

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: P317592

Luminaire Tested: **GAN-SA8A-830-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317592
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8A-830-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30920 lumens
Efficiency: N/A
Efficacy: 120.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 257
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

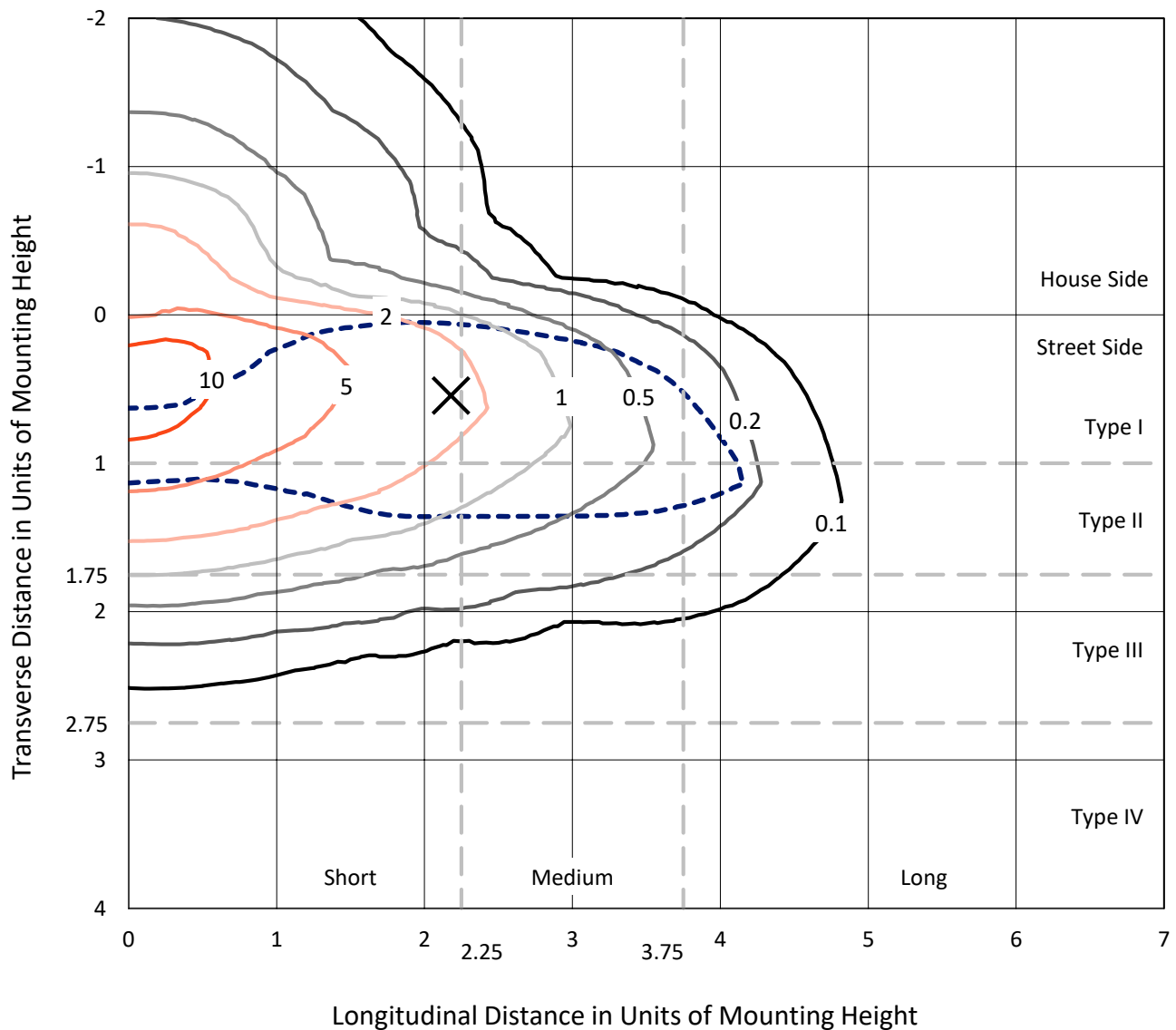


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Iso-Footcandle Lines of Horizontal Illumination

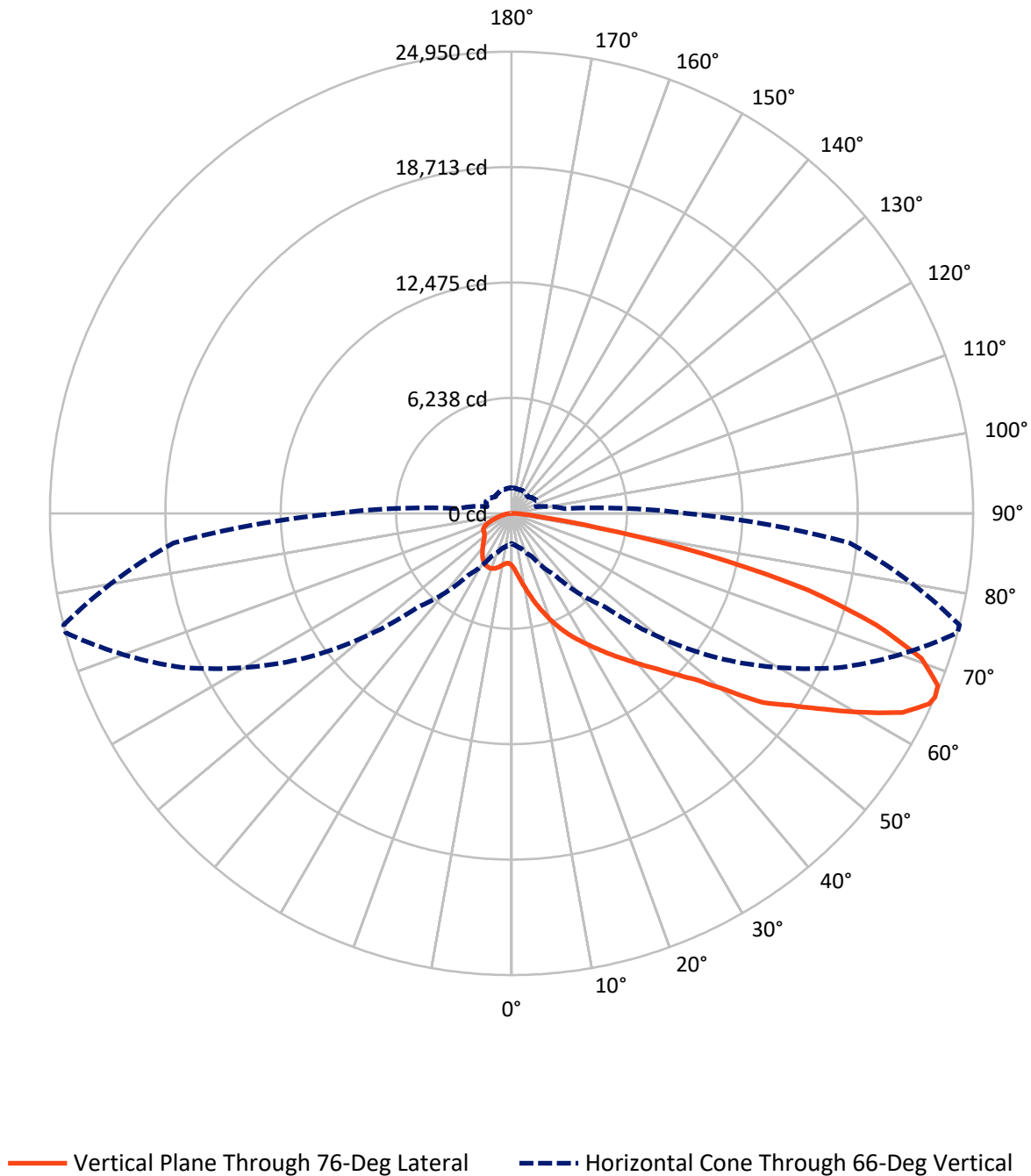
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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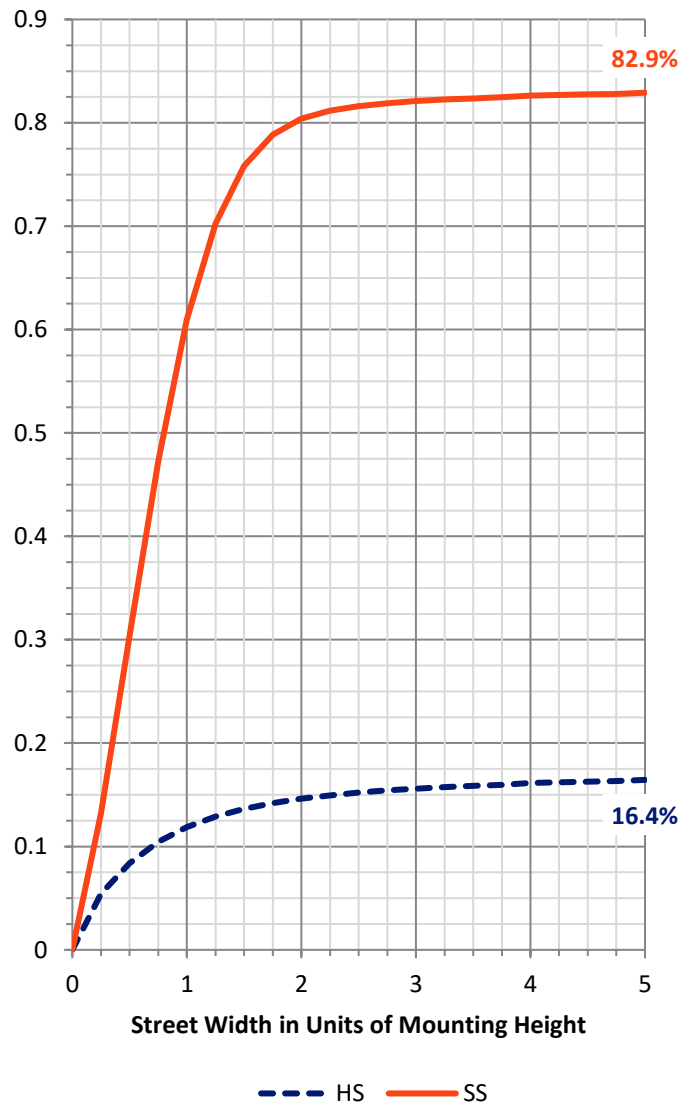
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5202.8	0.0	5202.8
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	25717.2	0.0	25717.2
	% Fixture	83.2	0.0	83.2
Total	Lumens	30920.0	0.0	30920.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	341.5	1.1
10°-20°	1348.4	4.4
20°-30°	2620.3	8.5
30°-40°	4276.9	13.8
40°-50°	5843.3	18.9
50°-60°	6806.2	22.0
60°-70°	6101.9	19.7
70°-80°	3083.6	10.0
80°-90°	498.0	1.6
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°	30920.0	100.0
0°-180°	30920.0	100.0

Coefficient of Utilization



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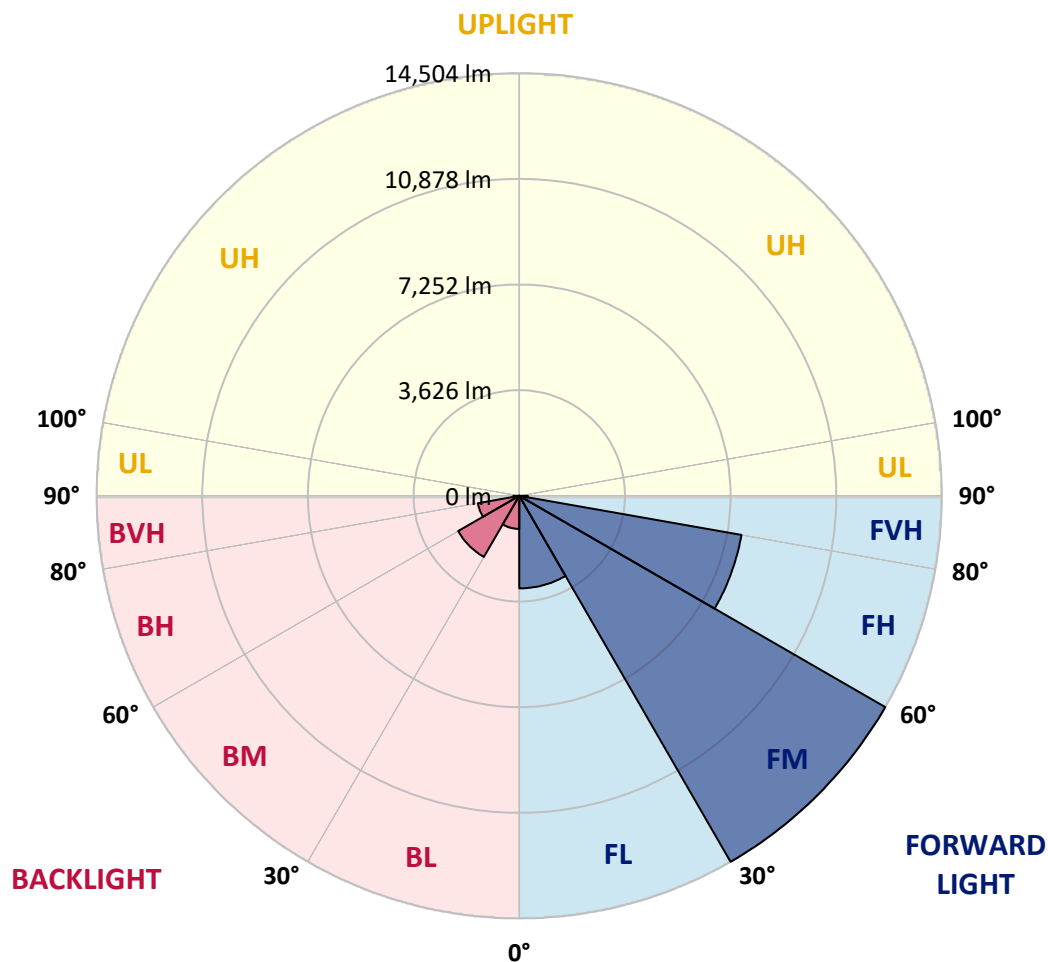
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3175.4	10.3			
FM	(30°-60°)	14503.6	46.9			
FH	(60°-80°)	7744.1	25.0			G4/12000
FVH	(80°-90°)	294.1	1.0			G3/500
BL	(0°-30°)	1134.7	3.7	B3/2500		
BM	(30°-60°)	2422.7	7.8	B2/2500		
BH	(60°-80°)	1441.4	4.7	B3/2500		G3/2500
BVH	(80°-90°)	203.9	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-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2823.7	2823.7	2823.7	2823.7	2823.7	2823.7	2823.7	2823.7	2823.7	2823.7	2823.7
2.5°	3748.5	3691.8	3686.5	3603.6	3584.7	3426.2	3309.7	3187.9	3049.4	3022.1	2912.9
5°	4815.0	4809.7	4737.3	4601.9	4495.9	4225.0	3957.4	3674.0	3363.2	3312.9	3067.2
7.5°	5774.4	5766.0	5710.4	5564.5	5411.2	5078.4	4696.4	4261.8	3757.9	3683.4	3276.1
10°	6502.9	6499.7	6480.8	6373.8	6243.6	5924.5	5502.5	4909.4	4216.6	4114.8	3537.5
12.5°	7065.5	7071.8	7084.4	7046.6	6984.7	6712.8	6280.4	5596.0	4705.8	4605.0	3828.3
15°	7446.6	7465.5	7530.5	7584.1	7616.6	7449.7	7030.9	6298.2	5253.7	5133.0	4150.5
17.5°	7638.7	7659.7	7772.0	7933.6	8082.7	8065.9	7733.1	6967.9	5779.6	5663.1	4496.9
20°	7804.5	7820.3	7946.2	8140.4	8403.9	8520.4	8333.6	7612.4	6355.9	6217.4	4864.3
22.5°	8285.3	8305.2	8343.0	8453.2	8686.3	8900.4	8810.1	8222.3	6883.9	6754.8	5212.8
25°	9213.2	9237.4	9155.5	9062.1	9106.1	9255.2	9272.0	8778.6	7419.3	7273.4	5587.6
27.5°	10331.1	10365.8	10226.2	9985.8	9775.9	9718.1	9698.2	9234.2	7930.5	7761.5	5958.1
30°	11426.0	11485.8	11304.2	10992.5	10607.2	10336.4	10135.9	9680.3	8434.3	8272.7	6307.6
32.5°	12495.6	12471.5	12208.0	11903.6	11452.2	11113.2	10628.2	10159.0	9001.2	8815.4	6655.1
35°	13228.3	13236.7	12992.1	12631.0	12200.7	11940.3	11287.4	10675.5	9579.6	9408.5	7049.8
37.5°	13851.8	13813.0	13535.9	13198.9	12828.4	12717.1	12059.0	11244.4	10206.2	10019.4	7469.7
40°	14059.7	14014.5	13832.9	13590.5	13293.4	13284.0	12910.3	11888.9	10914.8	10730.0	7943.1
42.5°	13933.7	13876.0	13801.5	13735.3	13644.0	13686.0	13710.1	12644.7	11693.7	11486.9	8491.0
45°	13468.7	13381.6	13434.1	13577.9	13776.3	14013.5	14432.3	13481.3	12566.0	12392.8	9134.5
47.5°	12753.9	12675.1	12838.9	13146.4	13686.0	14286.4	15115.7	14405.0	13607.3	13435.1	10050.9
50°	11748.2	11771.3	12005.4	12564.9	13380.5	14412.4	15957.5	15627.9	15120.9	14960.3	11301.1
52.5°	10098.1	10102.3	10761.5	11680.0	12838.9	14347.3	16424.7	17190.9	17187.8	16993.6	12491.4
55°	8565.6	8659.0	9180.7	10401.5	11961.3	14087.0	16751.1	17950.9	18545.1	18317.3	13601.0
57.5°	7068.7	7123.3	7617.7	8843.7	10709.0	13393.1	17086.0	18863.1	20109.1	19965.3	14980.3
60°	5366.1	5450.0	5961.2	7093.9	9107.2	12161.8	17117.5	19815.2	21978.6	21833.8	16520.2
62.5°	3482.9	3627.8	4106.4	5167.7	7169.5	10391.0	16386.9	20437.7	23750.5	23699.1	17886.9
65°	2001.8	2110.9	2443.7	3262.5	4946.2	8167.7	14649.6	20198.3	24841.2	24811.8	18398.1
66°	1635.4	1703.7	1958.7	2549.7	4081.2	7172.6	13639.8	19693.4	24949.3	24950.3	18339.3
67.5°	1307.9	1338.4	1452.8	1825.4	3011.6	5685.2	11835.4	18579.7	24814.9	24851.7	17960.4
70°	1082.2	1098.0	1133.7	1224.0	1643.8	3428.3	8400.8	15685.7	23466.0	23494.4	16481.3
72.5°	971.0	980.4	994.1	1006.7	1159.9	1915.7	5130.9	12548.1	20574.1	20610.9	14227.6
75°	879.6	884.9	882.8	883.8	973.1	1220.8	2651.5	9368.6	16635.6	16562.2	10899.0
77.5°	772.6	777.8	767.3	769.4	860.8	938.4	1319.5	6558.5	11226.5	10708.0	6140.7
80°	652.9	657.1	652.9	660.3	749.5	708.5	767.3	3689.7	4964.0	4695.3	2183.4
82.5°	493.4	511.2	523.8	553.2	617.2	503.9	513.3	1437.0	1511.6	1439.1	669.7
85°	216.2	263.5	394.7	423.0	464.0	302.3	337.0	585.7	615.1	596.2	243.5
87.5°	56.7	61.9	195.2	245.6	257.2	136.5	175.3	266.6	281.3	266.6	80.8
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°	2823.7	2823.7	2823.7	2823.7	2823.7	2823.7	2823.7	2823.7	2823.7	2823.7	2823.7
2.5°	2855.2	2803.7	2711.4	2629.5	2567.6	2525.6	2483.6	2462.6	2450.0	2437.4	2439.5
5°	2946.5	2842.6	2684.1	2571.8	2508.8	2468.9	2447.9	2439.5	2434.3	2421.7	2421.7
7.5°	3084.0	2937.1	2718.7	2603.3	2553.9	2523.5	2510.9	2506.7	2500.4	2485.7	2487.8
10°	3257.2	3051.5	2791.2	2678.8	2633.7	2600.1	2582.3	2576.0	2564.4	2547.6	2549.7
12.5°	3460.9	3193.2	2886.7	2769.1	2714.5	2669.4	2640.0	2622.2	2602.2	2580.2	2581.2
15°	3683.4	3347.5	2989.5	2849.9	2775.4	2712.4	2665.2	2634.7	2603.3	2576.0	2574.9
17.5°	3909.1	3496.6	3068.3	2894.0	2793.3	2710.3	2646.3	2599.1	2560.2	2526.6	2523.5
20°	4152.6	3630.9	3112.4	2889.8	2759.7	2661.0	2576.0	2517.2	2474.1	2440.6	2435.3
22.5°	4400.3	3756.9	3119.7	2846.8	2685.1	2564.4	2475.2	2410.1	2366.0	2331.4	2318.8
25°	4627.1	3854.5	3089.3	2763.9	2581.2	2451.0	2363.9	2297.8	2262.1	2221.2	2208.6
27.5°	4833.9	3922.7	3028.4	2657.8	2464.7	2336.6	2254.8	2198.1	2159.2	2127.7	2117.2
30°	5019.7	3959.5	2928.7	2531.9	2345.0	2228.5	2159.2	2120.4	2086.8	2046.9	2039.6
32.5°	5196.0	3959.5	2800.6	2394.4	2226.4	2133.0	2092.1	2067.9	2030.1	1991.3	1980.8
35°	5372.4	3935.3	2649.4	2250.6	2117.2	2064.8	2062.7	2034.3	1976.6	1924.1	1910.5
37.5°	5558.2	3886.0	2479.4	2116.2	2028.0	2034.3	2052.2	1989.2	1907.3	1832.8	1812.8
40°	5768.1	3817.8	2303.0	1999.7	1953.5	2020.7	2023.8	1924.1	1764.5	1696.3	1678.5
42.5°	6014.8	3749.5	2139.3	1896.8	1894.7	1979.7	1970.3	1783.4	1687.9	1653.3	1643.8
45°	6339.1	3710.7	1983.9	1799.2	1848.5	1913.6	1879.0	1705.8	1665.9	1645.9	1637.5
47.5°	6850.3	3730.6	1841.2	1721.5	1802.3	1847.5	1708.9	1674.3	1645.9	1621.8	1613.4
50°	7490.7	3719.1	1725.7	1668.0	1749.9	1778.2	1632.3	1633.3	1618.6	1591.3	1578.7
52.5°	7972.5	3628.8	1651.2	1637.5	1703.7	1655.4	1584.0	1593.4	1586.1	1546.2	1532.6
55°	8437.5	3551.1	1613.4	1626.0	1670.1	1502.1	1527.3	1550.4	1543.1	1504.2	1497.9
57.5°	9015.9	3536.4	1590.3	1629.1	1641.7	1425.5	1472.7	1503.2	1497.9	1481.1	1478.0
60°	9724.4	3540.6	1569.3	1634.4	1610.2	1368.8	1421.3	1460.1	1463.3	1460.1	1458.0
62.5°	10113.9	3426.2	1516.8	1619.7	1554.6	1319.5	1367.8	1424.4	1425.5	1431.8	1430.7
65°	9783.2	3084.0	1419.2	1568.3	1461.2	1278.5	1321.6	1383.5	1367.8	1396.1	1396.1
66°	9462.0	2886.7	1370.9	1534.7	1421.3	1262.8	1306.9	1362.5	1342.6	1381.4	1381.4
67.5°	8805.9	2553.9	1283.8	1463.3	1364.6	1240.7	1290.1	1327.9	1300.6	1358.3	1354.1
70°	7607.2	1975.5	1108.5	1301.6	1271.2	1208.2	1267.0	1258.6	1218.7	1306.9	1290.1
72.5°	6413.7	1501.1	890.1	1089.6	1129.5	1167.3	1234.4	1170.4	1120.0	1182.0	1145.2
75°	4976.6	1128.4	703.3	847.1	954.2	1103.2	1195.6	1068.6	996.2	989.9	969.9
77.5°	2690.4	774.7	557.4	646.6	757.9	1023.5	1169.4	959.4	850.3	825.1	809.3
80°	1065.4	503.9	405.2	490.2	530.1	908.0	1106.4	832.4	701.2	676.0	651.9
82.5°	439.8	298.1	261.4	328.6	345.4	776.8	993.0	682.3	541.6	749.5	795.7
85°	188.9	163.8	155.4	170.1	195.2	544.8	790.4	520.7	584.7	521.7	414.6
87.5°	56.7	69.3	66.1	65.1	71.4	130.2	420.9	289.7	429.3	162.7	121.8
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)