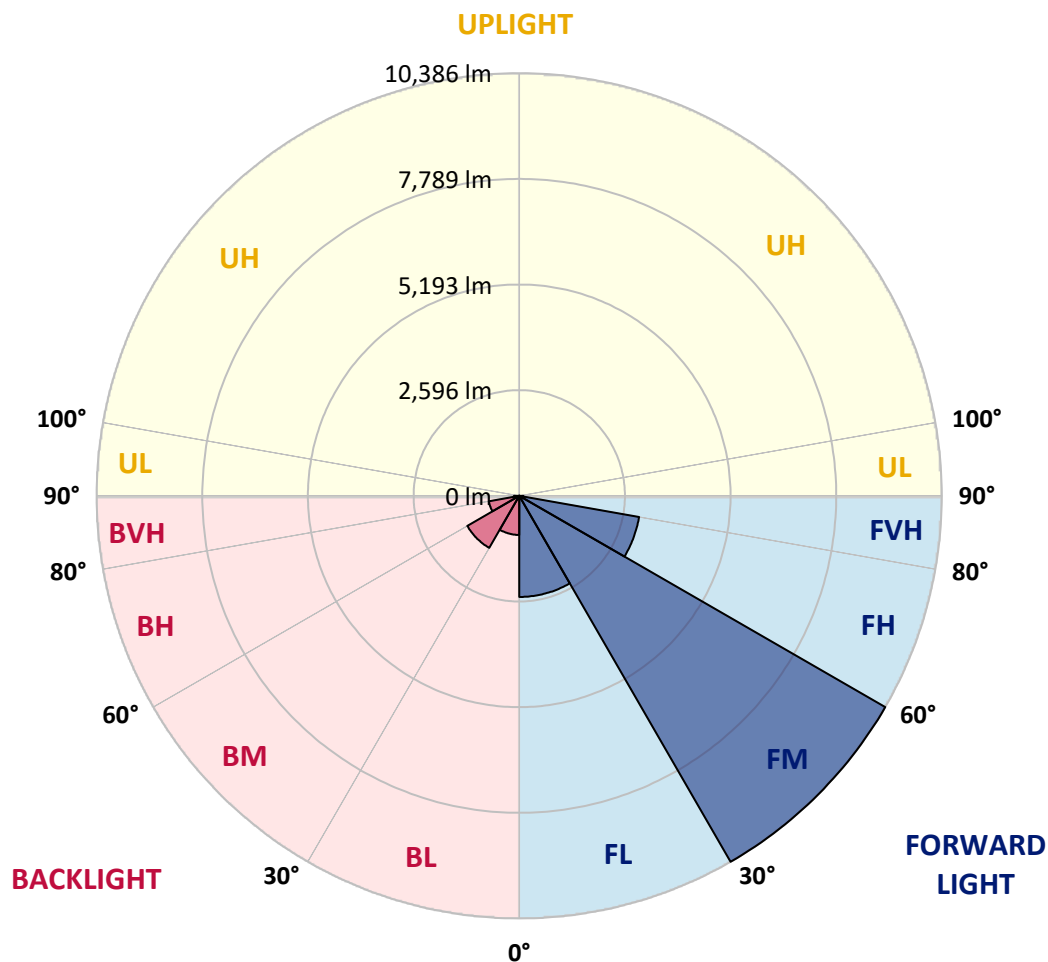
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2484.2	12.9			
FM	(30°-60°)	10385.6	53.9			
FH	(60°-80°)	2990.2	15.5			G2/5000
FVH	(80°-90°)	100.7	0.5			G2/225
BL	(0°-30°)	961.2	5.0	B2/1000		
BM	(30°-60°)	1475.6	7.7	B2/2500		
BH	(60°-80°)	759.6	3.9	B2/1000		G2/1000
BVH	(80°-90°)	128.0	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°	4277.4	4277.4	4277.4	4277.4	4277.4	4277.4	4277.4	4277.4	4277.4	4277.4	4277.4
2.5°	4911.7	4956.8	4936.9	4867.9	4814.9	4740.0	4656.5	4631.3	4543.2	4444.4	4325.8
5°	5689.1	5666.6	5634.1	5526.7	5413.4	5281.5	5072.1	5038.9	4842.8	4619.4	4383.5
7.5°	6131.8	6129.8	6110.6	6047.7	5944.3	5771.9	5519.4	5480.3	5184.1	4824.9	4459.0
10°	6067.5	6062.9	6094.7	6160.3	6191.5	6155.7	5942.9	5903.8	5540.0	5052.2	4546.5
12.5°	5702.4	5705.0	5756.0	5893.9	6081.5	6306.8	6272.3	6253.1	5909.1	5309.3	4652.6
15°	5418.0	5424.0	5464.4	5584.4	5805.7	6214.7	6472.5	6479.1	6266.4	5593.0	4776.5
17.5°	5293.4	5306.0	5324.6	5408.8	5611.6	6031.1	6520.2	6556.0	6579.2	5887.3	4895.8
20°	5333.2	5345.1	5350.4	5404.1	5570.5	5919.7	6487.1	6551.3	6819.1	6164.3	5015.1
22.5°	5511.5	5518.8	5522.1	5536.0	5665.2	5951.6	6465.2	6532.8	6992.7	6412.8	5105.2
25°	5807.1	5801.8	5780.6	5762.7	5849.5	6077.5	6515.6	6579.8	7133.9	6638.2	5164.2
27.5°	6161.0	6154.4	6113.3	6064.2	6113.9	6273.7	6660.7	6711.7	7260.5	6848.9	5194.0
30°	6585.8	6568.6	6491.0	6432.7	6451.9	6567.9	6900.0	6946.4	7456.0	7088.2	5223.2
32.5°	7076.9	7058.4	6946.4	6849.6	6849.6	6946.4	7146.5	7184.9	7621.7	7358.6	5270.2
35°	7692.0	7668.8	7522.9	7360.6	7314.8	7363.9	7482.5	7509.7	7919.9	7699.2	5355.7
37.5°	8417.0	8385.9	8197.0	7979.6	7879.5	7876.9	7962.4	8018.0	8396.5	8146.6	5500.9
40°	9144.1	9122.2	8957.2	8786.2	8590.0	8527.0	8658.9	8676.1	9019.5	8702.0	5686.5
42.5°	9706.1	9702.1	9671.6	9694.1	9493.3	9366.1	9469.5	9483.4	9780.3	9303.1	5884.0
45°	10003.0	10009.6	10157.4	10484.8	10559.0	10466.3	10517.3	10521.3	10649.8	9909.5	6064.9
47.5°	9765.1	9799.5	10173.3	10905.7	11513.4	11821.6	11736.8	11785.8	11492.9	10430.5	6206.7
50°	8837.9	8880.3	9516.5	10718.1	11958.8	13133.2	13088.8	13077.5	12172.8	10812.2	6283.6
52.5°	7689.3	7722.4	8247.3	9743.2	11632.0	13858.2	14265.8	14207.5	12777.3	11097.9	6298.2
55°	5940.3	5992.0	6495.0	7797.3	10310.5	13581.2	15131.4	15079.0	13328.0	11247.6	6280.9
57°	4223.1	4277.4	4777.1	5950.9	8673.5	12622.2	15217.6	15273.2	13625.6	11272.8	6300.2
57.5°	3768.4	3824.1	4319.2	5459.1	8163.2	12275.6	15143.3	15236.1	13679.3	11268.8	6310.8
60°	1897.5	1918.7	2234.2	3047.4	5160.2	9924.1	14175.0	14414.3	13727.7	11074.0	6356.5
62.5°	1179.7	1164.5	1154.5	1403.7	2510.5	6581.2	12176.8	12637.4	12801.8	10602.1	6245.8
65°	1037.2	1008.7	899.4	879.5	1108.8	3196.5	9169.9	9743.2	10823.5	9858.5	5982.0
67.5°	974.3	946.4	823.1	748.9	749.6	1267.2	5693.1	6338.6	8431.6	8601.3	5359.7
70°	909.3	884.1	768.8	681.3	638.2	701.9	2619.2	3109.0	5496.2	6760.8	4479.6
72.5°	825.8	808.6	699.2	609.1	563.3	525.6	1002.8	1184.3	3181.9	4540.5	3111.0
75°	738.3	722.4	629.0	542.8	487.1	413.6	564.7	608.4	1616.5	2323.0	1531.6
77.5°	642.2	632.9	559.4	479.8	435.4	342.6	399.6	420.9	693.2	996.1	768.1
80°	511.0	528.9	489.1	427.5	386.4	274.4	283.0	296.9	403.6	486.5	436.1
82.5°	332.7	363.9	383.1	347.3	318.1	216.1	203.5	209.4	263.1	296.9	189.5
85°	138.5	155.7	251.8	227.3	211.4	157.7	136.5	139.2	163.0	169.0	77.5
87.5°	61.6	65.6	110.7	104.1	89.5	54.3	58.3	63.6	86.8	82.2	29.8
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°	4277.4	4277.4	4277.4	4277.4	4277.4	4277.4	4277.4	4277.4	4277.4	4277.4	4277.4
2.5°	4281.4	4225.7	4130.3	4024.9	3938.8	3869.8	3800.2	3752.5	3696.9	3667.0	3651.8
5°	4284.7	4175.4	3974.6	3768.4	3584.2	3415.8	3255.5	3132.2	3016.9	2954.6	2937.3
7.5°	4298.6	4134.3	3809.5	3470.2	3142.8	2843.9	2613.2	2468.8	2364.7	2318.3	2305.1
10°	4309.9	4085.9	3605.4	3103.0	2657.7	2354.8	2175.8	2095.0	2059.2	2053.2	2047.3
12.5°	4336.4	4036.2	3390.7	2720.0	2280.5	2071.1	2008.8	2003.5	2013.5	2028.0	2028.0
15°	4378.2	3987.1	3145.4	2391.2	2040.6	1967.1	1979.7	2008.8	2036.0	2058.5	2061.8
17.5°	4408.7	3926.8	2881.7	2128.1	1912.7	1932.6	1977.7	2018.8	2046.6	2068.5	2070.5
20°	4430.5	3833.4	2600.0	1927.3	1839.1	1900.8	1957.1	1993.6	2012.8	2034.7	2038.0
22.5°	4419.3	3708.1	2350.1	1783.5	1779.5	1854.4	1908.1	1951.8	1937.2	1916.0	1929.9
25°	4364.9	3535.8	2093.0	1676.1	1716.5	1792.1	1858.4	1829.2	1780.2	1770.9	1776.2
27.5°	4268.2	3315.8	1855.1	1576.7	1643.6	1734.4	1730.5	1701.3	1684.1	1672.1	1679.4
30°	4164.1	3077.2	1646.9	1489.9	1562.8	1637.7	1622.4	1621.8	1604.5	1585.3	1594.6
32.5°	4061.4	2837.3	1481.9	1418.3	1501.8	1511.7	1544.9	1554.8	1521.0	1480.6	1477.9
35°	3971.9	2610.6	1356.7	1353.3	1428.2	1429.6	1477.9	1464.0	1379.9	1338.1	1338.1
37.5°	3905.0	2384.6	1261.2	1295.0	1331.5	1365.9	1390.5	1332.8	1318.9	1295.7	1295.0
40°	3875.8	2185.8	1201.6	1250.6	1263.2	1307.0	1244.0	1266.5	1273.2	1261.2	1261.2
42.5°	3845.3	2012.8	1149.9	1216.8	1214.8	1208.9	1177.1	1206.2	1232.7	1233.4	1231.4
45°	3814.8	1863.7	1104.2	1144.6	1172.4	1108.1	1114.1	1145.2	1182.4	1195.6	1195.6
47.5°	3781.0	1745.7	1062.4	1068.4	1111.4	1068.4	1063.7	1087.6	1131.3	1152.5	1157.2
50°	3706.8	1639.7	1014.7	1001.4	1013.4	1027.9	1031.9	1043.2	1091.6	1125.4	1133.3
52.5°	3604.1	1544.9	953.7	939.8	939.8	994.8	1013.4	1016.7	1057.8	1098.2	1106.1
55°	3518.6	1484.6	890.7	888.1	885.4	959.7	991.5	996.8	1025.3	1057.1	1061.1
57°	3524.5	1479.9	842.4	845.0	844.4	923.9	970.9	982.2	996.8	1024.0	1028.6
57.5°	3527.9	1483.2	831.8	833.1	832.4	913.9	965.0	977.6	988.8	1017.3	1022.0
60°	3577.6	1491.9	788.7	774.1	777.4	860.9	931.2	947.1	954.4	992.1	998.1
62.5°	3504.0	1453.4	754.2	719.1	719.1	805.2	884.1	909.3	920.6	971.6	981.5
65°	3290.6	1345.4	713.8	656.8	663.4	749.6	827.8	868.9	886.1	949.7	960.3
67.5°	2961.2	1220.1	670.7	601.1	607.7	691.3	769.5	813.9	841.0	925.9	934.5
70°	2532.4	1067.0	612.4	542.1	550.1	627.6	700.5	750.9	791.3	903.3	906.0
72.5°	1867.0	874.8	530.9	477.2	485.8	553.4	630.9	689.3	743.6	847.0	845.7
75°	1110.1	684.0	440.7	411.6	417.5	480.5	568.0	638.9	720.4	825.1	837.7
77.5°	673.4	515.0	359.2	344.6	351.9	416.2	522.9	598.5	710.5	778.1	774.1
80°	406.9	367.8	287.0	277.7	285.0	355.9	483.8	568.0	621.0	664.7	664.7
82.5°	212.7	224.7	210.8	203.5	213.4	289.0	440.1	495.7	548.8	471.2	440.1
85°	86.8	117.3	127.9	127.2	133.2	200.2	379.8	424.2	353.9	336.0	344.0
87.5°	29.2	49.7	62.3	53.7	56.3	125.9	263.1	204.8	243.2	169.7	161.0
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)