

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: P318786

Luminaire Tested: **GAN-SA2A-760-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318786
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2A-760-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9592 lumens
Efficiency: N/A
Efficacy: 145.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

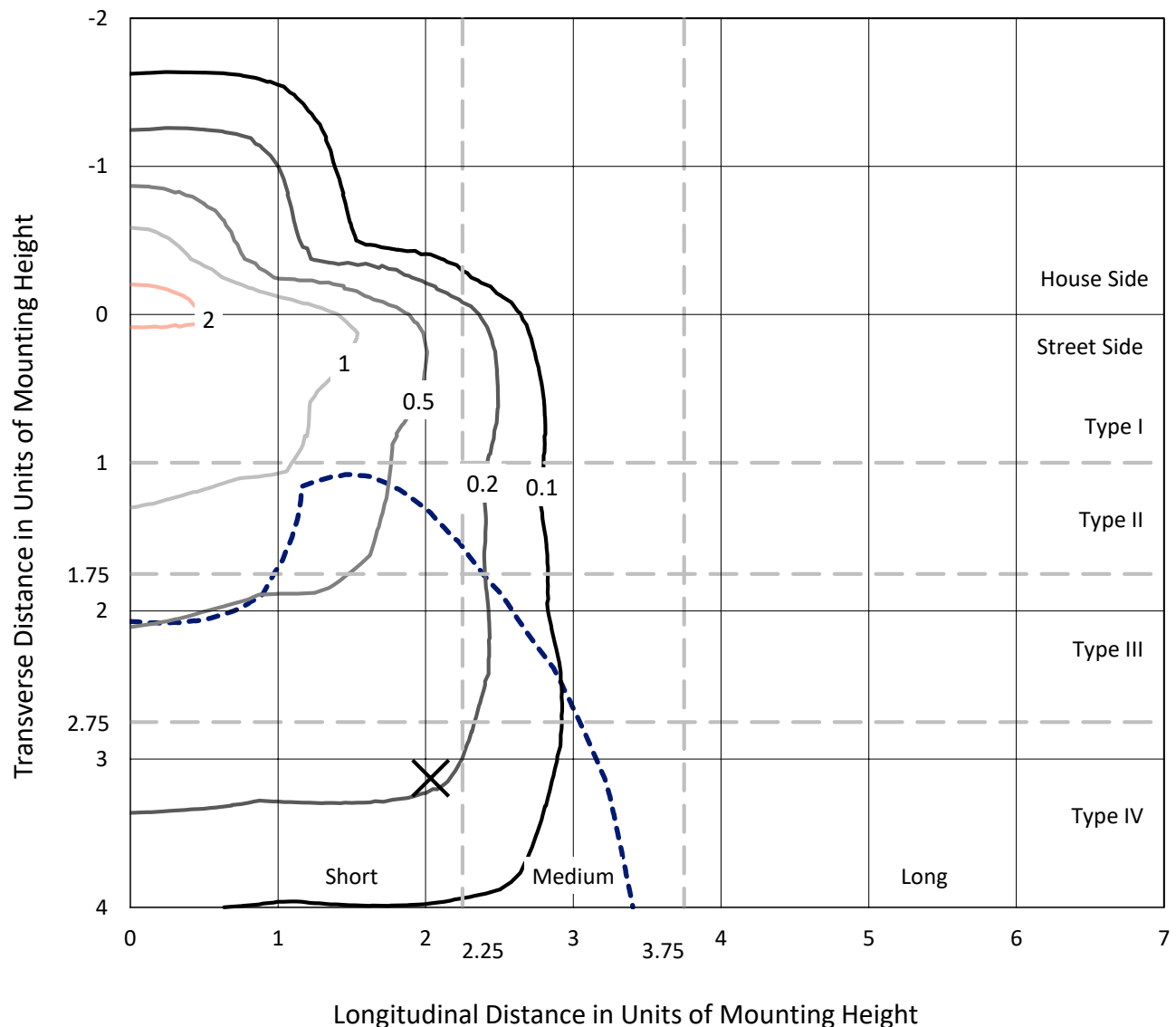
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

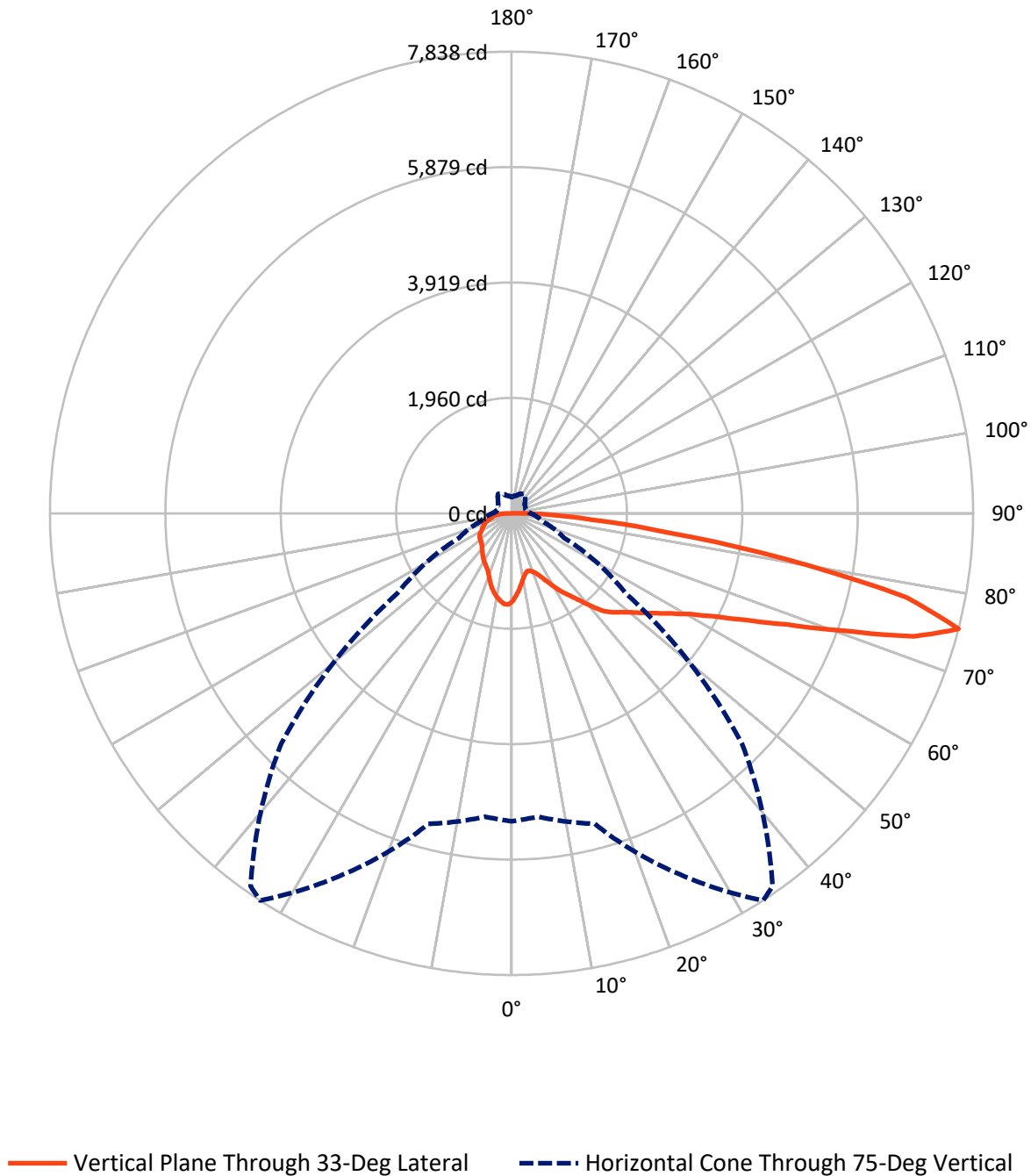
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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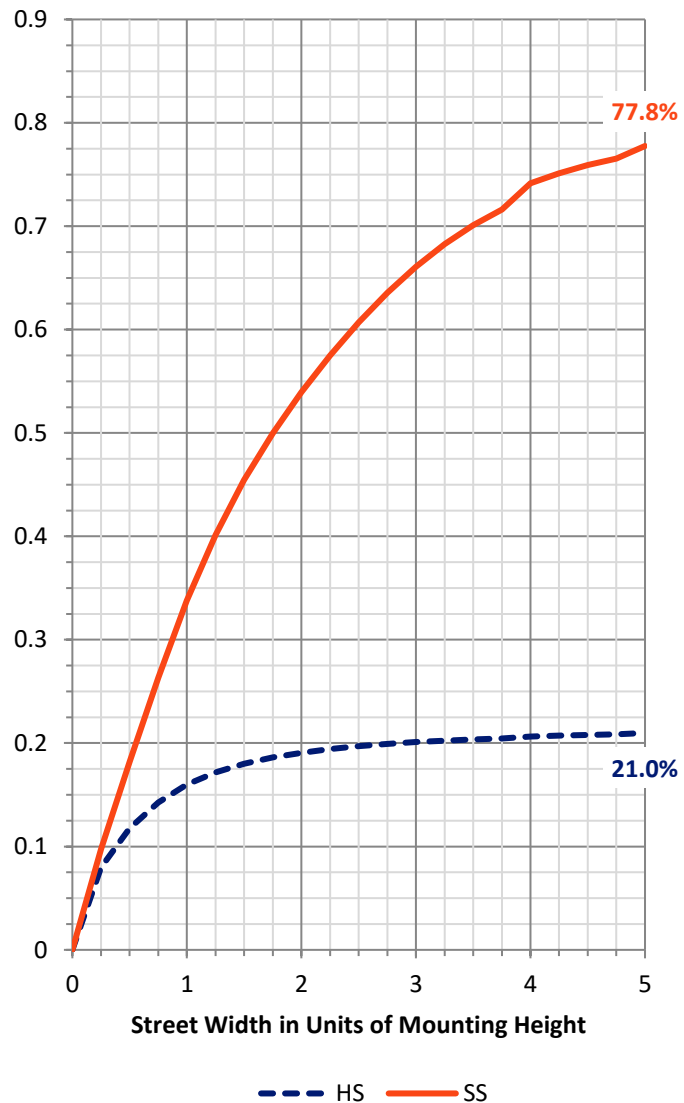
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2059.7	0.0	2059.7
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	7532.3	0.0	7532.3
	% Fixture	78.5	0.0	78.5
Total	Lumens	9592.0	0.0	9592.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.6	1.4
10°-20°	367.2	3.8
20°-30°	599.8	6.3
30°-40°	893.2	9.3
40°-50°	1281.1	13.4
50°-60°	1758.7	18.3
60°-70°	2201.8	23.0
70°-80°	1991.9	20.8
80°-90°	362.8	3.8
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°	9592.0	100.0
0°-180°	9592.0	100.0

Coefficient of Utilization



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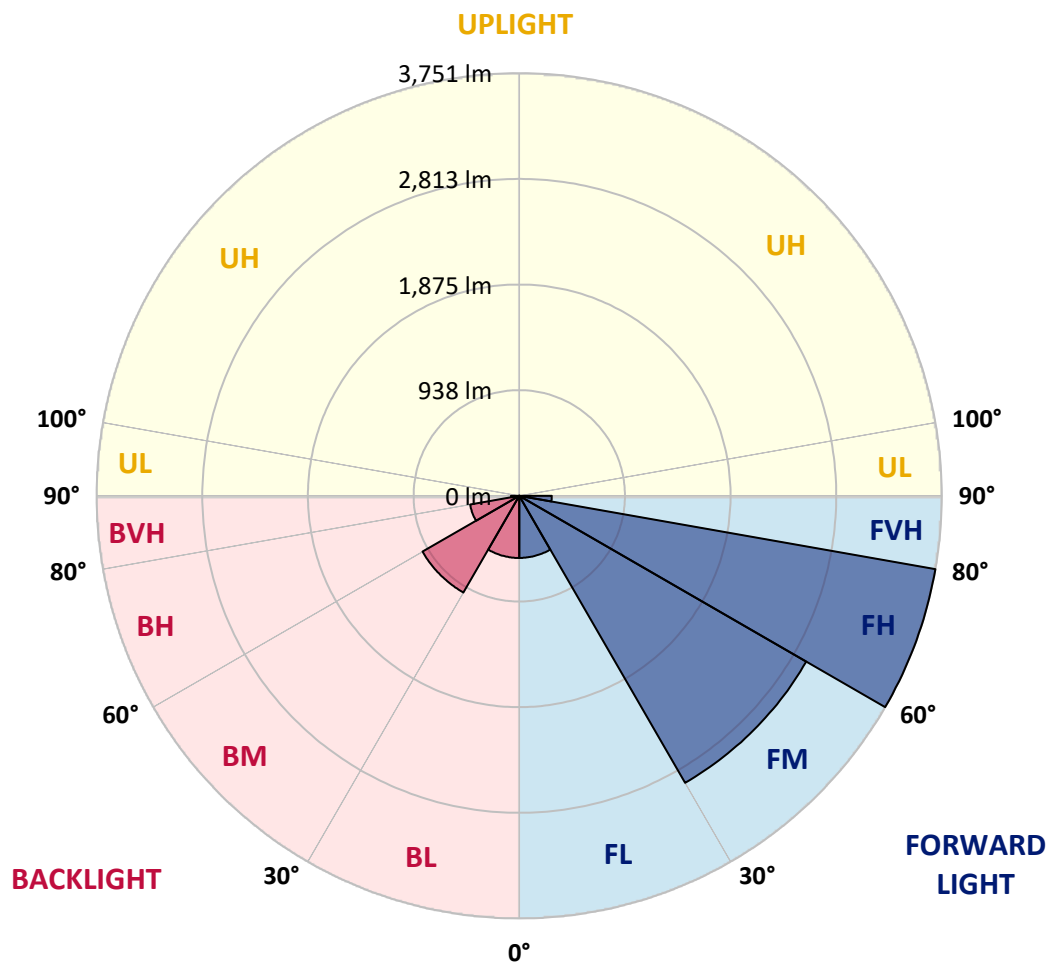
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	550.9	5.7			
FM	(30°-60°)	2941.7	30.7			
FH	(60°-80°)	3750.8	39.1			G2/5000
FVH	(80°-90°)	289.0	3.0			G3/500
BL	(0°-30°)	551.7	5.8	B2/1000		
BM	(30°-60°)	991.3	10.3	B1/1000		
BH	(60°-80°)	442.9	4.6	B1/500		G1/500
BVH	(80°-90°)	73.9	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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	1499.3	1499.3	1499.3	1499.3	1499.3	1499.3	1499.3	1499.3	1499.3	1499.3	1499.3
2.5°	1392.3	1387.0	1396.9	1398.2	1406.8	1410.2	1422.1	1440.6	1455.9	1473.4	1489.3
5°	1266.0	1262.4	1276.3	1286.2	1305.1	1313.1	1341.2	1380.7	1415.8	1455.5	1491.7
7.5°	1146.1	1144.1	1159.7	1182.2	1204.1	1215.0	1263.7	1321.0	1379.7	1444.0	1499.3
10°	1045.0	1044.4	1059.3	1081.5	1113.6	1125.9	1188.8	1264.4	1346.5	1435.0	1512.2
12.5°	988.4	990.7	997.6	1016.2	1046.0	1058.3	1128.2	1217.0	1318.7	1432.0	1531.1
15°	1002.3	1005.9	994.0	993.3	1014.5	1024.2	1089.8	1183.2	1298.8	1437.0	1558.6
17.5°	1061.6	1062.3	1030.8	1010.9	1023.8	1028.8	1077.8	1164.0	1287.2	1448.3	1593.1
20°	1145.1	1143.4	1087.8	1054.6	1061.6	1062.9	1094.7	1164.3	1286.2	1467.8	1637.8
22.5°	1255.8	1243.5	1168.6	1123.6	1121.9	1119.9	1138.1	1188.8	1300.8	1499.6	1691.1
25°	1400.2	1388.6	1285.6	1223.9	1210.7	1205.7	1208.4	1241.2	1329.6	1533.7	1750.8
27.5°	1560.9	1540.7	1441.3	1354.2	1326.7	1319.7	1303.8	1315.1	1361.1	1566.5	1821.7
30°	1695.4	1684.5	1597.7	1494.3	1461.8	1451.9	1410.2	1397.9	1406.5	1611.3	1911.1
32.5°	1770.6	1763.4	1710.7	1627.2	1597.0	1583.1	1524.1	1499.6	1479.4	1681.8	2032.4
35°	1861.8	1857.1	1825.3	1764.7	1720.0	1705.4	1659.6	1634.1	1582.1	1778.9	2189.1
37.5°	1977.7	1972.8	1973.4	1924.4	1871.0	1857.5	1827.3	1800.5	1715.3	1906.5	2359.4
40°	2108.9	2099.3	2095.7	2093.4	2059.6	2051.9	2036.0	1999.6	1882.3	2058.9	2527.4
42.5°	2306.4	2272.3	2199.4	2226.9	2260.4	2256.4	2269.3	2217.0	2067.9	2239.2	2691.4
45°	2496.9	2440.9	2315.0	2321.0	2394.2	2416.4	2513.2	2476.1	2269.0	2436.6	2861.1
47.5°	2583.7	2541.3	2434.3	2434.6	2507.2	2553.3	2765.3	2738.8	2480.4	2660.9	3068.1
50°	2680.8	2638.4	2542.3	2578.4	2641.7	2690.8	3008.8	2995.3	2681.5	2906.5	3316.3
52.5°	2786.8	2714.9	2654.0	2718.6	2807.4	2864.4	3252.7	3215.6	2866.0	3153.6	3601.6
55°	2788.2	2768.6	2815.0	2862.4	2995.3	3065.2	3508.2	3410.1	3016.5	3396.5	3833.9
57.5°	2946.9	2915.1	3013.5	3035.3	3209.0	3287.8	3762.3	3579.4	3169.5	3582.7	3959.1
60°	3156.9	3129.8	3210.3	3267.9	3473.4	3578.7	4033.7	3753.3	3289.8	3723.2	3953.1
62.5°	3519.8	3488.9	3487.9	3568.8	3845.5	3968.0	4338.1	3924.0	3337.5	3751.0	3784.5
65°	4050.9	4001.8	3909.4	3947.8	4359.4	4481.6	4678.4	4047.6	3274.6	3601.9	3350.1
67.5°	4567.8	4566.1	4452.5	4531.3	5037.9	5136.0	5066.1	4059.8	3078.1	3082.7	2579.4
70°	5083.0	5089.6	5070.4	5344.7	5954.7	6056.8	5478.9	3895.2	2636.4	2226.2	1545.3
72.5°	5491.2	5489.5	5586.3	6293.7	7144.5	7121.7	5826.8	3396.2	1892.9	1201.7	738.5
75°	5226.8	5169.1	5457.4	6763.5	7838.0	7726.4	5530.9	2369.0	982.4	547.0	397.6
77.5°	3409.1	3463.8	3886.9	5587.3	6855.9	6720.1	4057.8	1105.3	462.9	358.8	288.3
80°	1234.5	1292.2	1820.0	3164.9	4723.5	4701.3	1998.3	454.3	313.1	271.0	210.1
82.5°	424.8	446.0	718.0	1405.5	2666.9	2766.3	751.8	258.1	227.6	192.2	143.8
85°	166.7	190.8	328.4	676.3	1345.2	1355.2	304.5	154.4	158.4	125.9	78.9
87.5°	63.3	76.9	157.1	314.1	614.3	564.3	109.0	73.6	90.1	74.9	37.4
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°	1499.3	1499.3	1499.3	1499.3	1499.3	1499.3	1499.3	1499.3	1499.3	1499.3	1499.3
2.5°	1501.6	1508.6	1523.1	1533.1	1543.7	1546.7	1548.0	1550.6	1553.3	1552.3	1552.6
5°	1510.9	1524.5	1548.0	1557.9	1562.6	1557.3	1547.0	1538.7	1532.7	1529.4	1528.4
7.5°	1526.1	1545.3	1570.5	1568.9	1558.3	1534.7	1508.2	1488.3	1471.8	1465.8	1462.5
10°	1546.3	1568.9	1586.4	1567.5	1536.7	1496.0	1456.2	1425.4	1400.5	1390.9	1389.3
12.5°	1572.2	1595.0	1598.4	1558.3	1507.2	1451.6	1397.6	1356.8	1319.7	1307.8	1305.1
15°	1605.6	1627.2	1606.6	1542.0	1470.8	1395.9	1326.0	1270.7	1231.6	1217.0	1211.7
17.5°	1640.8	1661.3	1608.3	1515.2	1423.1	1330.0	1242.2	1185.5	1140.8	1123.9	1121.9
20°	1682.8	1692.1	1601.3	1476.8	1357.5	1244.5	1152.0	1098.7	1074.8	1062.9	1061.6
22.5°	1734.9	1724.9	1585.4	1424.7	1274.3	1145.8	1070.5	1045.7	1039.7	1037.1	1038.1
25°	1789.9	1759.4	1561.9	1356.8	1169.3	1047.0	1010.9	1017.9	1025.8	1024.8	1024.8
27.5°	1850.5	1794.5	1525.8	1266.7	1053.0	966.2	970.5	996.0	1007.9	1007.6	1007.3
30°	1928.4	1834.3	1479.7	1158.3	944.3	909.2	935.4	966.5	982.7	982.1	982.4
32.5°	2024.1	1878.0	1417.1	1037.4	865.8	867.1	897.3	928.1	947.0	945.3	945.6
35°	2136.1	1927.0	1332.3	918.1	813.8	833.6	857.5	879.0	896.9	894.6	892.3
37.5°	2258.0	1975.1	1219.6	811.4	771.3	802.5	822.4	826.0	834.3	828.3	824.0
40°	2374.0	2011.9	1074.5	724.0	728.6	776.0	788.9	774.3	759.4	757.4	751.5
42.5°	2475.1	2024.1	927.7	654.1	683.5	748.2	756.1	725.6	698.8	686.2	680.9
45°	2581.7	2028.4	790.9	595.4	640.1	723.3	731.9	691.2	653.4	626.2	617.3
47.5°	2721.2	2059.6	684.5	552.0	607.0	706.7	719.0	663.7	614.6	575.9	567.6
50°	2903.8	2121.2	598.1	518.9	585.5	695.8	709.7	636.8	582.8	536.1	527.8
52.5°	3106.6	2177.9	528.1	492.0	564.6	676.6	697.8	617.6	553.0	499.3	490.4
55°	3248.4	2134.4	471.8	464.2	537.4	649.1	681.2	601.4	510.3	463.5	455.6
57.5°	3275.6	1986.0	429.1	435.4	504.6	614.6	655.7	565.3	487.1	448.0	439.7
60°	3201.3	1779.3	397.3	408.9	469.5	571.2	608.0	539.7	464.9	431.4	424.4
62.5°	3014.8	1567.5	373.7	385.0	436.7	527.2	578.2	512.9	442.3	412.5	405.6
65°	2638.1	1316.1	351.2	363.8	406.2	489.0	551.3	488.1	420.1	397.3	390.6
67.5°	1991.3	985.7	330.0	341.3	379.0	455.9	522.2	463.5	398.6	384.0	376.1
70°	1172.6	617.3	305.8	317.7	350.6	421.5	491.0	436.7	371.8	365.1	354.9
72.5°	545.7	371.4	278.3	289.9	314.8	375.4	450.9	401.6	339.9	325.4	311.5
75°	325.7	271.7	245.8	256.1	273.7	326.4	400.6	365.8	309.8	290.6	276.0
77.5°	243.5	207.7	210.1	221.0	235.2	285.6	354.9	337.6	286.6	271.7	261.8
80°	175.3	157.7	171.3	183.2	198.1	259.8	339.9	312.1	259.1	239.2	229.9
82.5°	117.0	113.3	128.9	141.1	155.7	227.3	319.4	273.4	221.3	196.1	175.6
85°	64.6	68.3	86.8	92.1	104.7	160.0	261.8	219.7	166.7	134.2	128.2
87.5°	26.8	31.5	46.7	45.1	55.7	95.4	172.3	132.5	106.0	79.2	61.6
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)