

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: P321129

Luminaire Tested: **GAN-SA5C-830-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321129
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-SA5C-830-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28819 lumens
Efficiency: N/A
Efficacy: 103.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

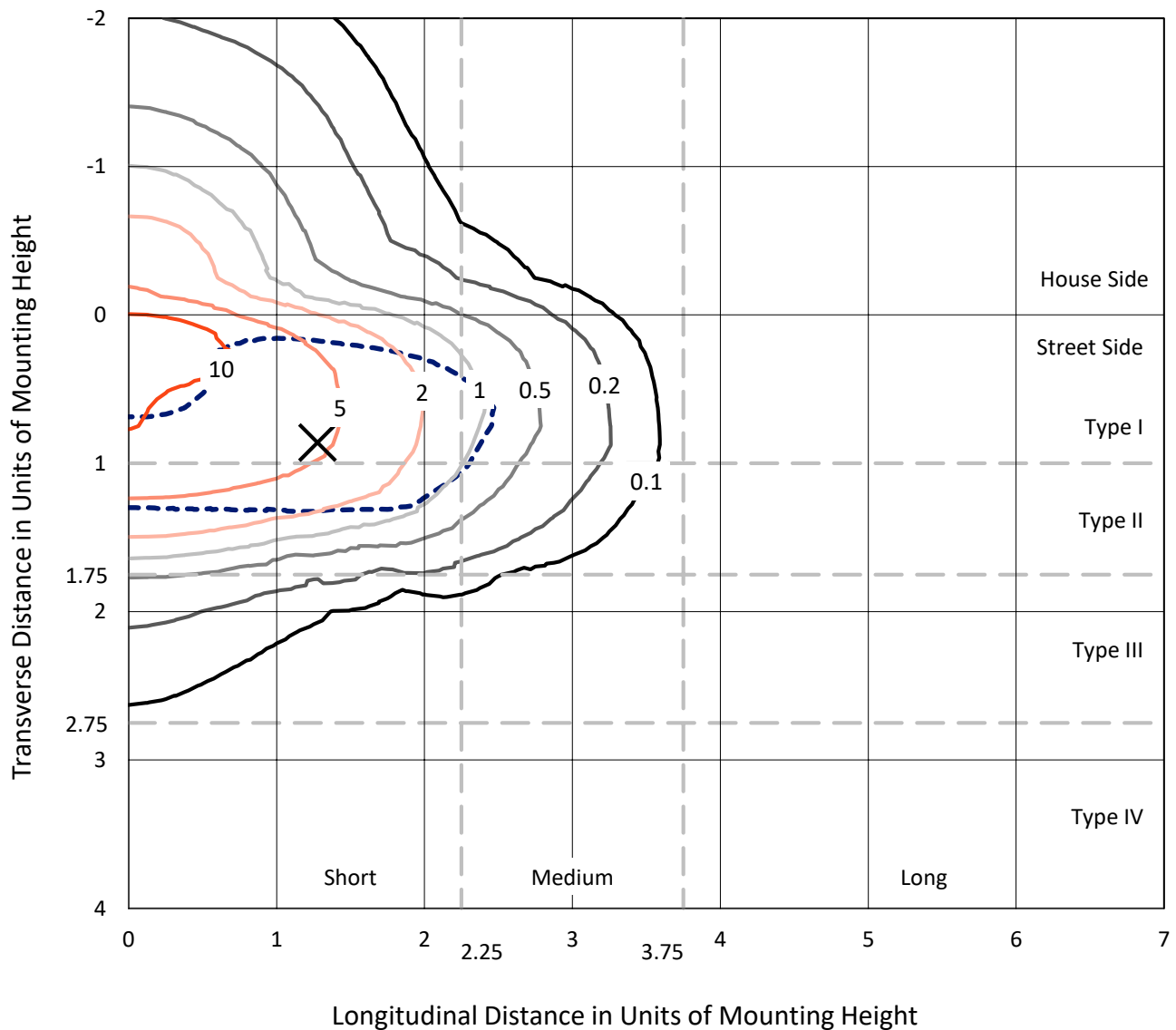
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

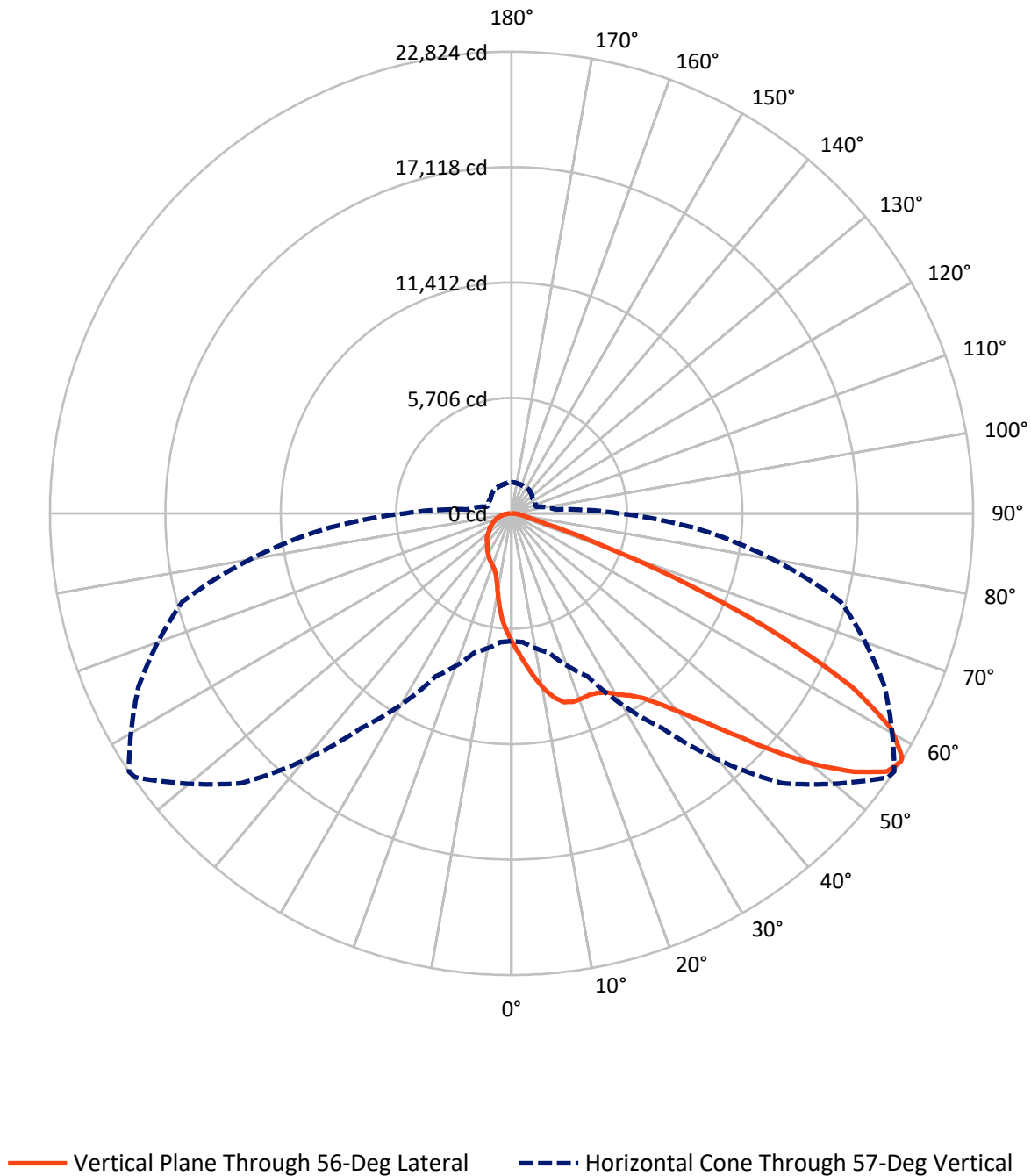
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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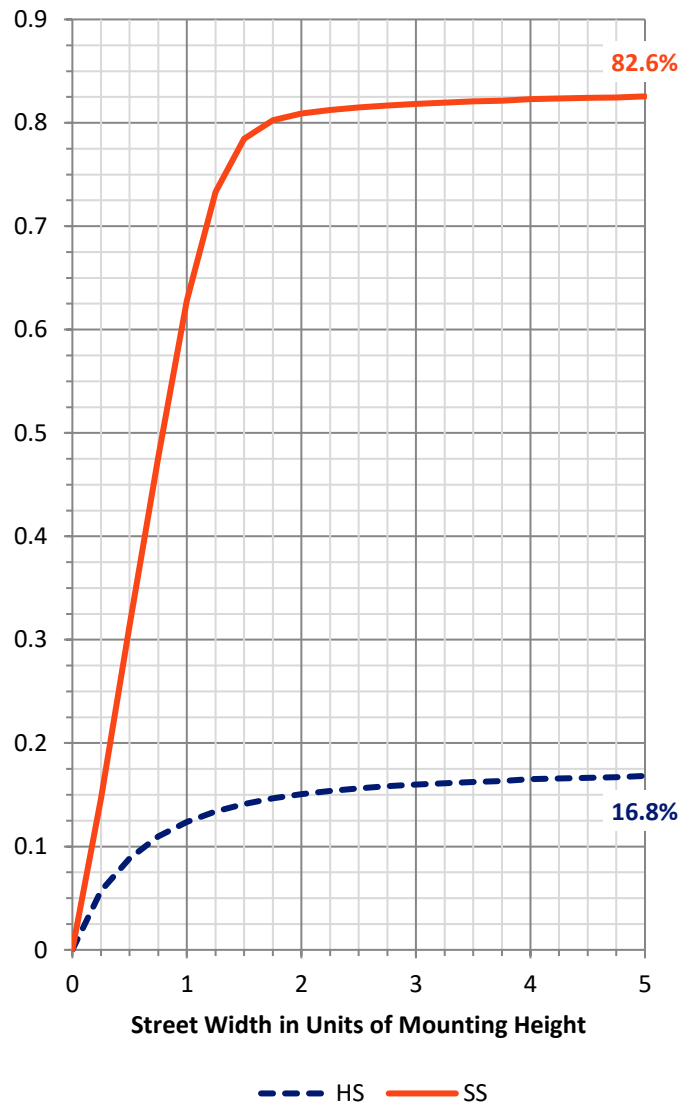
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4967.8	0.0	4967.8
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	23851.2	0.0	23851.2
	% Fixture	82.8	0.0	82.8
Total	Lumens	28819.0	0.0	28819.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	610.6	2.1
10°-20°	1726.3	6.0
20°-30°	2811.8	9.8
30°-40°	4203.4	14.6
40°-50°	6375.6	22.1
50°-60°	7146.0	24.8
60°-70°	4220.7	14.6
70°-80°	1382.9	4.8
80°-90°	341.7	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°	28819.0	100.0
0°-180°	28819.0	100.0

Coefficient of Utilization



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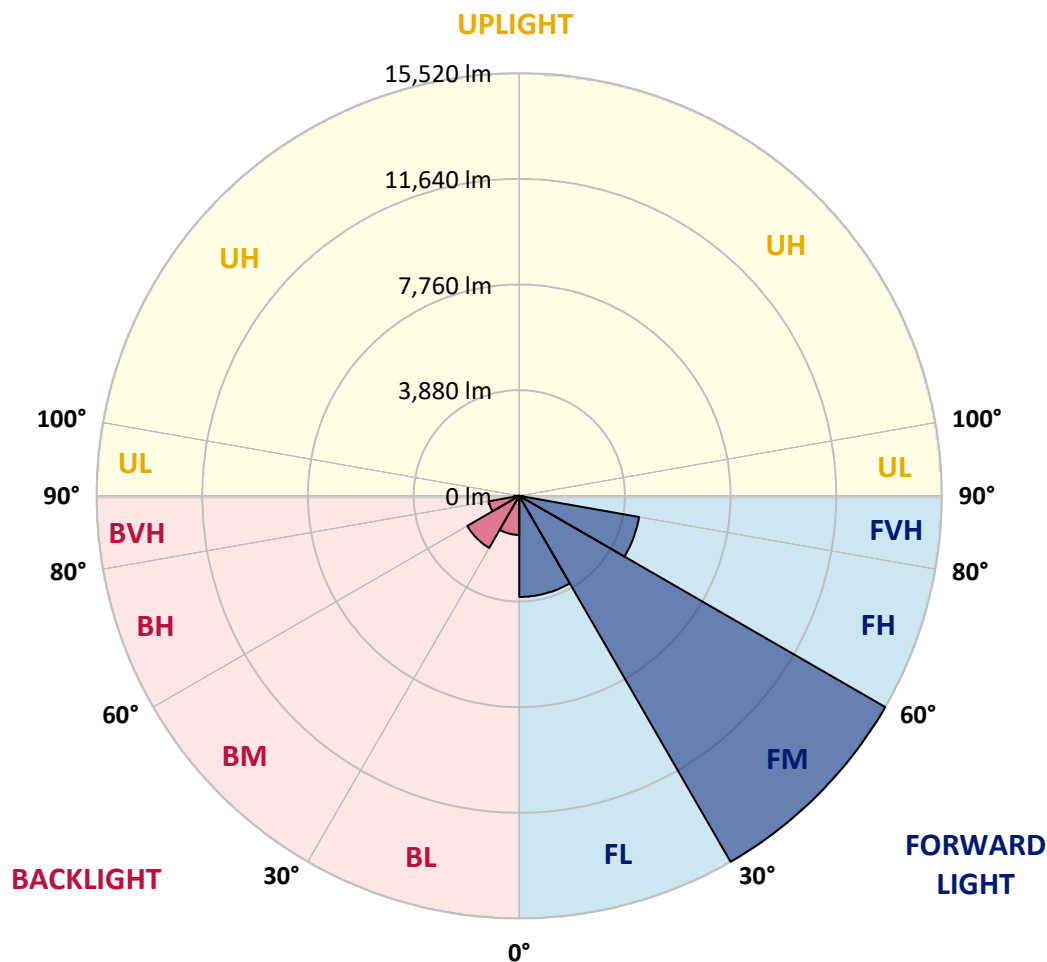
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3712.3	12.9			
FM	(30°-60°)	15520.0	53.9			
FH	(60°-80°)	4468.5	15.5			G2/5000
FVH	(80°-90°)	150.4	0.5			G2/225
BL	(0°-30°)	1436.5	5.0	B3/2500		
BM	(30°-60°)	2205.0	7.7	B2/2500		
BH	(60°-80°)	1135.1	3.9	B3/2500		G3/2500
BVH	(80°-90°)	191.2	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	6392.1	6392.1	6392.1	6392.1	6392.1	6392.1	6392.1	6392.1	6392.1	6392.1	6392.1
2.5°	7339.9	7407.2	7377.5	7274.5	7195.3	7083.4	6958.6	6921.0	6789.2	6641.7	6464.4
5°	8501.6	8468.0	8419.4	8259.0	8089.6	7892.5	7579.6	7530.1	7236.9	6903.1	6550.5
7.5°	9163.2	9160.3	9131.5	9037.5	8883.0	8625.4	8248.1	8189.7	7747.0	7210.2	6663.5
10°	9067.2	9060.2	9107.8	9205.8	9252.4	9198.9	8881.0	8822.5	8278.8	7549.9	6794.2
12.5°	8521.5	8525.4	8601.7	8807.7	9088.0	9424.7	9373.2	9344.5	8830.5	7934.1	6952.7
15°	8096.6	8105.5	8165.9	8345.2	8676.0	9287.0	9672.3	9682.2	9364.3	8358.0	7137.9
17.5°	7910.4	7929.2	7956.9	8082.7	8385.8	9012.7	9743.6	9797.1	9831.8	8797.8	7316.1
20°	7969.8	7987.6	7995.5	8075.8	8324.4	8846.3	9694.1	9790.2	10190.3	9211.8	7494.4
22.5°	8236.2	8247.1	8252.1	8272.9	8466.0	8893.8	9661.4	9762.4	10449.8	9583.2	7629.1
25°	8677.9	8670.0	8638.3	8611.6	8741.3	9082.0	9736.7	9832.8	10660.7	9919.9	7717.2
27.5°	9206.8	9196.9	9135.5	9062.2	9136.5	9375.2	9953.6	10029.8	10849.9	10234.9	7761.8
30°	9841.7	9815.9	9700.0	9612.9	9641.6	9814.9	10311.1	10380.4	11142.1	10592.4	7805.4
32.5°	10575.6	10547.8	10380.4	10235.8	10235.8	10380.4	10679.5	10737.0	11389.7	10996.5	7875.7
35°	11494.7	11460.0	11242.1	10999.4	10931.1	11004.4	11181.7	11222.3	11835.4	11505.5	8003.5
37.5°	12578.2	12531.6	12249.3	11924.5	11774.9	11771.0	11898.7	11981.9	12547.5	12174.1	8220.4
40°	13664.6	13631.9	13385.3	13129.8	12836.7	12742.6	12939.7	12965.4	13478.4	13004.0	8497.7
42.5°	14504.5	14498.6	14453.0	14486.7	14186.6	13996.4	14150.9	14171.7	14615.4	13902.3	8792.8
45°	14948.2	14958.1	15179.0	15668.2	15779.1	15640.5	15716.8	15722.7	15914.8	14808.6	9063.2
47.5°	14592.6	14644.1	15202.7	16297.1	17205.3	17665.9	17539.1	17612.4	17174.6	15587.0	9275.2
50°	13207.1	13270.5	14221.2	16016.8	17870.9	19625.9	19559.5	19542.7	18190.8	16157.5	9390.0
52.5°	11490.7	11540.2	12324.6	14560.0	17382.6	20709.4	21318.5	21231.3	19094.0	16584.3	9411.8
55°	8877.0	8954.3	9706.0	11652.1	15407.7	20295.4	22612.0	22533.7	19917.1	16808.2	9386.1
57°	6310.9	6392.1	7138.8	8892.9	12961.4	18862.3	22740.7	22823.9	20361.8	16845.8	9414.8
57.5°	5631.4	5714.6	6454.5	8158.0	12198.8	18344.3	22629.8	22768.4	20442.0	16839.9	9430.6
60°	2835.5	2867.2	3338.7	4553.9	7711.3	14830.3	21182.8	21540.3	20514.3	16548.7	9499.0
62.5°	1762.9	1740.1	1725.3	2097.7	3751.7	9834.7	18196.7	18885.1	19130.7	15843.5	9333.6
65°	1550.0	1507.4	1344.0	1314.3	1656.9	4776.7	13703.3	14560.0	16174.3	14732.3	8939.4
67.5°	1455.9	1414.3	1230.1	1119.2	1120.1	1893.7	8507.6	9472.2	12599.9	12853.5	8009.4
70°	1358.8	1321.2	1148.9	1018.1	953.8	1048.8	3914.1	4646.0	8213.4	10103.1	6694.2
72.5°	1234.0	1208.3	1044.9	910.2	841.8	785.4	1498.5	1769.9	4754.9	6785.3	4649.0
75°	1103.3	1079.5	939.9	811.1	727.9	618.0	843.8	909.2	2415.6	3471.4	2288.8
77.5°	959.7	945.8	835.9	717.1	650.7	512.0	597.2	628.9	1036.0	1488.6	1147.9
80°	763.6	790.3	730.9	638.8	577.4	410.0	422.9	443.7	603.2	727.0	651.7
82.5°	497.2	543.7	572.5	519.0	475.4	322.9	304.1	313.0	393.2	443.7	283.3
85°	207.0	232.7	376.4	339.7	315.9	235.7	204.0	208.0	243.6	252.6	115.9
87.5°	92.1	98.1	165.4	155.5	133.7	81.2	87.2	95.1	129.7	122.8	44.6
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°	6392.1	6392.1	6392.1	6392.1	6392.1	6392.1	6392.1	6392.1	6392.1	6392.1	6392.1
2.5°	6398.0	6314.8	6172.2	6014.7	5886.0	5783.0	5679.0	5607.7	5524.5	5479.9	5457.1
5°	6403.0	6239.6	5939.5	5631.4	5356.1	5104.6	4864.9	4680.7	4508.3	4415.2	4389.5
7.5°	6423.8	6178.2	5692.9	5185.8	4696.5	4249.8	3905.2	3689.3	3533.8	3464.4	3444.6
10°	6440.6	6105.9	5387.8	4637.1	3971.5	3518.9	3251.5	3130.7	3077.2	3068.3	3059.4
12.5°	6480.2	6031.6	5066.9	4064.6	3408.0	3095.0	3001.9	2994.0	3008.9	3030.6	3030.6
15°	6542.6	5958.3	4700.5	3573.4	3049.5	2939.5	2958.3	3001.9	3042.5	3076.2	3081.2
17.5°	6588.2	5868.2	4306.3	3180.2	2858.3	2888.0	2955.4	3016.8	3058.4	3091.1	3094.0
20°	6620.9	5728.5	3885.4	2880.1	2748.4	2840.5	2924.7	2979.1	3007.9	3040.5	3045.5
22.5°	6604.0	5541.3	3512.0	2665.2	2659.2	2771.2	2851.4	2916.7	2895.0	2863.3	2884.1
25°	6522.8	5283.8	3127.7	2504.7	2565.2	2678.1	2777.1	2733.5	2660.2	2646.4	2654.3
27.5°	6378.2	4955.0	2772.1	2356.2	2456.2	2591.9	2586.0	2542.4	2516.6	2498.8	2509.7
30°	6222.7	4598.5	2461.2	2226.4	2335.4	2447.3	2424.5	2423.5	2397.8	2369.1	2382.9
32.5°	6069.2	4239.9	2214.5	2119.5	2244.3	2259.1	2308.6	2323.5	2273.0	2212.6	2208.6
35°	5935.5	3901.2	2027.4	2022.4	2134.3	2136.3	2208.6	2187.8	2062.0	1999.6	1999.6
37.5°	5835.5	3563.5	1884.7	1935.3	1989.7	2041.2	2077.9	1991.7	1970.9	1936.2	1935.3
40°	5791.9	3266.4	1795.6	1868.9	1887.7	1953.1	1859.0	1892.7	1902.6	1884.7	1884.7
42.5°	5746.3	3007.9	1718.4	1818.4	1815.4	1806.5	1759.0	1802.5	1842.2	1843.1	1840.2
45°	5700.8	2785.0	1650.0	1710.4	1752.0	1656.0	1664.9	1711.4	1766.9	1786.7	1786.7
47.5°	5650.3	2608.7	1587.6	1596.5	1660.9	1596.5	1589.6	1625.3	1690.6	1722.3	1729.2
50°	5539.3	2450.3	1516.3	1496.5	1514.3	1536.1	1542.1	1558.9	1631.2	1681.7	1693.6
52.5°	5385.8	2308.6	1425.2	1404.4	1404.4	1486.6	1514.3	1519.3	1580.7	1641.1	1653.0
55°	5258.1	2218.5	1331.1	1327.1	1323.2	1434.1	1481.6	1489.6	1532.2	1579.7	1585.6
57°	5267.0	2211.6	1258.8	1262.8	1261.8	1380.6	1450.9	1467.8	1489.6	1530.2	1537.1
57.5°	5271.9	2216.5	1243.0	1244.9	1243.9	1365.8	1442.0	1460.8	1477.7	1520.3	1527.2
60°	5346.2	2229.4	1178.6	1156.8	1161.7	1286.5	1391.5	1415.3	1426.2	1482.6	1491.6
62.5°	5236.3	2172.0	1127.1	1074.6	1074.6	1203.3	1321.2	1358.8	1375.7	1451.9	1466.8
65°	4917.4	2010.5	1066.7	981.5	991.4	1120.1	1237.0	1298.4	1324.2	1419.3	1435.1
67.5°	4425.1	1823.3	1002.3	898.3	908.2	1033.0	1149.9	1216.2	1256.8	1383.6	1396.5
70°	3784.3	1594.6	915.1	810.2	822.0	937.9	1046.9	1122.1	1182.5	1349.9	1353.9
72.5°	2790.0	1307.3	793.3	713.1	726.0	827.0	942.9	1030.0	1111.2	1265.7	1263.8
75°	1658.9	1022.1	658.6	615.0	624.0	718.0	848.8	954.8	1076.6	1233.1	1251.9
77.5°	1006.3	769.5	536.8	515.0	525.9	622.0	781.4	894.3	1061.7	1162.7	1156.8
80°	608.1	549.7	428.8	415.0	425.9	531.8	723.0	848.8	928.0	993.4	993.4
82.5°	317.9	335.7	314.9	304.1	318.9	431.8	657.6	740.8	820.1	704.2	657.6
85°	129.7	175.3	191.1	190.2	199.1	299.1	567.5	633.9	528.9	502.1	514.0
87.5°	43.6	74.3	93.1	80.2	84.2	188.2	393.2	306.0	363.5	253.5	240.7
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)