

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: P318216

Luminaire Tested: **GAN-SA2D-827-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318216
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-SA2D-827-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11453 lumens
Efficiency: N/A
Efficacy: 88.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
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

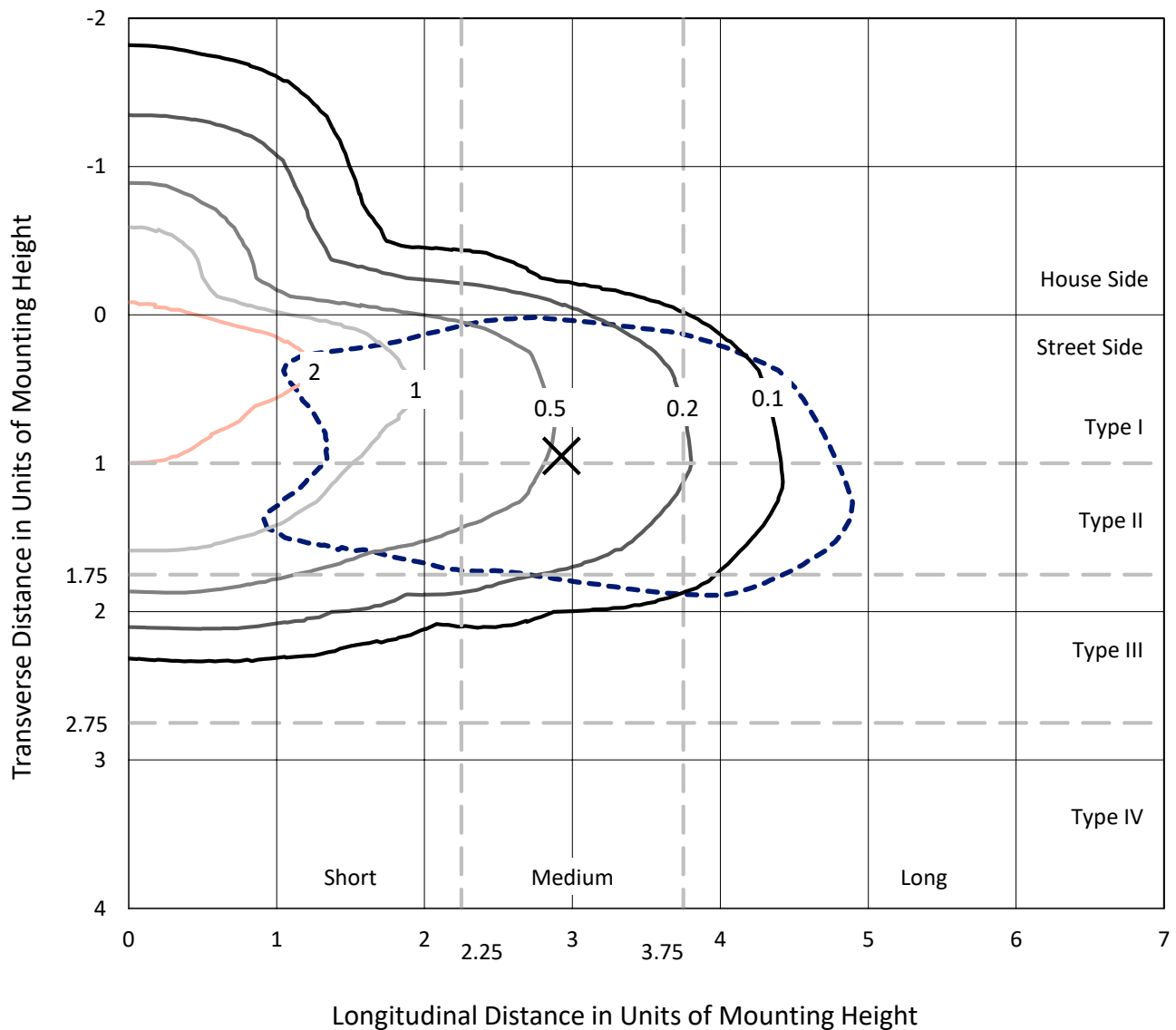


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Iso-Footcandle Lines of Horizontal Illumination

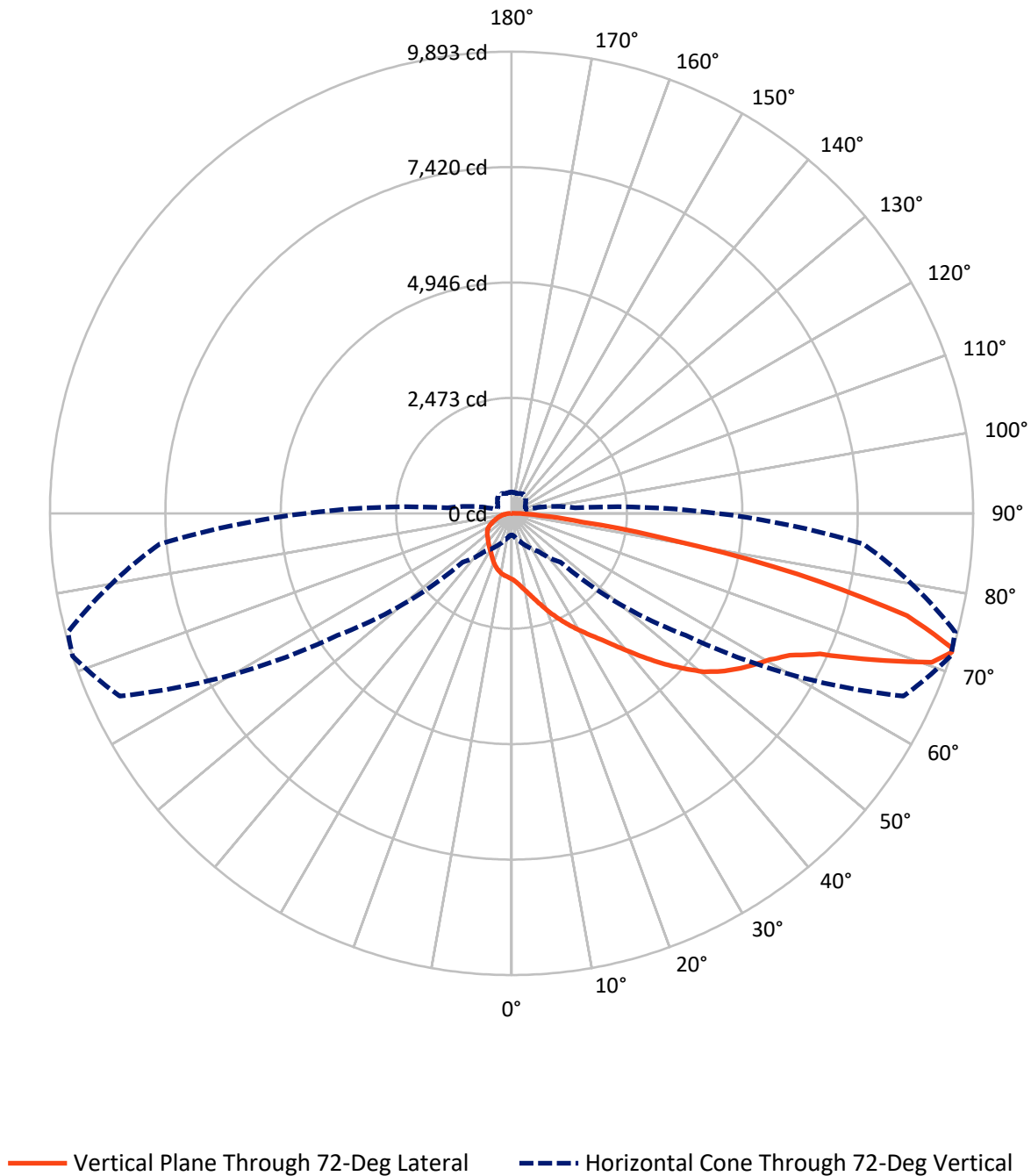
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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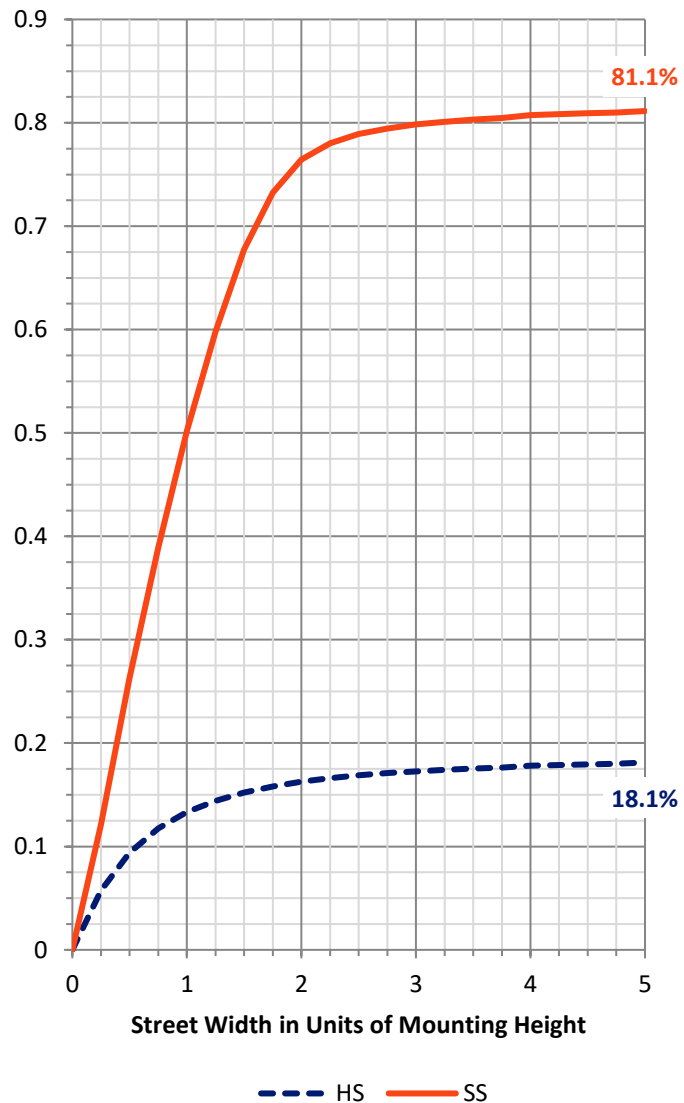
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2124.6	0.0	2124.6
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	9328.4	0.0	9328.4
	% Fixture	81.4	0.0	81.4
Total	Lumens	11453.0	0.0	11453.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.2	1.2
10°-20°	456.3	4.0
20°-30°	799.5	7.0
30°-40°	1185.4	10.4
40°-50°	1733.7	15.1
50°-60°	2385.6	20.8
60°-70°	2655.9	23.2
70°-80°	1799.6	15.7
80°-90°	295.8	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°	11453.0	100.0
0°-180°	11453.0	100.0

Coefficient of Utilization



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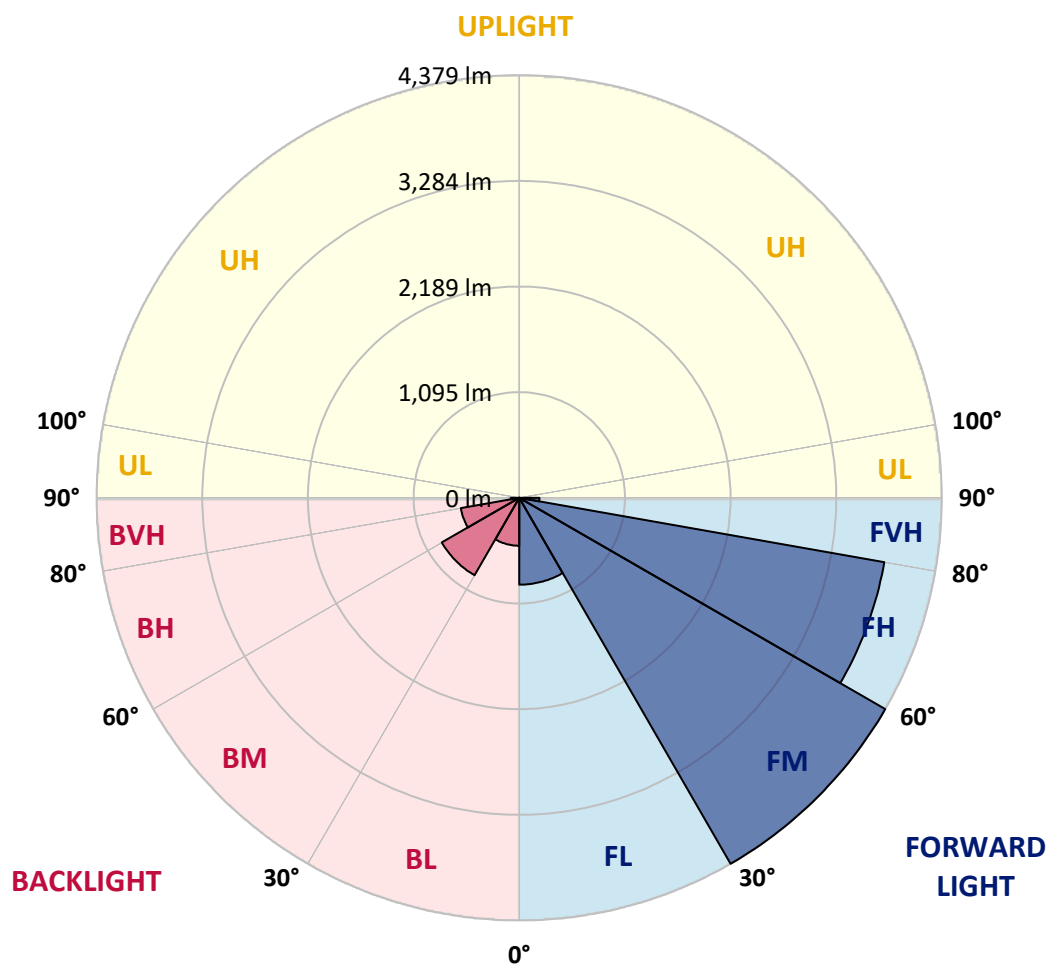
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	900.3	7.9			
FM	(30°-60°)	4378.6	38.2			
FH	(60°-80°)	3840.8	33.5			G2/5000
FVH	(80°-90°)	208.6	1.8			G2/225
BL	(0°-30°)	496.7	4.3	B1/500		
BM	(30°-60°)	926.1	8.1	B1/1000		
BH	(60°-80°)	614.7	5.4	B2/1000		G2/1000
BVH	(80°-90°)	87.1	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°	1409.0	1409.0	1409.0	1409.0	1409.0	1409.0	1409.0	1409.0	1409.0	1409.0	1409.0
2.5°	1556.5	1554.1	1545.9	1545.9	1530.1	1516.7	1491.4	1474.5	1454.4	1447.3	1423.6
5°	1707.1	1707.9	1697.7	1690.6	1667.3	1638.9	1595.9	1556.9	1517.9	1502.1	1453.6
7.5°	1833.7	1832.2	1829.4	1823.5	1801.8	1772.6	1714.6	1656.7	1599.1	1575.4	1491.8
10°	1915.0	1918.5	1920.9	1923.6	1914.6	1893.7	1838.9	1768.3	1693.0	1660.6	1537.6
12.5°	1956.0	1962.3	1973.3	1992.3	2007.2	2004.9	1965.1	1890.1	1800.6	1760.0	1594.8
15°	1980.0	1988.3	2005.7	2039.6	2081.8	2105.8	2095.2	2027.4	1927.6	1877.5	1664.6
17.5°	1995.0	2001.7	2028.5	2073.9	2136.6	2200.5	2228.5	2171.7	2071.1	2014.0	1744.6
20°	2005.3	2010.4	2043.9	2097.2	2178.4	2280.1	2358.2	2344.0	2229.3	2155.1	1828.2
22.5°	2028.1	2032.5	2064.4	2118.1	2208.0	2339.3	2483.2	2504.5	2396.1	2312.1	1917.7
25°	2092.0	2092.0	2118.9	2156.3	2240.7	2390.6	2588.9	2683.2	2566.4	2468.6	2000.5
27.5°	2213.9	2212.7	2222.6	2235.6	2299.5	2442.6	2683.2	2840.9	2743.1	2636.2	2081.0
30°	2358.2	2366.1	2367.3	2361.0	2391.0	2507.7	2770.3	3007.3	2921.0	2805.8	2163.4
32.5°	2544.0	2549.1	2543.2	2522.3	2517.9	2600.0	2855.9	3181.6	3113.4	2982.9	2238.7
35°	2779.8	2769.9	2751.4	2708.8	2668.2	2723.4	2953.7	3355.9	3329.5	3197.0	2342.4
37.5°	3032.6	3033.0	3010.1	2913.5	2857.5	2881.1	3088.6	3553.5	3591.0	3451.8	2475.3
40°	3235.3	3245.9	3260.1	3133.1	3060.6	3093.3	3260.1	3782.6	3900.1	3753.8	2648.5
42.5°	3376.8	3389.1	3429.3	3349.6	3274.3	3335.0	3462.0	4027.1	4247.2	4102.4	2851.2
45°	3526.7	3533.4	3561.8	3527.5	3479.4	3616.2	3689.6	4280.3	4614.3	4473.9	3077.9
47.5°	3684.4	3691.5	3720.7	3697.8	3672.6	3878.8	3927.0	4518.9	4966.1	4882.1	3320.0
50°	3879.2	3884.0	3911.6	3870.2	3878.1	4076.8	4139.1	4737.7	5334.8	5248.8	3563.0
52.5°	4145.0	4146.2	4184.5	4147.0	4109.9	4221.9	4321.7	4944.0	5623.8	5583.2	3805.9
55°	4353.2	4365.9	4491.3	4483.4	4462.1	4353.6	4474.3	5140.4	5881.8	5901.1	4063.8
57.5°	4220.3	4269.6	4523.6	4702.6	4876.9	4681.3	4680.6	5361.6	6121.5	6213.0	4347.3
60°	3696.3	3763.3	4137.5	4534.6	5080.0	5251.6	5108.8	5631.7	6363.6	6522.2	4702.6
62.5°	2639.8	2750.2	3257.3	3891.5	4801.6	5629.4	5980.3	6060.4	6692.9	6880.3	5164.4
65°	1334.5	1418.1	1843.2	2607.1	3836.3	5382.5	6927.6	6998.9	7265.1	7431.6	5875.4
67.5°	810.8	842.3	1049.8	1450.0	2351.9	4192.7	7236.7	8563.3	8372.5	8460.8	6889.3
70°	597.4	620.7	750.1	963.0	1352.6	2460.4	6287.9	9679.8	9554.3	9544.5	7638.6
72°	465.3	482.3	596.7	778.1	989.0	1476.1	4557.5	9267.7	9892.7	9843.0	7570.0
72.5°	441.3	456.3	560.4	732.3	934.6	1338.0	4097.7	8989.6	9868.3	9845.8	7481.2
75°	347.4	358.1	414.9	566.3	731.5	759.1	2245.4	6966.6	8754.2	9118.2	6728.8
77.5°	287.5	289.1	319.0	412.1	570.2	536.7	1103.0	4833.6	6268.6	6668.9	4766.5
80°	234.2	236.2	250.4	289.1	431.4	397.1	523.7	2779.4	3509.7	3514.1	2266.7
82.5°	186.5	186.9	202.7	211.4	310.0	283.9	300.1	1304.9	1533.6	1475.3	814.7
85°	131.3	128.6	198.0	173.5	202.7	182.2	165.6	516.6	634.1	606.5	255.1
87.5°	43.8	45.4	87.9	112.4	118.3	103.3	73.7	198.0	239.4	237.4	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°	1409.0	1409.0	1409.0	1409.0	1409.0	1409.0	1409.0	1409.0	1409.0	1409.0	1409.0
2.5°	1416.1	1403.5	1385.0	1364.5	1348.3	1331.7	1319.5	1313.2	1306.1	1300.2	1307.3
5°	1431.1	1407.4	1368.0	1329.4	1301.0	1275.7	1257.6	1248.1	1239.4	1233.5	1234.3
7.5°	1455.6	1417.3	1351.0	1294.7	1255.2	1228.0	1209.5	1203.2	1197.6	1196.1	1198.0
10°	1481.6	1425.2	1328.6	1253.6	1208.7	1186.2	1177.9	1182.3	1186.2	1189.8	1193.7
12.5°	1511.2	1432.3	1295.8	1205.5	1167.3	1158.6	1166.9	1185.8	1199.6	1207.9	1213.0
15°	1549.8	1438.6	1258.0	1157.4	1131.8	1141.6	1169.6	1202.4	1226.4	1241.8	1244.2
17.5°	1585.3	1438.2	1209.5	1108.9	1103.0	1131.8	1174.0	1220.1	1252.5	1274.1	1278.5
20°	1622.0	1427.6	1153.1	1061.6	1073.8	1121.1	1176.0	1231.6	1270.6	1295.8	1301.8
22.5°	1656.3	1409.0	1091.2	1018.6	1049.4	1106.9	1168.5	1224.9	1263.9	1284.4	1290.7
25°	1679.5	1376.7	1028.5	982.3	1027.7	1089.6	1144.0	1189.4	1218.5	1228.8	1230.4
27.5°	1691.4	1334.5	969.3	950.8	1005.2	1061.2	1098.7	1121.1	1129.4	1128.6	1127.1
30°	1693.0	1278.9	918.4	925.1	979.2	1019.4	1037.1	1032.8	1022.2	1004.0	1005.6
32.5°	1687.8	1216.2	875.9	900.7	946.0	968.5	969.3	948.4	920.0	891.2	883.3
35°	1689.4	1154.7	838.4	873.1	905.8	915.7	906.6	875.9	837.2	800.1	792.3
37.5°	1706.8	1101.0	806.1	841.2	861.3	863.6	850.6	818.3	789.9	753.6	750.5
40°	1748.2	1062.8	775.3	805.3	816.7	817.9	799.4	776.5	778.8	759.5	759.1
42.5°	1822.7	1046.2	748.1	767.8	774.9	777.3	763.1	748.5	769.0	756.4	752.0
45°	1918.9	1050.2	725.2	731.1	744.1	755.2	746.5	728.8	736.6	681.8	663.7
47.5°	2030.1	1075.4	707.1	699.6	722.1	743.0	729.6	702.7	674.7	620.3	610.1
50°	2160.3	1114.4	690.5	668.4	698.0	726.4	713.0	674.7	632.5	606.1	602.6
52.5°	2295.9	1162.2	673.9	634.1	667.6	713.8	707.1	668.4	616.4	590.3	585.6
55°	2449.7	1210.3	653.0	594.3	634.9	707.9	704.3	645.6	604.1	589.6	586.0
57.5°	2641.0	1265.1	625.4	552.9	604.1	686.6	675.5	631.8	591.5	580.5	579.3
60°	2890.2	1345.9	585.6	508.7	566.7	653.8	651.5	611.6	571.4	563.5	562.0
62.5°	3264.0	1479.6	530.8	464.5	524.9	598.2	619.9	584.4	550.1	549.7	550.5
65°	3843.7	1680.7	471.3	425.9	482.7	551.3	583.2	556.4	528.4	536.3	537.5
67.5°	4515.7	1847.5	412.9	388.0	439.7	506.7	550.1	528.4	499.6	520.1	520.5
70°	4739.3	1698.5	361.6	350.6	395.1	463.8	514.2	497.7	468.5	489.0	487.0
72°	4410.4	1371.2	328.5	322.2	361.6	428.3	482.3	468.9	440.1	453.9	448.8
72.5°	4306.7	1307.3	320.2	315.1	352.6	419.2	474.0	461.8	433.0	444.8	440.1
75°	3841.8	1135.3	275.3	276.4	307.6	375.0	427.5	423.5	394.0	395.1	393.6
77.5°	2786.5	832.5	231.9	239.8	261.8	329.7	380.5	378.2	345.8	339.9	338.7
80°	1293.1	424.7	188.9	192.4	215.3	275.7	324.6	321.4	295.4	287.9	283.5
82.5°	442.9	201.9	142.0	144.3	166.8	222.0	281.6	279.6	257.9	243.3	234.2
85°	158.1	100.6	99.4	97.0	119.1	174.7	245.3	234.6	202.7	172.7	171.9
87.5°	51.3	43.0	51.3	50.9	69.4	118.3	178.2	151.8	147.1	122.2	119.9
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)