

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: P323935

Luminaire Tested: **GAN-SA1D-760-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323935
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1D-760-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5700K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6594 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

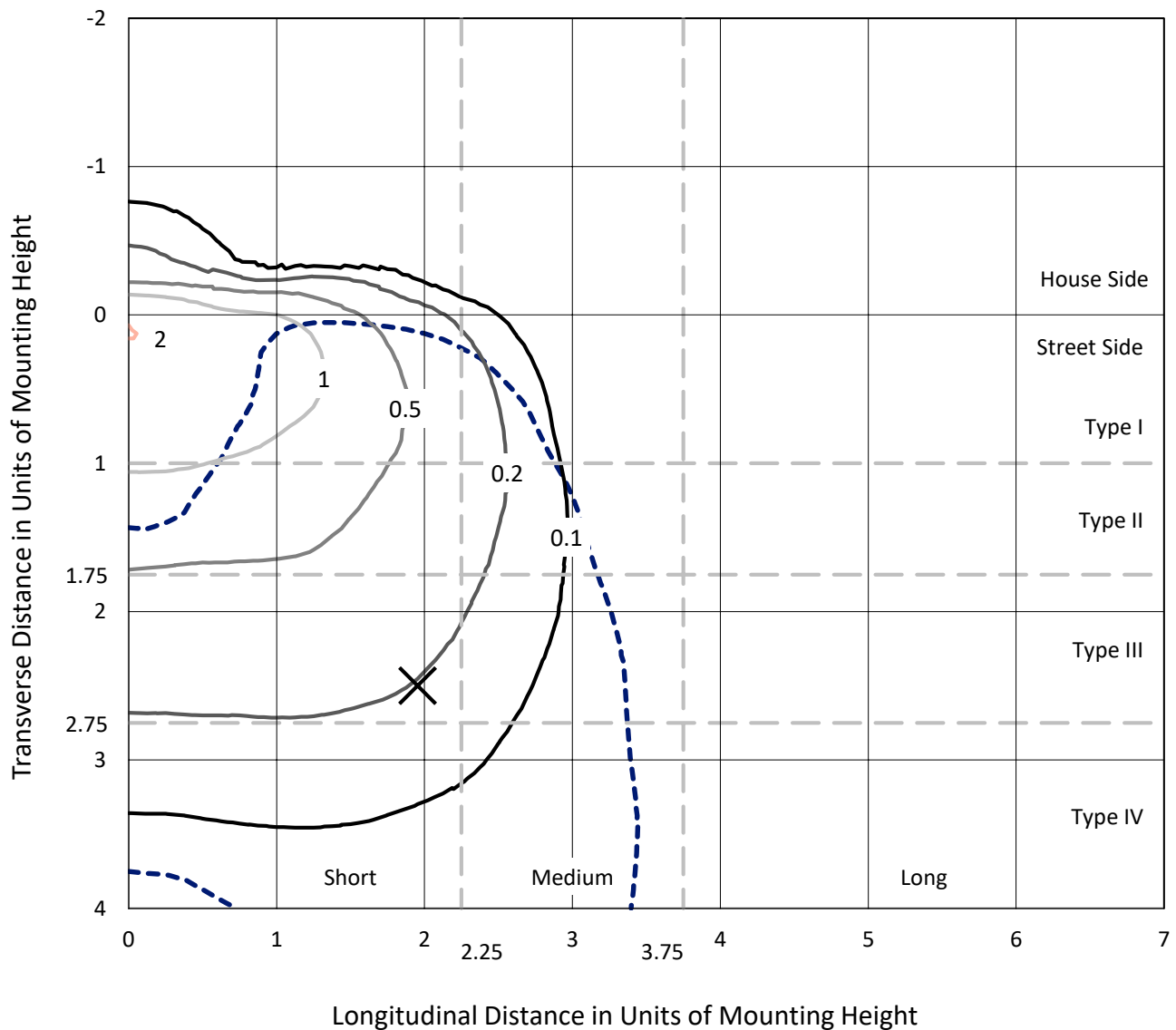
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

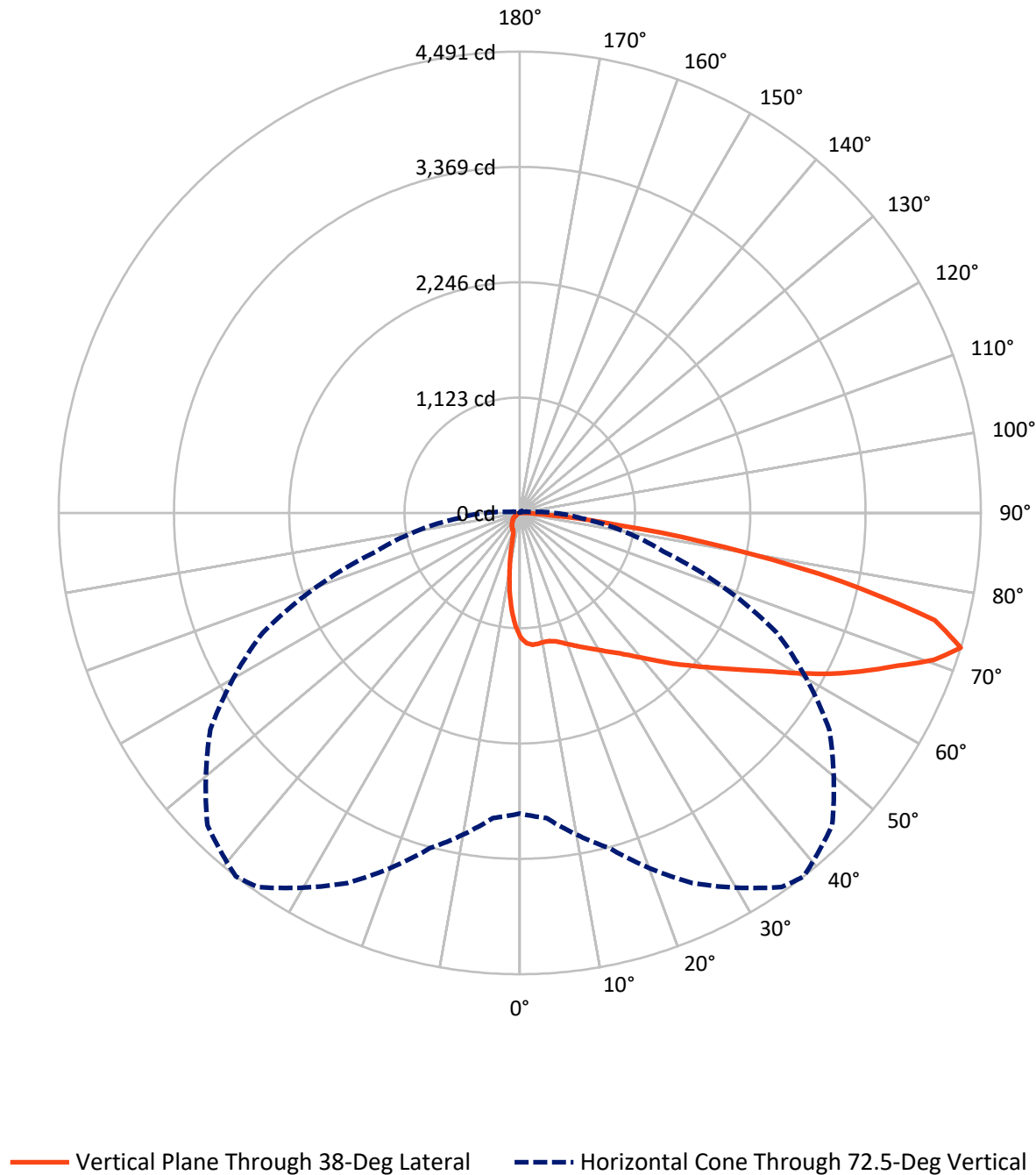
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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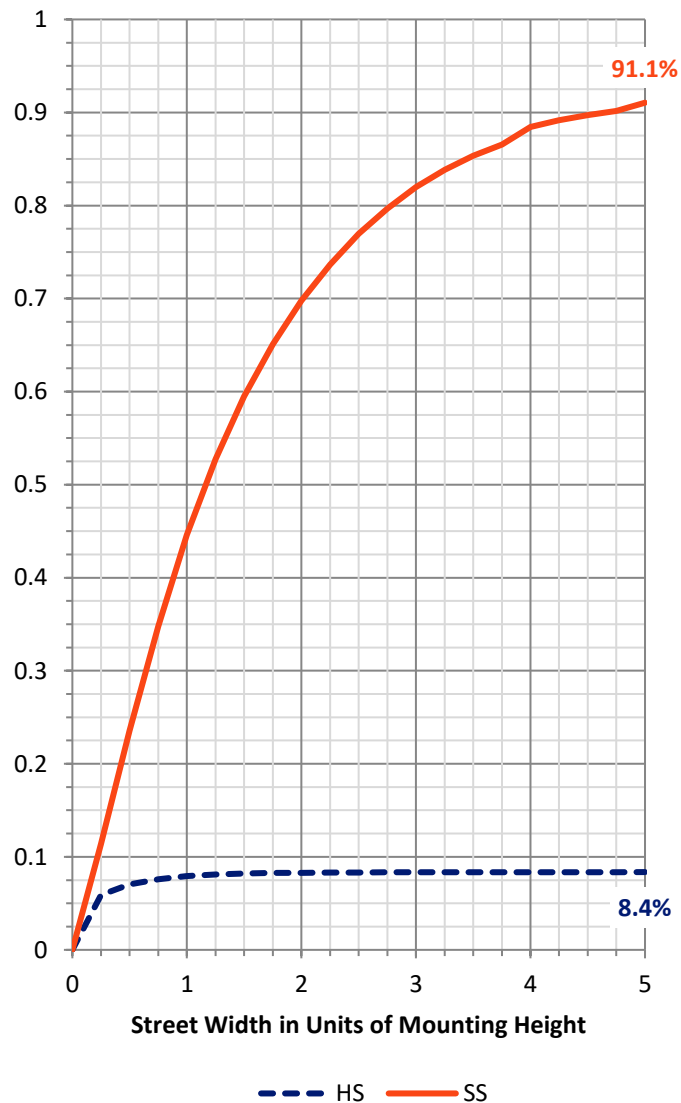
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	554.9	0.0	554.9
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	6039.1	0.0	6039.1
	% Fixture	91.6	0.0	91.6
Total	Lumens	6594.0	0.0	6594.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.3	1.6
10°-20°	252.7	3.8
20°-30°	401.9	6.1
30°-40°	604.2	9.2
40°-50°	921.7	14.0
50°-60°	1302.7	19.8
60°-70°	1634.1	24.8
70°-80°	1221.8	18.5
80°-90°	151.5	2.3
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°	6594.0	100.0
0°-180°	6594.0	100.0

Coefficient of Utilization



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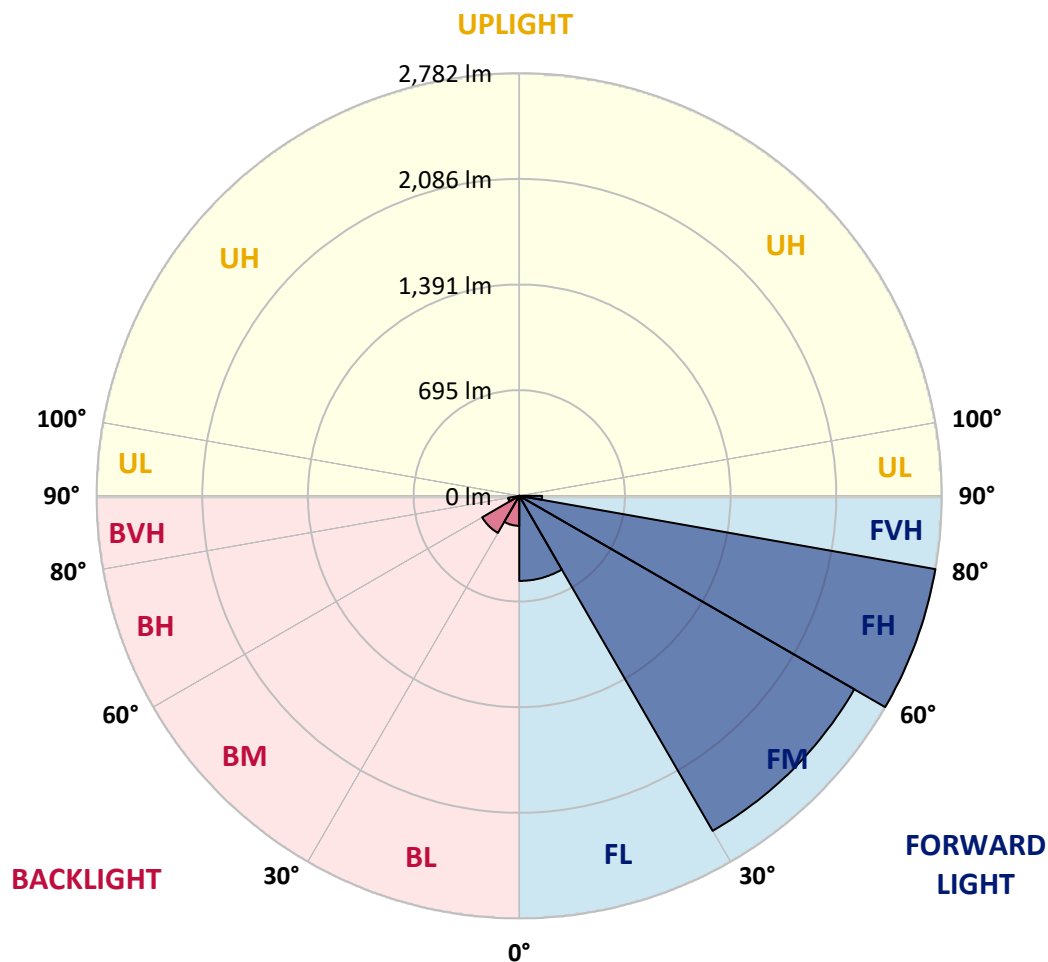
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	560.3	8.5			
FM	(30°-60°)	2546.9	38.6			
FH	(60°-80°)	2781.8	42.2			G2/5000
FVH	(80°-90°)	150.1	2.3			G2/225
BL	(0°-30°)	197.6	3.0	B1/500		
BM	(30°-60°)	281.8	4.3	B1/1000		
BH	(60°-80°)	74.1	1.1	B0/110		G0/110
BVH	(80°-90°)	1.4	0.0			G0/10
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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	1212.6	1212.6	1212.6	1212.6	1212.6	1212.6	1212.6	1212.6	1212.6	1212.6	1212.6
2.5°	1287.1	1287.4	1284.4	1279.4	1273.1	1269.8	1264.4	1255.6	1246.3	1229.6	1211.5
5°	1313.4	1313.4	1309.6	1303.0	1292.9	1289.8	1279.4	1265.5	1246.3	1219.2	1188.8
7.5°	1310.7	1311.2	1306.0	1299.2	1289.0	1286.3	1273.7	1258.1	1234.2	1201.4	1162.5
10°	1296.4	1297.8	1293.7	1290.4	1281.1	1278.1	1266.3	1250.7	1226.9	1191.8	1147.2
12.5°	1281.9	1283.3	1284.6	1287.7	1281.9	1280.8	1271.5	1258.3	1235.6	1199.2	1148.8
15°	1272.6	1275.3	1285.2	1297.0	1298.3	1297.2	1291.2	1278.9	1255.9	1218.1	1160.6
17.5°	1272.6	1277.0	1297.5	1320.0	1327.9	1328.7	1323.5	1306.3	1278.9	1238.4	1171.5
20°	1283.3	1289.3	1321.3	1353.1	1366.2	1366.2	1356.1	1332.0	1300.0	1256.7	1178.9
22.5°	1310.7	1318.6	1358.9	1395.5	1409.5	1406.5	1392.8	1357.8	1321.9	1277.5	1188.2
25°	1364.6	1370.6	1412.5	1449.5	1458.0	1451.1	1433.9	1389.0	1349.8	1305.7	1205.2
27.5°	1434.2	1435.0	1478.3	1509.5	1504.3	1499.6	1478.0	1428.1	1390.1	1346.0	1234.5
30°	1510.6	1510.6	1548.6	1572.5	1556.6	1552.7	1531.1	1475.5	1441.6	1400.8	1276.1
32.5°	1584.5	1587.8	1618.7	1633.8	1616.0	1612.2	1591.1	1535.5	1510.0	1484.3	1341.1
35°	1656.0	1658.4	1687.7	1696.0	1679.0	1680.1	1665.0	1617.9	1608.3	1605.0	1438.8
37.5°	1725.3	1725.8	1755.7	1760.9	1752.4	1761.7	1763.1	1721.4	1739.2	1765.8	1576.6
40°	1788.5	1789.1	1818.6	1832.1	1846.6	1858.6	1869.3	1847.1	1906.0	1967.6	1740.6
42.5°	1839.2	1844.9	1882.5	1907.9	1946.3	1969.3	1998.3	1997.2	2104.5	2197.1	1938.9
45°	1883.8	1893.7	1946.0	1990.6	2056.4	2093.0	2138.5	2174.1	2328.0	2452.6	2139.6
47.5°	1942.7	1952.0	2011.7	2084.8	2172.5	2220.7	2296.0	2372.9	2573.7	2703.5	2335.7
50°	2025.7	2021.6	2080.5	2185.3	2297.9	2361.1	2468.5	2583.8	2817.4	2922.0	2451.0
52.5°	2114.1	2112.5	2156.0	2294.6	2445.8	2519.7	2661.6	2801.8	3050.4	3072.6	2503.8
55°	2223.7	2211.9	2248.6	2419.2	2621.3	2700.7	2867.8	3017.6	3236.1	3157.5	2530.4
57.5°	2338.4	2319.0	2354.0	2558.0	2819.3	2913.2	3096.2	3227.9	3359.6	3215.6	2530.1
60°	2457.0	2434.0	2475.6	2731.7	3065.2	3173.9	3343.7	3370.0	3474.9	3244.9	2511.5
62.5°	2556.1	2542.4	2604.3	2917.3	3339.9	3446.7	3530.8	3499.3	3572.1	3267.6	2468.0
65°	2661.0	2661.8	2761.8	3134.0	3631.8	3703.8	3711.0	3666.9	3653.5	3262.9	2320.6
67.5°	2802.9	2816.0	2982.8	3428.1	3915.8	3971.4	3970.8	3848.4	3712.9	3077.8	1993.9
70°	2952.9	2983.9	3237.5	3764.6	4225.8	4282.2	4253.2	3964.0	3496.0	2488.8	1411.2
72.5°	2927.7	2981.4	3379.1	3976.9	4448.4	4491.4	4302.8	3680.0	2763.2	1446.5	600.8
75°	2258.7	2320.9	3098.4	3766.6	4214.8	4176.2	3697.0	2863.7	1510.0	403.7	135.3
77.5°	1193.2	1226.3	2046.8	2869.4	3286.5	3205.7	2604.3	1588.6	460.3	100.0	60.8
80°	624.9	632.6	891.9	1628.0	2028.4	2029.0	1543.4	697.8	189.8	51.2	40.8
82.5°	334.6	341.2	471.3	752.3	1062.8	963.4	591.0	383.9	110.4	29.0	39.2
85°	80.5	81.9	267.3	343.7	417.9	298.5	175.5	322.3	29.8	17.0	31.8
87.5°	30.9	31.5	99.1	148.7	106.5	69.0	82.2	120.2	3.8	6.6	4.9
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°	1212.6	1212.6	1212.6	1212.6	1212.6	1212.6	1212.6	1212.6	1212.6	1212.6	1212.6
2.5°	1200.6	1193.4	1175.9	1153.7	1134.0	1119.8	1098.4	1084.5	1075.1	1074.9	1071.3
5°	1170.2	1155.7	1117.9	1073.0	1032.1	995.5	952.2	918.0	892.5	888.4	879.6
7.5°	1137.6	1113.8	1055.7	985.6	917.1	847.6	766.8	716.7	673.7	653.1	650.9
10°	1117.6	1084.2	1001.7	900.4	793.1	680.0	574.3	501.1	448.3	433.2	422.0
12.5°	1113.5	1069.4	960.1	820.5	667.1	517.6	400.6	322.9	280.7	267.3	263.7
15°	1117.6	1062.5	925.1	741.3	539.5	367.2	268.9	223.7	207.9	204.0	203.7
17.5°	1120.1	1054.3	885.4	653.4	415.7	262.3	205.9	192.8	190.3	190.1	190.6
20°	1119.8	1041.7	838.0	555.4	309.2	206.2	186.2	183.5	182.9	183.2	182.9
22.5°	1117.9	1026.9	786.0	454.3	233.6	184.3	177.7	176.1	175.8	175.8	175.8
25°	1121.4	1015.2	728.7	357.7	192.5	174.2	170.1	168.7	168.4	168.4	167.9
27.5°	1134.3	1008.6	666.0	275.2	173.9	165.1	161.8	161.6	160.8	160.5	161.0
30°	1155.1	1008.6	597.3	214.2	162.7	155.8	153.4	152.8	152.5	152.3	152.5
32.5°	1191.8	1016.3	522.2	178.0	152.0	145.4	143.8	144.6	143.8	143.8	143.8
35°	1258.1	1039.3	443.6	155.3	140.8	135.3	133.6	134.7	134.2	134.2	133.9
37.5°	1354.7	1082.0	364.5	141.6	130.9	125.2	123.0	124.6	124.1	124.1	123.8
40°	1472.5	1144.2	289.2	131.2	121.3	115.3	113.4	114.2	112.8	112.8	113.4
42.5°	1617.9	1223.0	223.5	121.0	111.7	106.0	104.9	104.1	101.6	100.2	100.5
45°	1779.5	1305.2	174.2	111.2	102.7	98.0	96.4	94.2	90.1	87.4	87.6
47.5°	1923.8	1368.4	141.6	101.6	94.5	90.9	88.5	84.3	78.3	75.0	75.3
50°	1999.7	1378.0	120.5	92.0	86.8	83.3	79.7	73.4	66.3	62.7	62.4
52.5°	2019.1	1333.1	104.9	83.3	79.1	75.0	70.4	61.9	53.9	50.1	49.6
55°	2026.2	1264.6	90.9	75.0	70.9	66.3	60.2	50.7	43.3	39.4	39.2
57.5°	2002.7	1162.5	80.0	67.6	62.7	57.0	49.6	40.5	33.4	30.4	30.4
60°	1950.4	1024.2	71.5	59.7	54.2	47.7	40.0	31.5	24.9	22.5	22.5
62.5°	1846.0	845.1	63.5	51.5	46.3	39.4	32.3	23.8	17.5	16.2	16.4
65°	1649.1	641.1	55.6	44.1	39.4	32.6	25.2	17.0	11.8	11.8	12.3
67.5°	1344.9	445.3	47.4	37.5	34.0	26.6	19.2	11.8	8.2	9.3	10.4
70°	890.3	249.8	40.5	30.9	29.0	21.1	14.2	7.9	6.6	8.8	10.7
72.5°	336.0	97.2	34.0	24.9	25.2	16.2	10.1	6.0	6.0	9.6	12.6
75°	93.7	47.7	24.4	18.3	19.7	11.8	7.4	5.2	5.8	11.0	14.8
77.5°	55.0	35.1	15.9	10.7	13.4	8.2	4.9	4.1	4.9	9.3	14.2
80°	44.4	18.6	9.3	5.5	7.4	4.7	3.3	2.5	1.4	3.6	7.4
82.5°	44.4	11.2	4.4	3.8	3.8	2.5	1.6	1.1	0.3	0.0	1.9
85°	29.8	4.7	2.7	2.5	1.9	0.8	0.5	0.3	0.0	0.0	0.0
87.5°	4.9	1.9	1.1	0.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0
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)