

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: P317895

Luminaire Tested: **GAN-SA1D-827-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317895
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1D-827-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6106 lumens
Efficiency: N/A
Efficacy: 91.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

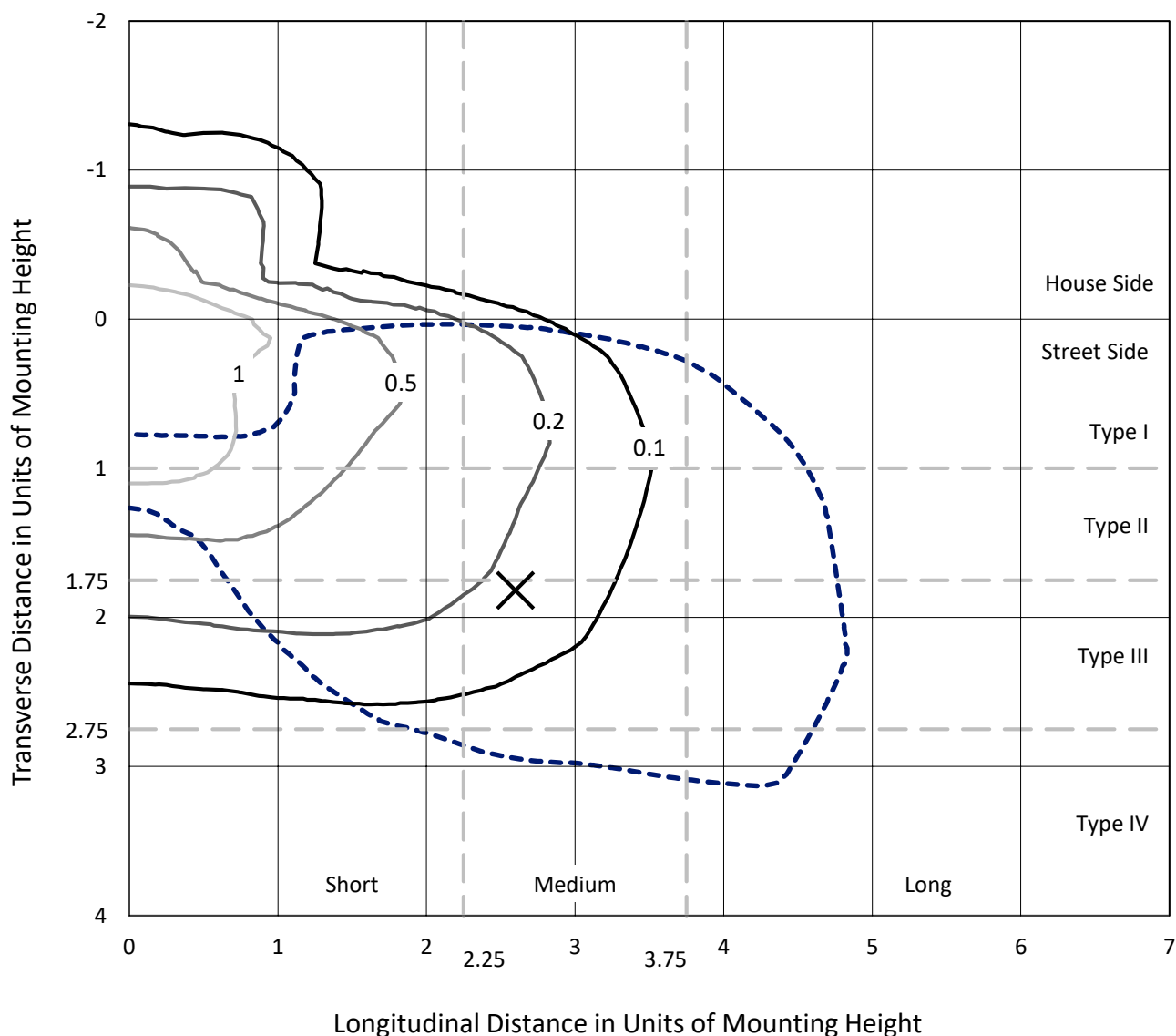
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

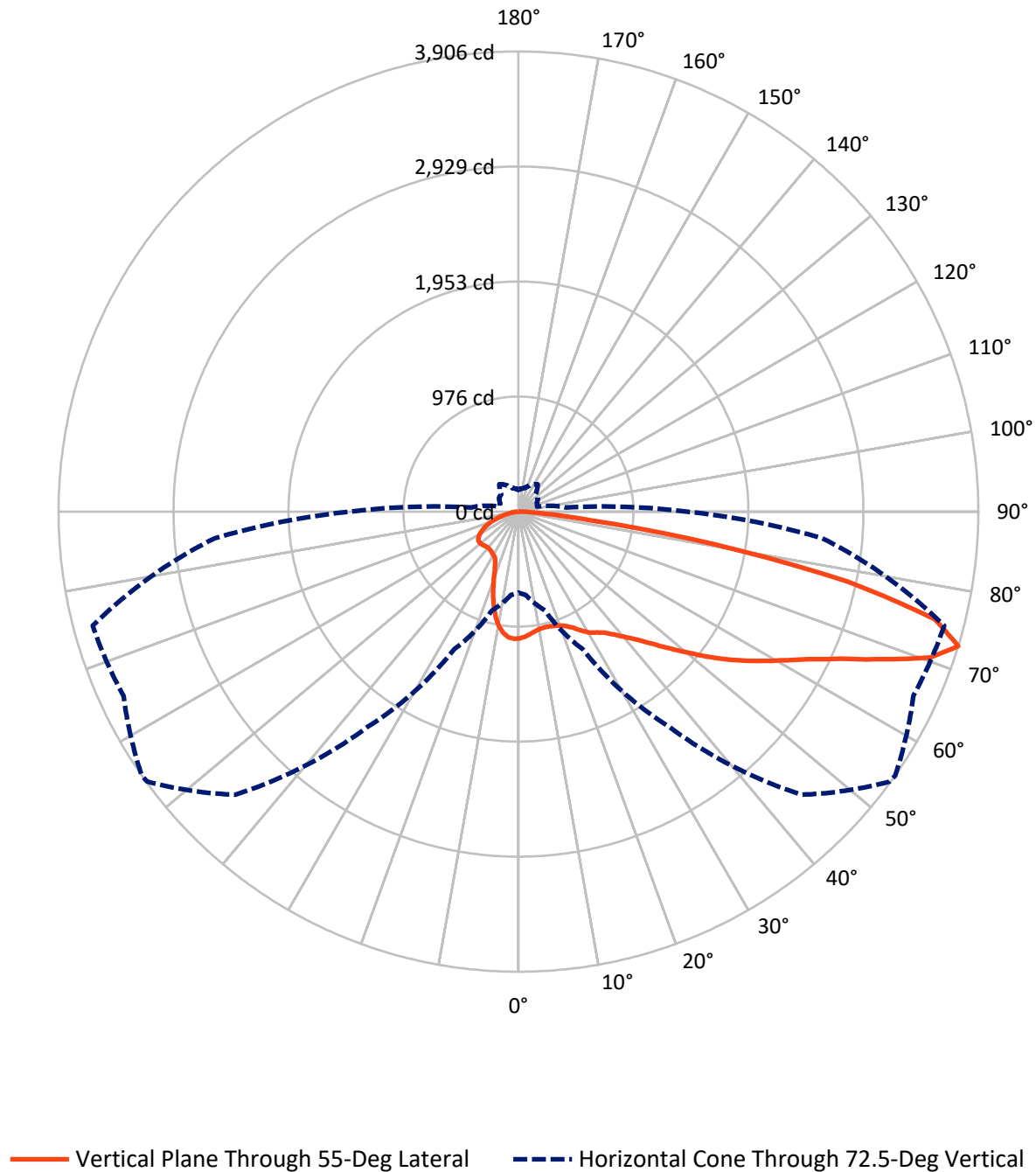
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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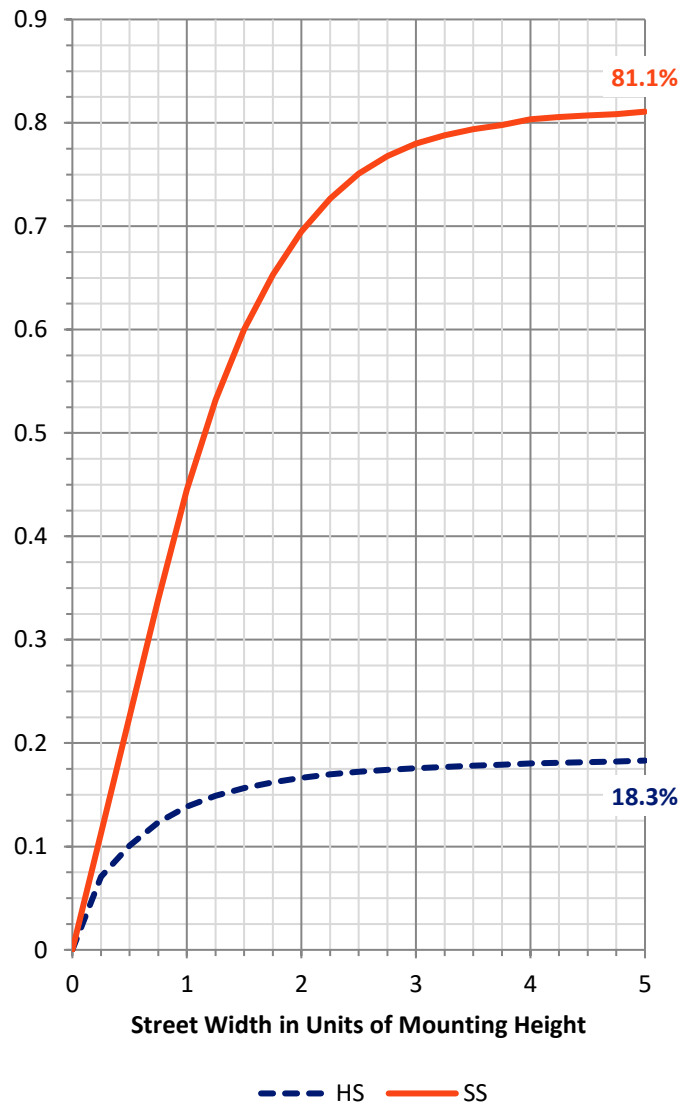
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1134.9	0.0	1134.9
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	4971.1	0.0	4971.1
	% Fixture	81.4	0.0	81.4
Total	Lumens	6106.0	0.0	6106.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.5	1.6
10°-20°	259.5	4.2
20°-30°	427.8	7.0
30°-40°	632.8	10.4
40°-50°	883.2	14.5
50°-60°	1150.0	18.8
60°-70°	1413.3	23.1
70°-80°	1107.9	18.1
80°-90°	134.1	2.2
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°	6106.0	100.0
0°-180°	6106.0	100.0

Coefficient of Utilization



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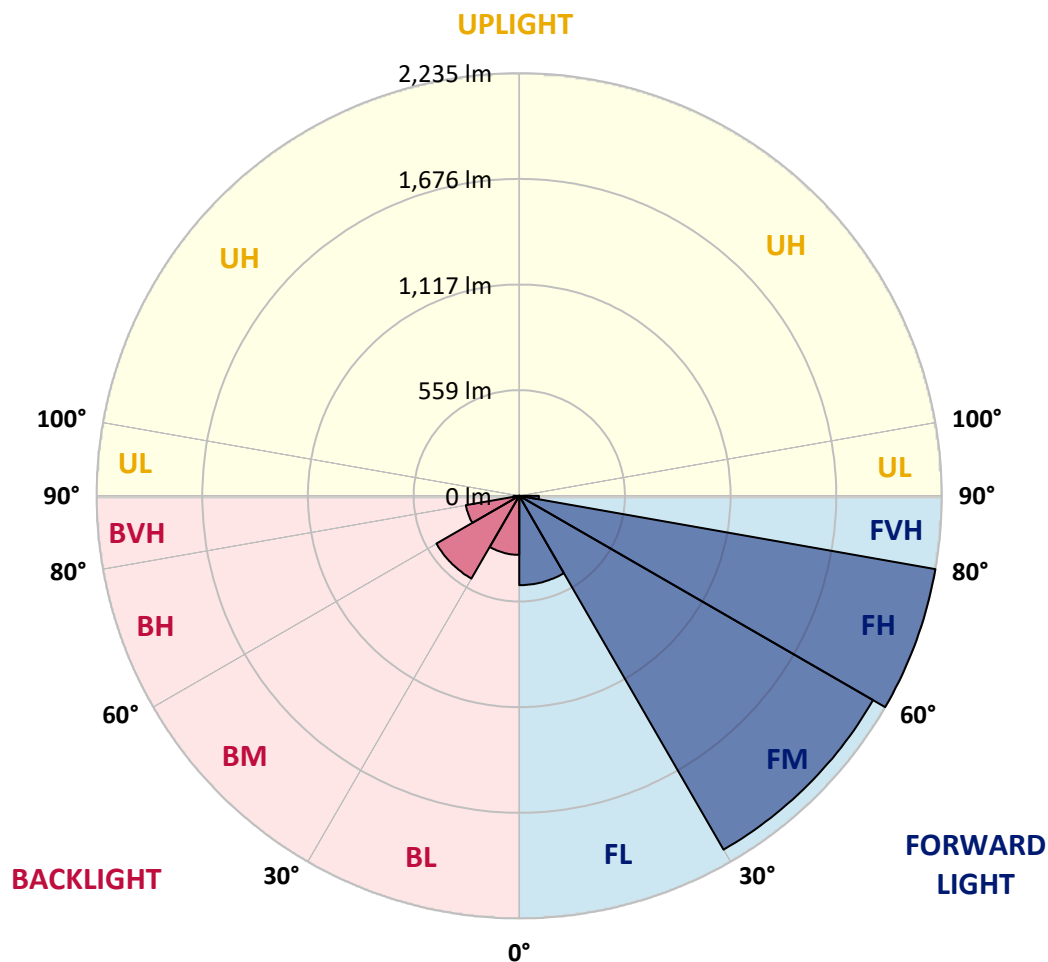
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	472.4	7.7			
FM	(30°-60°)	2160.4	35.4			
FH	(60°-80°)	2234.6	36.6			G2/5000
FVH	(80°-90°)	103.7	1.7			G2/225
BL	(0°-30°)	312.3	5.1	B1/500		
BM	(30°-60°)	505.6	8.3	B1/1000		
BH	(60°-80°)	286.6	4.7	B1/500		G1/500
BVH	(80°-90°)	30.4	0.5			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 IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1077.0	1077.0	1077.0	1077.0	1077.0	1077.0	1077.0	1077.0	1077.0	1077.0	1077.0
2.5°	1041.9	1039.4	1042.5	1046.9	1051.6	1058.0	1061.7	1063.4	1069.7	1072.2	1077.6
5°	993.6	992.4	997.6	1005.0	1015.5	1030.4	1042.3	1044.6	1061.5	1073.5	1084.4
7.5°	958.6	958.6	964.6	973.4	985.2	1005.2	1022.1	1025.2	1053.9	1079.6	1099.9
10°	930.7	931.8	938.8	949.3	963.1	984.4	1006.8	1010.4	1051.8	1094.1	1126.3
12.5°	912.2	914.7	921.1	930.5	947.7	973.4	1001.9	1006.6	1056.1	1114.7	1158.0
15°	923.9	928.1	928.7	932.6	942.1	970.1	1004.8	1009.7	1065.4	1135.7	1194.1
17.5°	975.5	976.9	970.5	962.3	957.8	975.7	1013.4	1018.6	1076.6	1156.6	1228.8
20°	1053.9	1053.0	1039.2	1017.0	993.9	996.7	1027.7	1033.0	1091.6	1174.9	1263.4
22.5°	1152.9	1150.0	1128.7	1087.7	1048.3	1031.8	1052.6	1057.2	1114.3	1201.1	1300.5
25°	1272.9	1266.5	1238.5	1183.4	1125.4	1082.9	1090.2	1094.5	1147.3	1230.4	1334.6
27.5°	1399.5	1393.1	1357.4	1290.8	1213.7	1147.5	1141.9	1145.6	1184.8	1252.1	1359.7
30°	1531.9	1525.1	1492.5	1417.9	1307.3	1214.3	1190.2	1191.6	1211.2	1263.8	1380.3
32.5°	1664.9	1658.6	1622.1	1535.4	1409.0	1286.1	1225.0	1223.2	1227.1	1276.0	1403.6
35°	1799.8	1802.3	1759.6	1663.7	1521.6	1365.9	1266.3	1262.4	1253.7	1300.9	1436.6
37.5°	1944.2	1942.5	1887.3	1787.0	1639.4	1452.5	1325.5	1324.9	1295.0	1348.2	1488.4
40°	2040.7	2041.7	2008.1	1913.3	1758.4	1548.4	1401.4	1399.9	1360.7	1418.9	1556.3
42.5°	2078.5	2085.3	2093.9	2033.7	1882.9	1659.6	1491.9	1489.9	1452.5	1520.4	1636.1
45°	2081.1	2094.7	2148.4	2140.7	2009.2	1786.8	1607.6	1601.8	1575.0	1655.3	1731.4
47.5°	2058.0	2072.1	2161.2	2204.5	2122.0	1921.1	1742.9	1738.4	1715.3	1824.0	1834.5
50°	2007.5	2020.9	2134.8	2235.6	2214.8	2050.2	1898.8	1886.9	1874.5	2018.8	1952.4
52.5°	1912.8	1938.6	2099.5	2243.0	2270.3	2164.9	2062.8	2054.9	2061.7	2224.5	2070.6
55°	1688.7	1717.5	2008.5	2236.8	2311.3	2261.2	2226.7	2226.3	2261.6	2440.2	2197.4
57.5°	1563.1	1583.5	1823.3	2226.3	2360.0	2356.9	2389.0	2393.0	2461.6	2675.1	2330.3
60°	1492.1	1513.6	1729.5	2187.3	2435.4	2480.6	2554.7	2562.5	2665.0	2935.2	2490.1
62.5°	1427.6	1451.1	1671.3	2107.9	2524.3	2657.6	2753.1	2760.1	2880.3	3202.4	2644.6
65°	1317.2	1343.8	1586.2	2055.8	2605.2	2888.3	3005.3	3010.0	3127.6	3482.5	2762.7
67.5°	1161.3	1185.7	1425.5	1940.5	2665.0	3168.6	3340.6	3343.3	3372.8	3680.3	2823.2
70°	979.2	988.5	1196.6	1702.5	2594.2	3430.7	3708.1	3708.8	3596.4	3806.9	2813.3
72.5°	688.0	709.9	868.7	1288.8	2229.4	3398.8	3898.9	3905.9	3700.3	3743.0	2588.5
75°	422.0	445.1	544.9	781.0	1414.4	2673.0	3602.3	3651.0	3505.4	3337.3	2114.5
77.5°	282.1	290.8	355.6	455.4	640.8	1537.9	2769.6	2861.1	2912.1	2433.8	1352.3
80°	157.4	173.9	235.7	283.0	285.0	611.1	1660.6	1682.1	1620.2	969.1	417.2
82.5°	83.3	92.4	157.4	166.2	155.5	204.6	618.9	619.5	517.7	259.9	123.9
85°	64.6	72.2	107.9	101.5	79.4	90.7	204.2	215.3	176.1	106.4	40.4
87.5°	32.2	40.0	73.2	64.3	31.1	26.0	73.0	78.0	69.5	41.7	14.6
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°	1077.0	1077.0	1077.0	1077.0	1077.0	1077.0	1077.0	1077.0	1077.0	1077.0	1077.0
2.5°	1079.6	1081.5	1083.8	1081.3	1080.5	1077.2	1071.6	1070.4	1067.5	1067.7	1069.3
5°	1089.1	1092.2	1091.0	1081.5	1070.2	1054.3	1037.8	1023.8	1014.5	1013.9	1013.2
7.5°	1107.3	1109.3	1099.7	1072.6	1040.9	1004.2	969.5	939.2	920.8	916.3	915.3
10°	1135.7	1135.3	1108.7	1054.3	991.0	925.4	869.7	827.6	803.1	795.9	794.0
12.5°	1167.5	1162.8	1111.8	1020.9	920.4	829.5	759.0	712.1	686.6	678.3	676.2
15°	1200.3	1188.5	1104.2	971.0	833.8	726.2	652.1	608.8	595.0	590.5	589.6
17.5°	1230.8	1208.1	1082.3	903.3	735.0	623.2	565.5	548.2	551.5	557.5	557.7
20°	1260.7	1221.3	1047.3	817.9	630.9	538.5	518.9	531.7	547.4	559.5	561.2
22.5°	1290.2	1230.6	1002.1	719.4	537.7	490.8	504.7	528.0	545.9	559.1	561.4
25°	1315.0	1232.9	939.8	614.2	472.9	472.9	497.9	519.9	537.7	550.7	552.9
27.5°	1324.0	1217.6	852.0	516.8	440.3	464.7	488.4	506.7	521.8	535.6	538.1
30°	1327.5	1189.4	750.5	438.7	426.9	455.8	475.6	491.3	505.5	518.5	520.7
32.5°	1328.2	1155.3	642.8	394.3	417.6	446.5	459.7	473.5	488.8	493.9	494.8
35°	1332.1	1115.1	529.4	371.6	409.0	437.8	448.4	458.3	433.5	435.4	437.0
37.5°	1343.4	1075.3	434.5	358.9	403.4	433.3	445.9	410.0	390.6	386.1	385.5
40°	1364.7	1032.8	364.2	348.5	401.3	435.6	430.0	382.8	349.4	324.4	320.7
42.5°	1394.2	987.0	319.3	341.7	402.8	446.5	407.9	356.6	301.1	285.0	283.0
45°	1427.4	939.0	294.9	337.0	407.7	455.0	403.4	321.7	278.6	266.5	265.4
47.5°	1459.5	880.2	282.3	334.9	414.5	448.2	384.2	311.0	267.9	261.5	262.1
50°	1496.5	827.2	274.7	332.7	420.5	443.8	362.6	305.4	263.8	271.6	279.9
52.5°	1527.6	772.4	267.9	328.1	422.8	436.2	357.0	306.5	263.8	278.8	286.7
55°	1564.5	730.9	260.1	318.6	418.5	414.5	353.1	312.7	266.9	257.4	258.2
57.5°	1612.2	717.3	251.4	303.8	404.0	383.0	351.2	318.6	265.0	259.0	261.1
60°	1678.1	731.7	247.9	284.4	381.5	358.2	351.4	315.5	252.0	241.7	241.9
62.5°	1741.0	747.8	247.7	272.2	353.9	336.2	346.7	305.4	245.4	239.4	241.7
65°	1761.7	731.5	237.8	258.6	322.8	309.8	338.0	294.7	240.5	231.4	231.0
67.5°	1734.0	681.0	217.8	236.6	287.1	279.0	326.7	281.9	232.6	225.2	224.0
70°	1652.0	568.2	193.0	207.5	246.5	244.4	308.7	267.1	222.1	215.7	210.4
72.5°	1431.1	404.8	162.7	172.6	200.7	207.3	284.0	247.7	207.3	193.4	185.2
75°	1175.3	299.7	133.6	135.7	152.4	170.4	250.0	225.0	189.7	166.2	159.8
77.5°	719.8	183.3	106.4	107.2	109.3	135.9	205.8	199.6	167.5	138.6	134.1
80°	233.0	100.0	76.9	80.8	74.7	99.6	159.2	169.9	143.7	115.9	111.0
82.5°	88.7	58.4	52.0	54.7	51.8	66.8	116.1	136.1	117.8	95.3	77.5
85°	42.9	33.0	30.7	34.4	32.0	34.2	74.2	100.2	89.3	62.1	57.7
87.5°	15.3	14.6	11.8	15.9	13.6	12.2	22.7	50.5	59.0	42.7	38.2
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)