

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: P318187

Luminaire Tested: **GAN-SA3A-827-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318187
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-SA3A-827-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10263 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

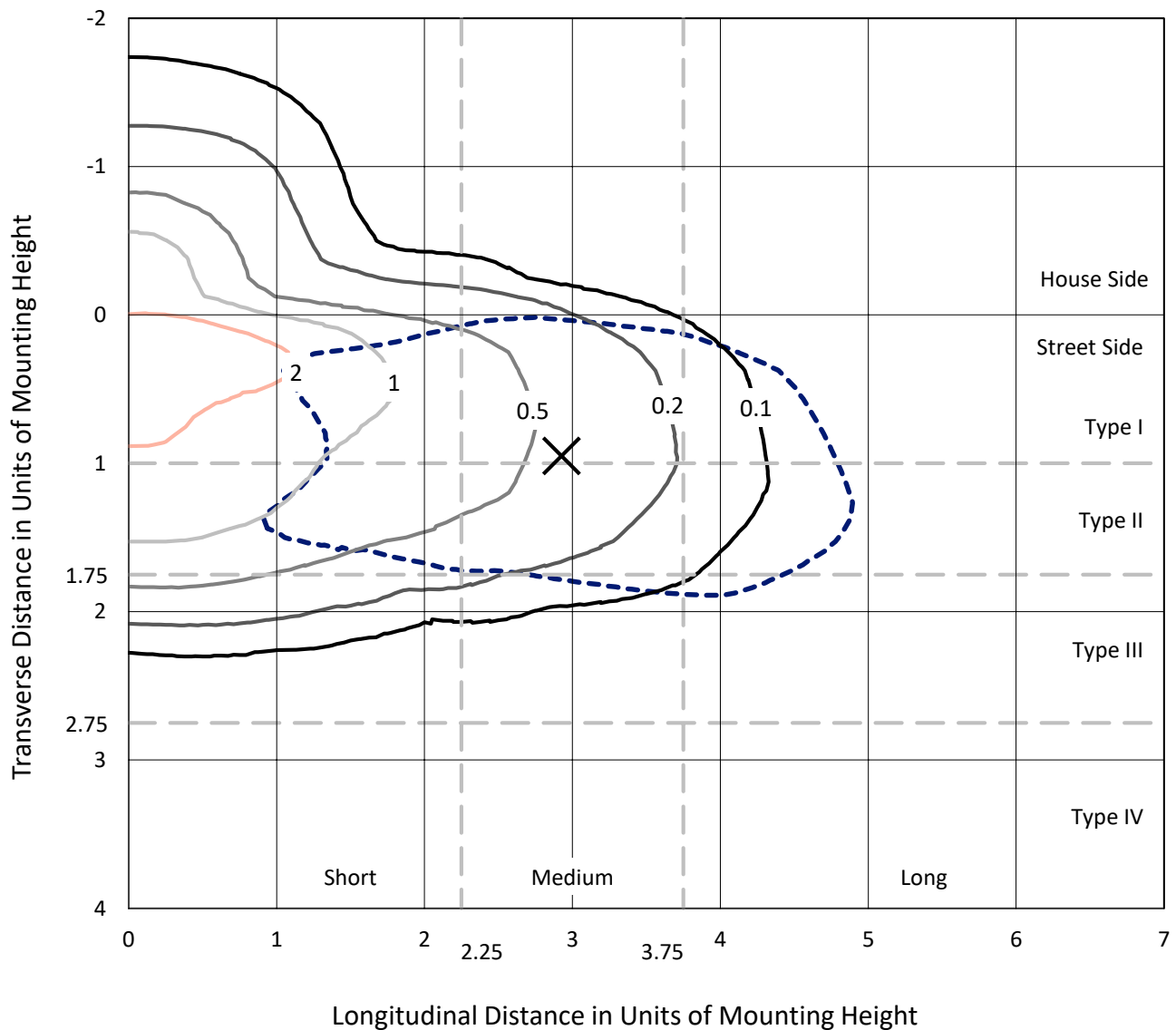
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

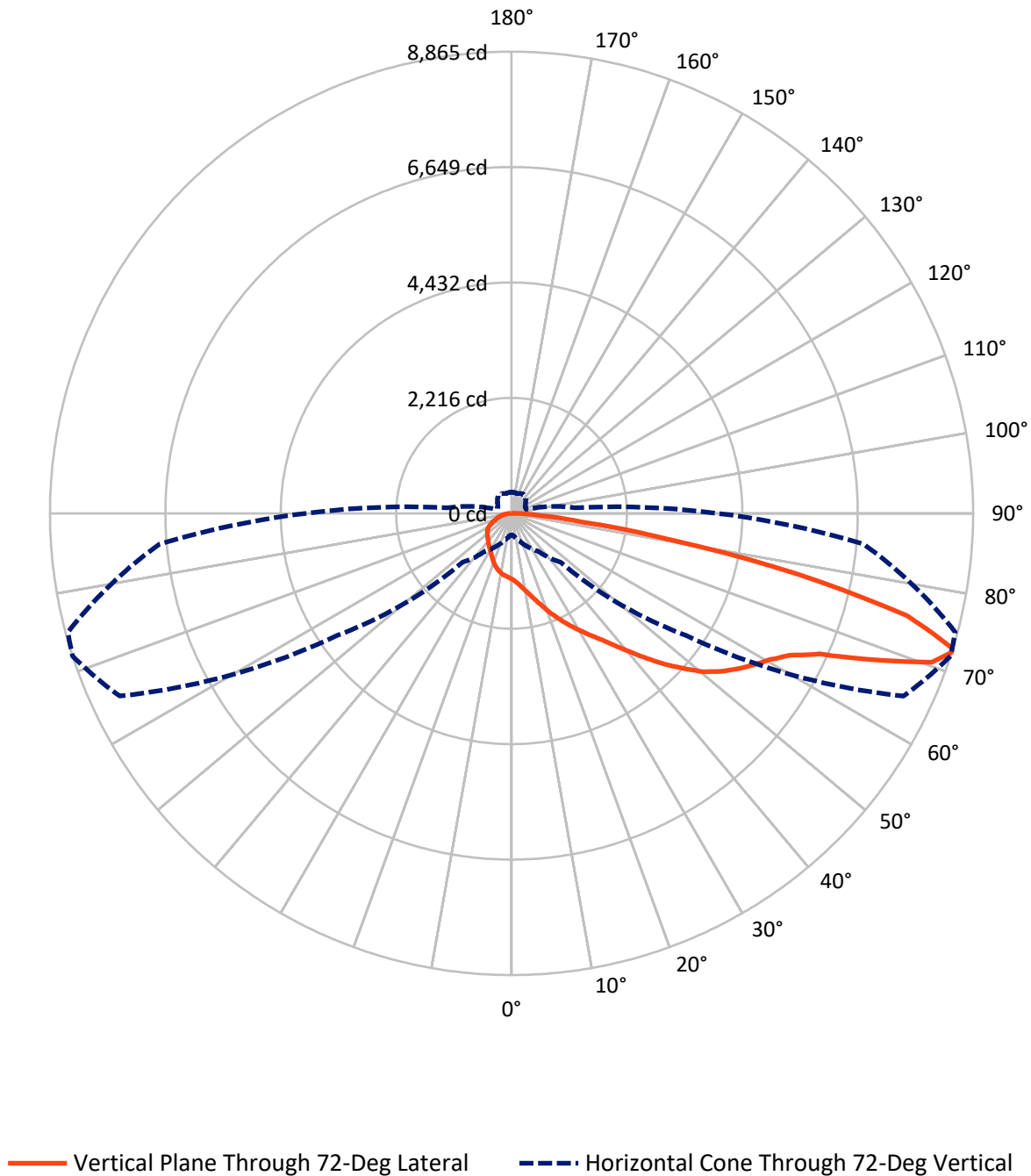
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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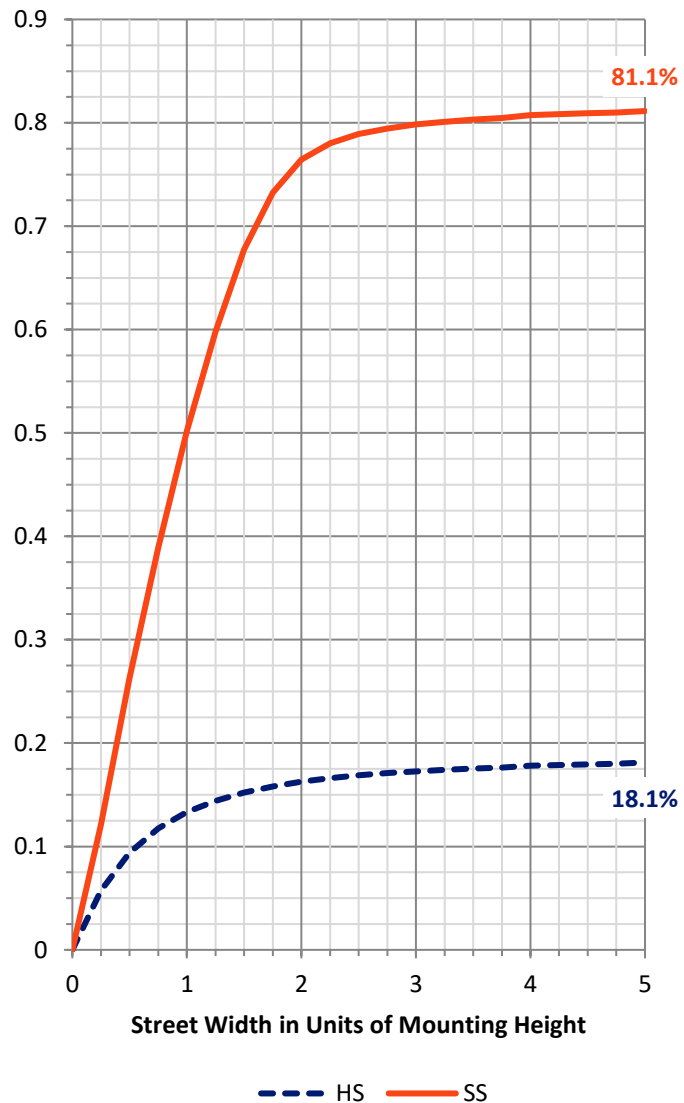
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1903.8	0.0	1903.8
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	8359.1	0.0	8359.1
	% Fixture	81.4	0.0	81.4
Total	Lumens	10263.0	0.0	10263.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.5	1.2
10°-20°	408.8	4.0
20°-30°	716.4	7.0
30°-40°	1062.2	10.4
40°-50°	1553.6	15.1
50°-60°	2137.7	20.8
60°-70°	2379.9	23.2
70°-80°	1612.6	15.7
80°-90°	265.0	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°	10263.0	100.0
0°-180°	10263.0	100.0

Coefficient of Utilization



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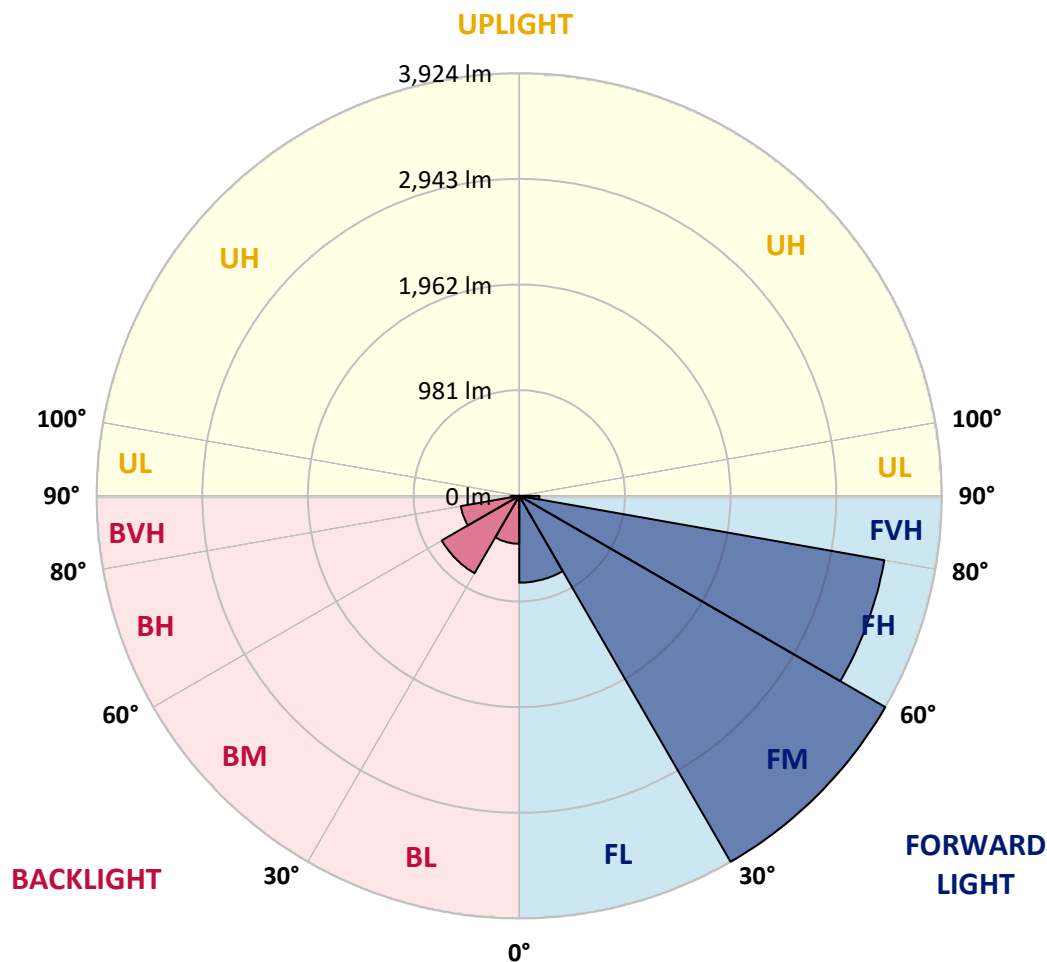
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	806.7	7.9			
FM	(30°-60°)	3923.7	38.2			
FH	(60°-80°)	3441.8	33.5			G2/5000
FVH	(80°-90°)	187.0	1.8			G2/225
BL	(0°-30°)	445.1	4.3	B1/500		
BM	(30°-60°)	829.9	8.1	B1/1000		
BH	(60°-80°)	550.8	5.4	B2/1000		G2/1000
BVH	(80°-90°)	78.1	0.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	1262.6	1262.6	1262.6	1262.6	1262.6	1262.6	1262.6	1262.6	1262.6	1262.6	1262.6
2.5°	1394.8	1392.7	1385.2	1385.2	1371.1	1359.1	1336.5	1321.3	1303.3	1296.9	1275.7
5°	1529.8	1530.5	1521.3	1514.9	1494.1	1468.6	1430.1	1395.1	1360.1	1346.0	1302.5
7.5°	1643.2	1641.8	1639.3	1634.0	1614.6	1588.4	1536.5	1484.5	1432.9	1411.7	1336.8
10°	1716.0	1719.2	1721.3	1723.8	1715.6	1696.9	1647.8	1584.5	1517.0	1488.1	1377.8
12.5°	1752.8	1758.4	1768.3	1785.3	1798.7	1796.6	1760.9	1693.7	1613.5	1577.1	1429.1
15°	1774.3	1781.7	1797.3	1827.7	1865.5	1887.0	1877.5	1816.7	1727.3	1682.4	1491.6
17.5°	1787.7	1793.7	1817.8	1858.4	1914.6	1971.8	1996.9	1946.0	1855.9	1804.7	1563.3
20°	1796.9	1801.5	1831.6	1879.3	1952.1	2043.2	2113.2	2100.5	1997.6	1931.2	1638.3
22.5°	1817.4	1821.3	1849.9	1898.0	1978.6	2096.2	2225.2	2244.3	2147.1	2071.9	1718.5
25°	1874.7	1874.7	1898.7	1932.3	2007.9	2142.2	2319.9	2404.4	2299.8	2212.1	1792.7
27.5°	1983.9	1982.8	1991.6	2003.3	2060.5	2188.8	2404.4	2545.7	2458.1	2362.3	1864.8
30°	2113.2	2120.3	2121.3	2115.7	2142.5	2247.1	2482.5	2694.9	2617.5	2514.3	1938.6
32.5°	2279.6	2284.2	2278.9	2260.2	2256.3	2329.8	2559.2	2851.0	2789.9	2672.9	2006.1
35°	2491.0	2482.1	2465.5	2427.3	2391.0	2440.4	2646.8	3007.2	2983.6	2864.8	2099.1
37.5°	2717.5	2717.8	2697.3	2610.8	2560.6	2581.8	2767.7	3184.3	3217.9	3093.1	2218.1
40°	2899.1	2908.6	2921.4	2807.6	2742.6	2771.9	2921.4	3389.6	3494.9	3363.8	2373.3
42.5°	3026.0	3036.9	3073.0	3001.6	2934.1	2988.5	3102.3	3608.7	3805.9	3676.2	2554.9
45°	3160.3	3166.3	3191.7	3161.0	3117.8	3240.5	3306.2	3835.6	4134.9	4009.1	2758.1
47.5°	3301.6	3308.0	3334.1	3313.6	3291.0	3475.8	3518.9	4049.3	4450.1	4374.8	2975.1
50°	3476.2	3480.4	3505.1	3468.0	3475.1	3653.2	3709.0	4245.5	4780.5	4703.5	3192.8
52.5°	3714.3	3715.4	3749.7	3716.1	3682.9	3783.3	3872.7	4430.3	5039.5	5003.1	3410.4
55°	3900.9	3912.2	4024.6	4017.5	3998.5	3901.3	4009.4	4606.3	5270.6	5287.9	3641.6
57.5°	3781.8	3826.0	4053.6	4214.0	4370.2	4194.9	4194.2	4804.5	5485.5	5567.5	3895.6
60°	3312.2	3372.3	3707.6	4063.5	4552.2	4705.9	4578.0	5046.6	5702.4	5844.5	4214.0
62.5°	2365.5	2464.5	2918.9	3487.1	4302.7	5044.5	5359.0	5430.7	5997.5	6165.4	4627.8
65°	1195.8	1270.7	1651.7	2336.2	3437.7	4823.2	6207.8	6271.7	6510.3	6659.4	5265.0
67.5°	726.5	754.8	940.7	1299.4	2107.5	3757.1	6484.8	7673.6	7502.6	7581.7	6173.5
70°	535.4	556.2	672.1	862.9	1212.1	2204.7	5634.6	8674.0	8561.6	8552.8	6844.9
72°	417.0	432.2	534.7	697.2	886.3	1322.7	4084.0	8304.7	8864.8	8820.3	6783.4
72.5°	395.4	408.9	502.1	656.2	837.5	1199.0	3671.9	8055.6	8842.9	8822.8	6703.9
75°	311.3	320.9	371.8	507.4	655.5	680.3	2012.1	6242.8	7844.6	8170.8	6029.7
77.5°	257.6	259.0	285.9	369.3	511.0	480.9	988.4	4331.3	5617.3	5976.0	4271.3
80°	209.9	211.7	224.4	259.0	386.6	355.9	469.3	2490.6	3145.1	3148.9	2031.2
82.5°	167.1	167.5	181.6	189.4	277.8	254.4	268.9	1169.3	1374.3	1322.0	730.1
85°	117.7	115.2	177.4	155.5	181.6	163.3	148.4	462.9	568.2	543.5	228.6
87.5°	39.2	40.6	78.8	100.7	106.0	92.6	66.1	177.4	214.5	212.7	72.4
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°	1262.6	1262.6	1262.6	1262.6	1262.6	1262.6	1262.6	1262.6	1262.6	1262.6	1262.6
2.5°	1269.0	1257.7	1241.1	1222.7	1208.2	1193.4	1182.4	1176.7	1170.4	1165.1	1171.4
5°	1282.4	1261.2	1225.9	1191.2	1165.8	1143.2	1126.9	1118.4	1110.7	1105.4	1106.1
7.5°	1304.3	1270.0	1210.7	1160.1	1124.8	1100.4	1083.8	1078.2	1073.2	1071.8	1073.6
10°	1327.6	1277.1	1190.5	1123.4	1083.1	1063.0	1055.5	1059.4	1063.0	1066.1	1069.7
12.5°	1354.1	1283.5	1161.2	1080.3	1046.0	1038.2	1045.6	1062.6	1075.0	1082.4	1087.0
15°	1388.8	1289.1	1127.3	1037.2	1014.2	1023.0	1048.1	1077.4	1099.0	1112.8	1114.9
17.5°	1420.6	1288.8	1083.8	993.7	988.4	1014.2	1052.0	1093.3	1122.3	1141.8	1145.6
20°	1453.4	1279.2	1033.3	951.3	962.2	1004.7	1053.8	1103.6	1138.6	1161.2	1166.5
22.5°	1484.2	1262.6	977.8	912.8	940.3	991.9	1047.1	1097.6	1132.6	1150.9	1156.6
25°	1505.0	1233.6	921.6	880.3	920.9	976.4	1025.1	1065.8	1091.9	1101.1	1102.5
27.5°	1515.6	1195.8	868.6	852.0	900.8	950.9	984.5	1004.7	1012.1	1011.4	1010.0
30°	1517.0	1146.0	823.0	829.0	877.4	913.5	929.4	925.5	916.0	899.7	901.1
32.5°	1512.5	1089.8	784.9	807.1	847.8	867.9	868.6	849.9	824.4	798.6	791.6
35°	1513.9	1034.7	751.3	782.4	811.7	820.5	812.4	784.9	750.2	717.0	709.9
37.5°	1529.4	986.6	722.3	753.8	771.8	773.9	762.2	733.3	707.8	675.3	672.5
40°	1566.5	952.4	694.7	721.6	731.8	732.9	716.3	695.8	697.9	680.6	680.3
42.5°	1633.3	937.5	670.4	688.0	694.4	696.5	683.8	670.7	689.1	677.8	673.9
45°	1719.5	941.0	649.9	655.2	666.8	676.7	668.9	653.0	660.1	611.0	594.7
47.5°	1819.2	963.7	633.6	626.9	647.0	665.8	653.7	629.7	604.6	555.9	546.7
50°	1935.8	998.6	618.8	599.0	625.5	650.9	638.9	604.6	566.8	543.1	540.0
52.5°	2057.4	1041.4	603.9	568.2	598.3	639.6	633.6	599.0	552.3	529.0	524.8
55°	2195.2	1084.5	585.2	532.5	568.9	634.3	631.1	578.5	541.4	528.3	525.1
57.5°	2366.6	1133.6	560.5	495.4	541.4	615.2	605.3	566.1	530.1	520.2	519.1
60°	2589.9	1206.1	524.8	455.9	507.8	585.9	583.8	548.1	512.0	505.0	503.6
62.5°	2924.9	1325.9	475.6	416.3	470.3	536.1	555.5	523.7	493.0	492.6	493.3
65°	3444.4	1506.1	422.3	381.6	432.5	494.0	522.6	498.6	473.5	480.6	481.7
67.5°	4046.5	1655.6	370.0	347.7	394.0	454.1	493.0	473.5	447.7	466.1	466.5
70°	4246.9	1522.0	324.0	314.2	354.1	415.6	460.8	446.0	419.8	438.2	436.4
72°	3952.2	1228.7	294.4	288.7	324.0	383.8	432.2	420.2	394.4	406.7	402.1
72.5°	3859.2	1171.4	286.9	282.3	315.9	375.6	424.8	413.8	388.0	398.6	394.4
75°	3442.6	1017.4	246.7	247.7	275.6	336.1	383.1	379.5	353.0	354.1	352.7
77.5°	2497.0	746.0	207.8	214.9	234.6	295.4	341.0	338.9	309.9	304.6	303.6
80°	1158.7	380.6	169.3	172.4	192.9	247.0	290.8	288.0	264.7	258.0	254.1
82.5°	396.8	180.9	127.2	129.3	149.5	199.0	252.3	250.5	231.1	218.0	209.9
85°	141.7	90.1	89.1	86.9	106.7	156.5	219.8	210.3	181.6	154.8	154.1
87.5°	45.9	38.5	45.9	45.6	62.2	106.0	159.7	136.1	131.8	109.5	107.4
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)