

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: P318196

Luminaire Tested: **GAN-SA2B-827-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318196
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2B-827-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8435 lumens
Efficiency: N/A
Efficacy: 99.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

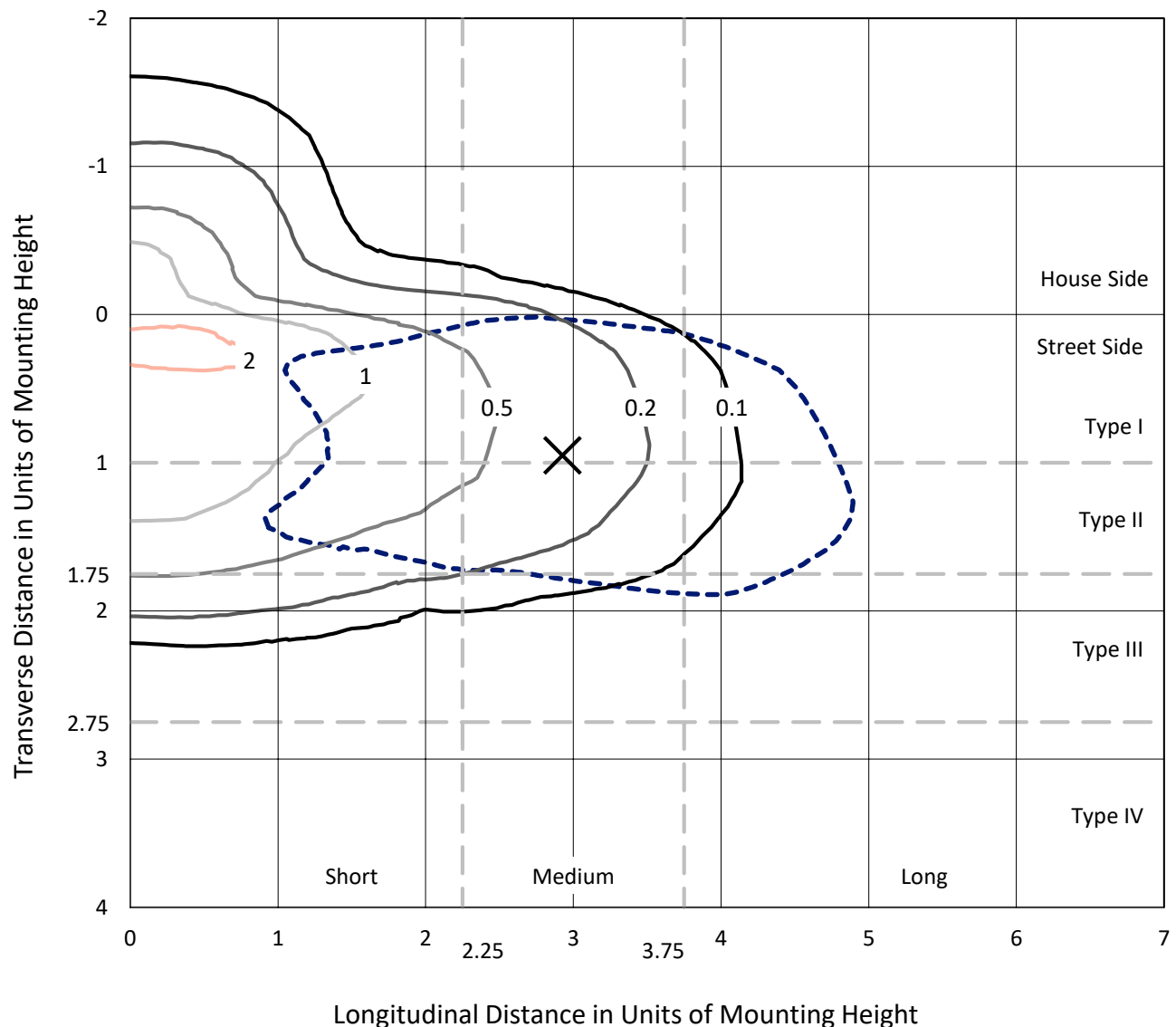
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

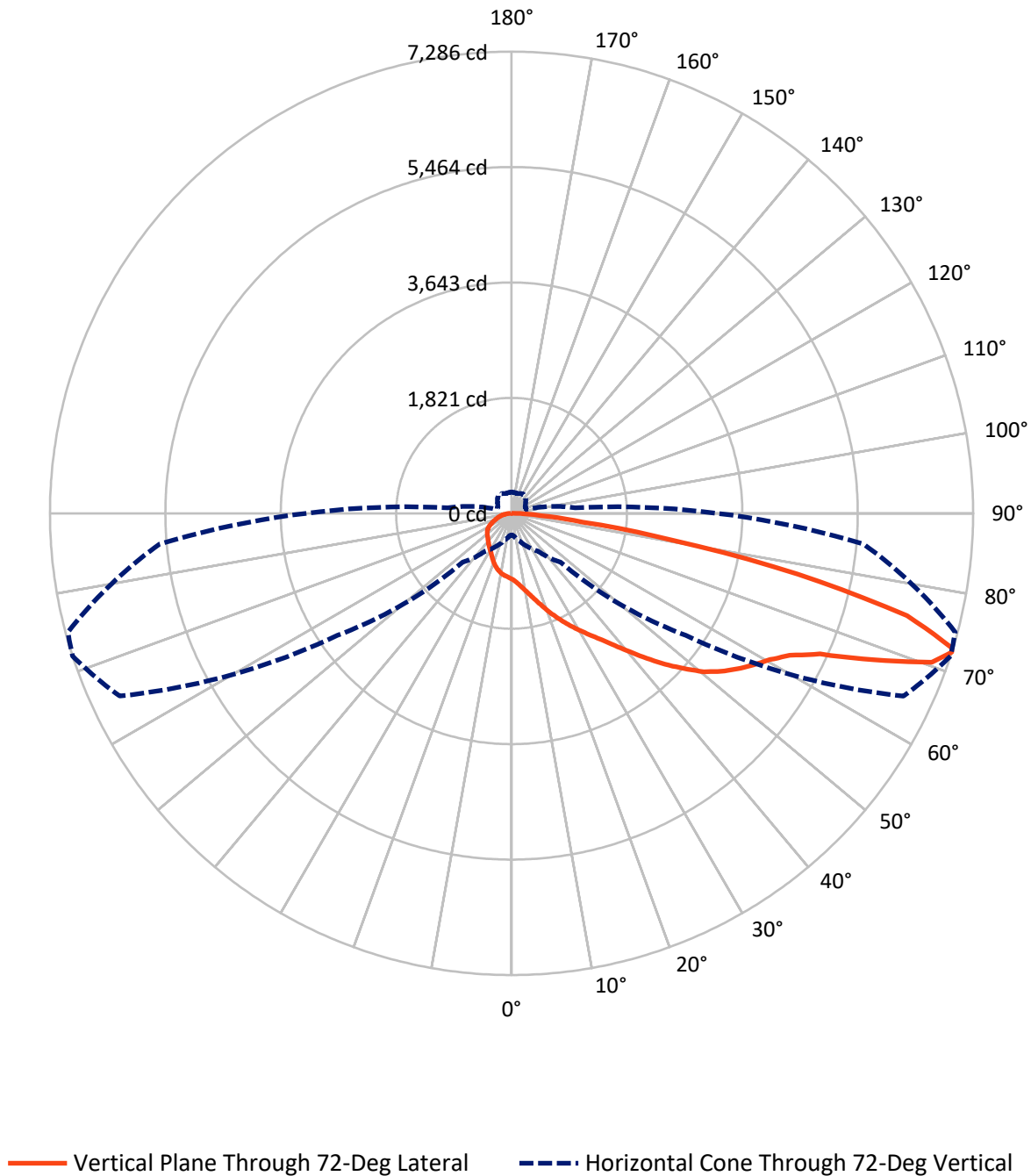
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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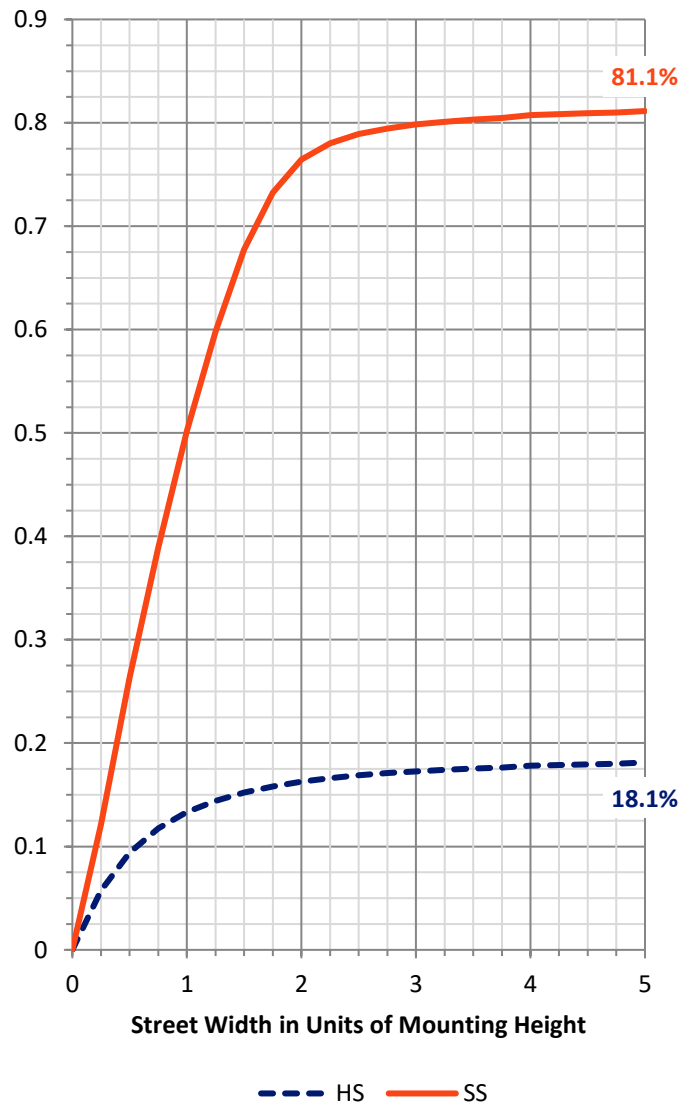
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1564.8	0.0	1564.8
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	6870.3	0.0	6870.3
	% Fixture	81.4	0.0	81.4
Total	Lumens	8435.0	0.0	8435.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.0	1.2
10°-20°	336.0	4.0
20°-30°	588.8	7.0
30°-40°	873.0	10.4
40°-50°	1276.9	15.1
50°-60°	1757.0	20.8
60°-70°	1956.0	23.2
70°-80°	1325.4	15.7
80°-90°	217.8	2.6
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°	8435.0	100.0
0°-180°	8435.0	100.0

Coefficient of Utilization



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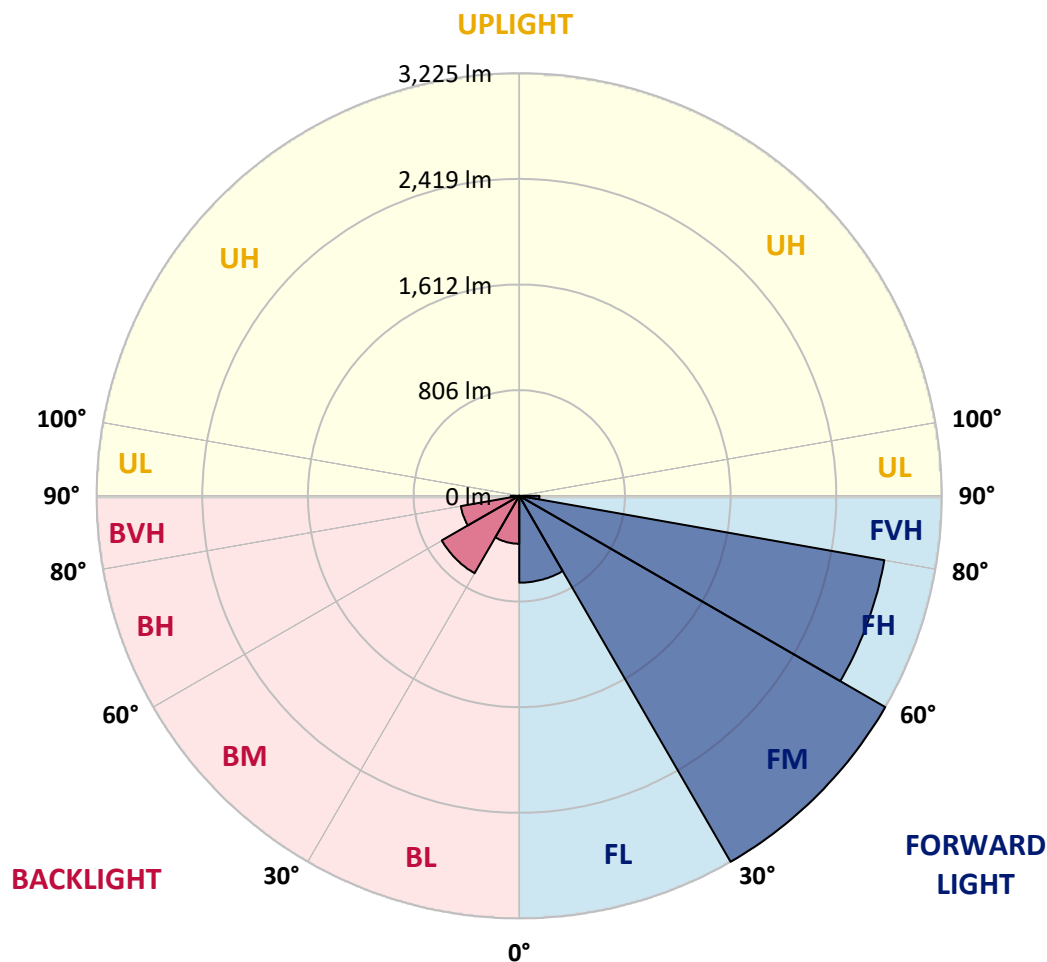
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	663.0	7.9			
FM	(30°-60°)	3224.8	38.2			
FH	(60°-80°)	2828.7	33.5			G2/5000
FVH	(80°-90°)	153.7	1.8			G2/225
BL	(0°-30°)	365.8	4.3	B1/500		
BM	(30°-60°)	682.1	8.1	B1/1000		
BH	(60°-80°)	452.7	5.4	B1/500		G1/500
BVH	(80°-90°)	64.2	0.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	1037.7	1037.7	1037.7	1037.7	1037.7	1037.7	1037.7	1037.7	1037.7	1037.7	1037.7
2.5°	1146.3	1144.6	1138.5	1138.5	1126.9	1117.0	1098.4	1085.9	1071.1	1065.9	1048.5
5°	1257.3	1257.9	1250.3	1245.1	1228.0	1207.0	1175.4	1146.6	1117.9	1106.3	1070.5
7.5°	1350.5	1349.4	1347.3	1343.0	1327.0	1305.5	1262.8	1220.1	1177.7	1160.3	1098.7
10°	1410.4	1413.0	1414.7	1416.7	1410.1	1394.7	1354.3	1302.3	1246.8	1223.0	1132.4
12.5°	1440.6	1445.2	1453.3	1467.3	1478.3	1476.6	1447.2	1392.1	1326.1	1296.2	1174.5
15°	1458.3	1464.4	1477.2	1502.1	1533.2	1550.9	1543.1	1493.1	1419.6	1382.8	1225.9
17.5°	1469.3	1474.2	1494.0	1527.4	1573.6	1620.6	1641.2	1599.4	1525.4	1483.3	1284.9
20°	1476.9	1480.6	1505.3	1544.5	1604.4	1679.3	1736.8	1726.3	1641.8	1587.2	1346.5
22.5°	1493.7	1496.9	1520.4	1559.9	1626.1	1722.9	1828.9	1844.6	1764.7	1702.8	1412.4
25°	1540.8	1540.8	1560.5	1588.1	1650.3	1760.6	1906.7	1976.1	1890.2	1818.1	1473.4
27.5°	1630.5	1629.6	1636.9	1646.5	1693.5	1799.0	1976.1	2092.3	2020.3	1941.6	1532.6
30°	1736.8	1742.6	1743.5	1738.8	1760.9	1846.9	2040.3	2214.9	2151.3	2066.4	1593.3
32.5°	1873.6	1877.4	1873.0	1857.6	1854.4	1914.8	2103.3	2343.2	2293.0	2196.9	1648.8
35°	2047.3	2040.0	2026.4	1995.0	1965.1	2005.7	2175.4	2471.6	2452.1	2354.6	1725.2
37.5°	2233.4	2233.7	2216.9	2145.7	2104.5	2121.9	2274.7	2617.1	2644.7	2542.2	1823.1
40°	2382.7	2390.6	2401.0	2307.5	2254.1	2278.2	2401.0	2785.9	2872.4	2764.7	1950.6
42.5°	2487.0	2496.0	2525.6	2467.0	2411.5	2456.2	2549.7	2965.9	3128.0	3021.4	2099.8
45°	2597.4	2602.3	2623.2	2597.9	2562.5	2663.3	2717.3	3152.4	3398.4	3295.0	2266.8
47.5°	2713.5	2718.8	2740.3	2723.4	2704.8	2856.7	2892.2	3328.1	3657.5	3595.6	2445.2
50°	2857.0	2860.5	2880.8	2850.3	2856.1	3002.5	3048.4	3489.3	3929.0	3865.7	2624.1
52.5°	3052.8	3053.6	3081.8	3054.2	3026.9	3109.4	3182.9	3641.2	4141.9	4112.0	2803.0
55°	3206.1	3215.4	3307.8	3302.0	3286.3	3206.4	3295.3	3785.8	4331.8	4346.1	2992.9
57.5°	3108.2	3144.5	3331.6	3463.4	3591.8	3447.8	3447.2	3948.8	4508.4	4575.8	3201.8
60°	2722.2	2771.6	3047.2	3339.7	3741.4	3867.7	3762.6	4147.7	4686.8	4803.5	3463.4
62.5°	1944.2	2025.5	2399.0	2866.0	3536.3	4146.0	4404.5	4463.4	4929.3	5067.2	3803.5
65°	982.8	1044.4	1357.5	1920.1	2825.4	3964.2	5102.1	5154.6	5350.7	5473.3	4327.2
67.5°	597.1	620.4	773.1	1067.9	1732.2	3087.9	5329.8	6306.8	6166.2	6231.3	5073.9
70°	440.0	457.1	552.4	709.2	996.2	1812.0	4631.0	7129.0	7036.7	7029.4	5625.7
72°	342.7	355.2	439.4	573.0	728.4	1087.1	3356.6	6825.5	7285.9	7249.3	5575.2
72.5°	325.0	336.0	412.7	539.3	688.3	985.4	3017.9	6620.8	7267.9	7251.3	5509.8
75°	255.9	263.7	305.5	417.1	538.8	559.1	1653.7	5130.8	6447.4	6715.4	4955.7
77.5°	211.7	212.9	235.0	303.5	420.0	395.3	812.3	3559.9	4616.8	4911.6	3510.5
80°	172.5	174.0	184.4	212.9	317.7	292.5	385.7	2047.0	2584.9	2588.1	1669.4
82.5°	137.4	137.7	149.3	155.7	228.3	209.1	221.0	961.1	1129.5	1086.5	600.0
85°	96.7	94.7	145.8	127.8	149.3	134.2	122.0	380.5	467.0	446.7	187.9
87.5°	32.2	33.4	64.8	82.8	87.1	76.1	54.3	145.8	176.3	174.8	59.5
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°	1037.7	1037.7	1037.7	1037.7	1037.7	1037.7	1037.7	1037.7	1037.7	1037.7	1037.7
2.5°	1043.0	1033.7	1020.0	1004.9	993.0	980.8	971.8	967.1	961.9	957.6	962.8
5°	1054.0	1036.6	1007.5	979.1	958.1	939.6	926.2	919.2	912.8	908.5	909.1
7.5°	1072.0	1043.8	995.0	953.5	924.5	904.4	890.8	886.1	882.1	880.9	882.3
10°	1091.2	1049.6	978.5	923.3	890.2	873.6	867.5	870.7	873.6	876.2	879.1
12.5°	1112.9	1054.9	954.4	887.9	859.7	853.3	859.4	873.3	883.5	889.6	893.4
15°	1141.4	1059.5	926.5	852.4	833.5	840.8	861.4	885.5	903.3	914.6	916.3
17.5°	1167.5	1059.2	890.8	816.7	812.3	833.5	864.6	898.6	922.4	938.4	941.6
20°	1194.6	1051.4	849.2	781.9	790.9	825.7	866.1	907.0	935.8	954.4	958.7
22.5°	1219.8	1037.7	803.6	750.2	772.8	815.3	860.6	902.1	930.8	945.9	950.6
25°	1237.0	1013.9	757.5	723.5	756.9	802.5	842.6	876.0	897.4	905.0	906.2
27.5°	1245.7	982.8	713.9	700.2	740.3	781.6	809.2	825.7	831.8	831.2	830.1
30°	1246.8	941.9	676.4	681.4	721.2	750.8	763.8	760.6	752.8	739.4	740.6
32.5°	1243.1	895.7	645.1	663.4	696.8	713.3	713.9	698.5	677.6	656.4	650.6
35°	1244.2	850.4	617.5	643.0	667.1	674.4	667.7	645.1	616.6	589.3	583.5
37.5°	1257.0	810.9	593.6	619.5	634.3	636.1	626.5	602.7	581.7	555.0	552.7
40°	1287.5	782.7	571.0	593.1	601.5	602.4	588.7	571.9	573.6	559.4	559.1
42.5°	1342.4	770.5	551.0	565.5	570.7	572.4	562.0	551.2	566.3	557.1	553.9
45°	1413.3	773.4	534.1	538.5	548.1	556.2	549.8	536.7	542.5	502.2	488.8
47.5°	1495.2	792.0	520.8	515.2	531.8	547.2	537.3	517.6	496.9	456.9	449.3
50°	1591.0	820.8	508.6	492.3	514.1	535.0	525.1	496.9	465.9	446.4	443.8
52.5°	1690.9	855.9	496.4	467.0	491.7	525.7	520.8	492.3	454.0	434.8	431.3
55°	1804.2	891.3	481.0	437.7	467.6	521.3	518.7	475.4	444.9	434.2	431.6
57.5°	1945.0	931.7	460.6	407.2	444.9	505.6	497.5	465.3	435.7	427.5	426.6
60°	2128.6	991.3	431.3	374.7	417.4	481.5	479.8	450.5	420.8	415.0	413.9
62.5°	2403.9	1089.7	390.9	342.1	386.6	440.6	456.6	430.4	405.2	404.9	405.4
65°	2830.9	1237.8	347.1	313.7	355.5	406.0	429.6	409.8	389.2	395.0	395.9
67.5°	3325.8	1360.7	304.1	285.8	323.8	373.2	405.2	389.2	368.0	383.1	383.4
70°	3490.5	1250.9	266.3	258.2	291.0	341.6	378.7	366.5	345.0	360.1	358.7
72°	3248.2	1009.8	241.9	237.3	266.3	315.4	355.2	345.3	324.1	334.3	330.5
72.5°	3171.8	962.8	235.8	232.1	259.6	308.7	349.1	340.1	318.9	327.6	324.1
75°	2829.4	836.2	202.7	203.6	226.5	276.2	314.8	311.9	290.1	291.0	289.9
77.5°	2052.2	613.1	170.8	176.6	192.8	242.8	280.3	278.5	254.7	250.4	249.5
80°	952.3	312.8	139.1	141.7	158.6	203.0	239.0	236.7	217.5	212.0	208.8
82.5°	326.2	148.7	104.6	106.3	122.9	163.5	207.4	205.9	189.9	179.2	172.5
85°	116.5	74.1	73.2	71.4	87.7	128.7	180.7	172.8	149.3	127.2	126.6
87.5°	37.8	31.7	37.8	37.5	51.1	87.1	131.3	111.8	108.3	90.0	88.3
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)