

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: P323746

Luminaire Tested: **GAN-SA2A-727-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323746
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-SA2A-727-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH 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: 6472 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

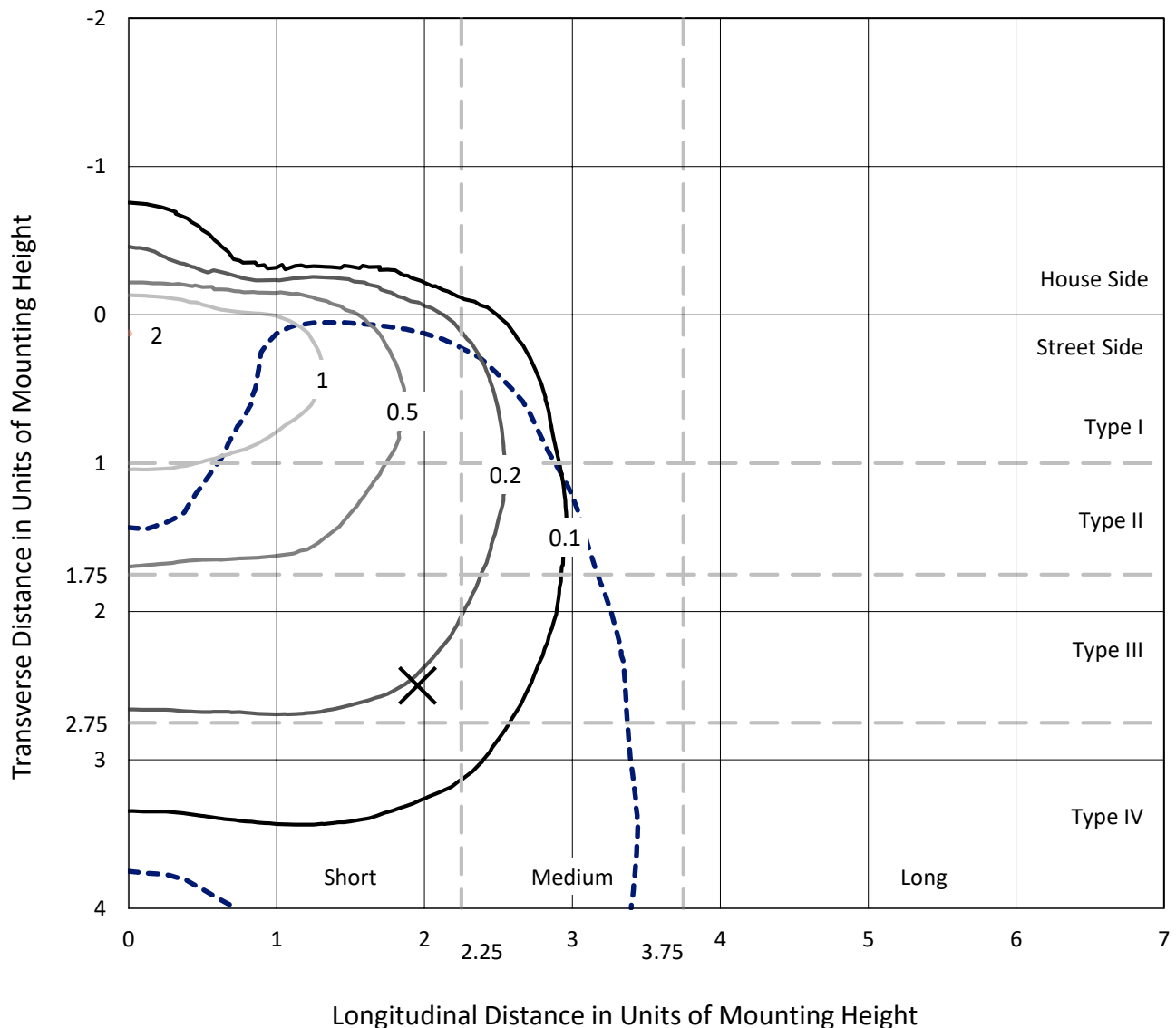
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

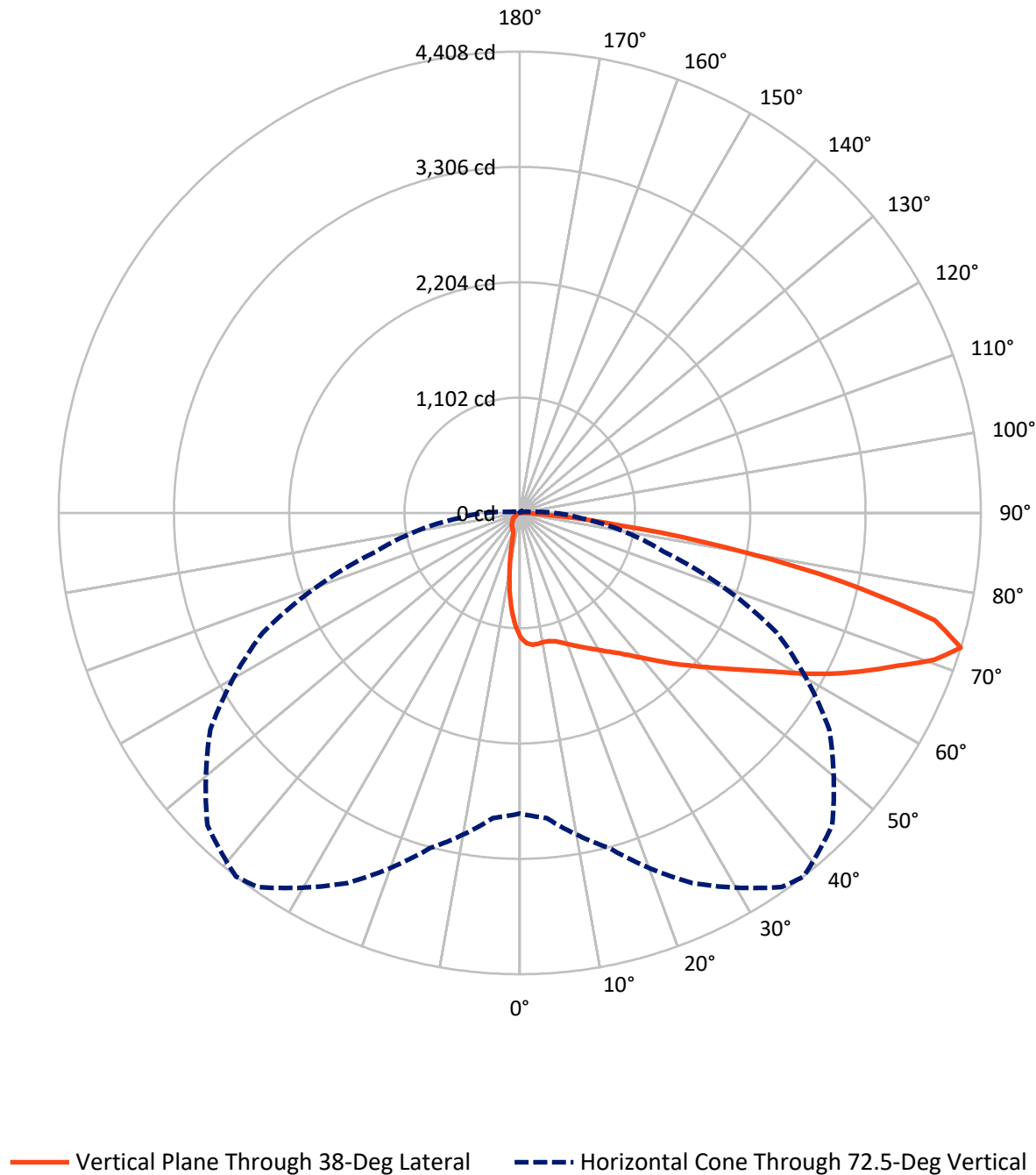
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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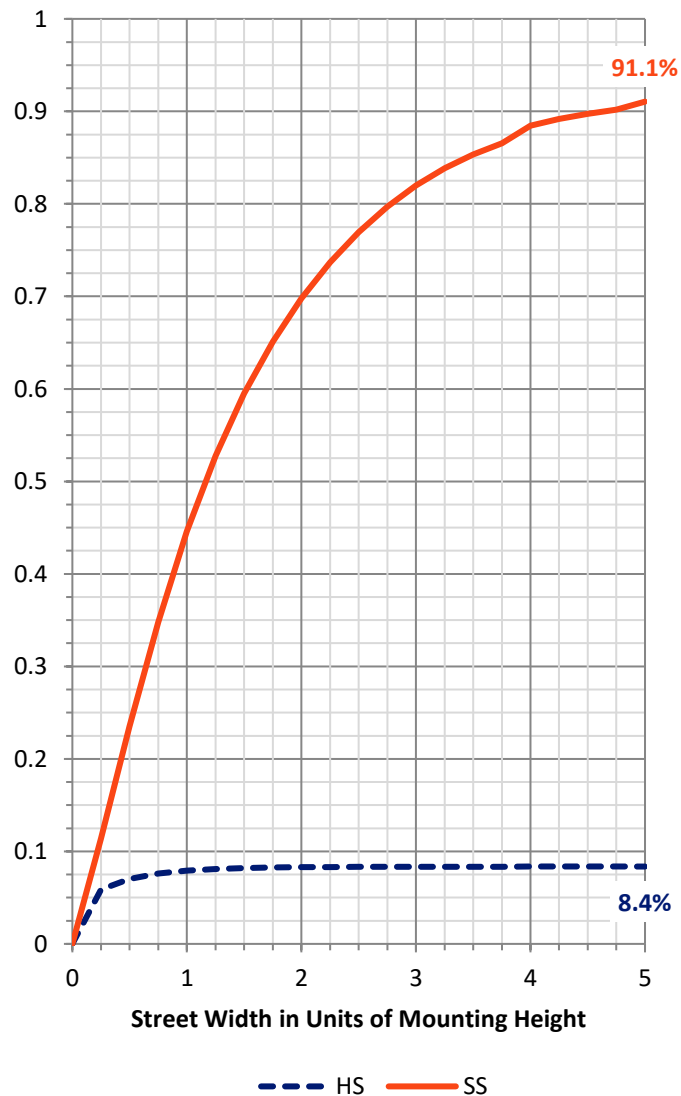
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	544.6	0.0	544.6
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	5927.4	0.0	5927.4
	% Fixture	91.6	0.0	91.6
Total	Lumens	6472.0	0.0	6472.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.4	1.6
10°-20°	248.0	3.8
20°-30°	394.5	6.1
30°-40°	593.0	9.2
40°-50°	904.7	14.0
50°-60°	1278.6	19.8
60°-70°	1603.8	24.8
70°-80°	1199.2	18.5
80°-90°	148.7	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°	6472.0	100.0
0°-180°	6472.0	100.0

Coefficient of Utilization



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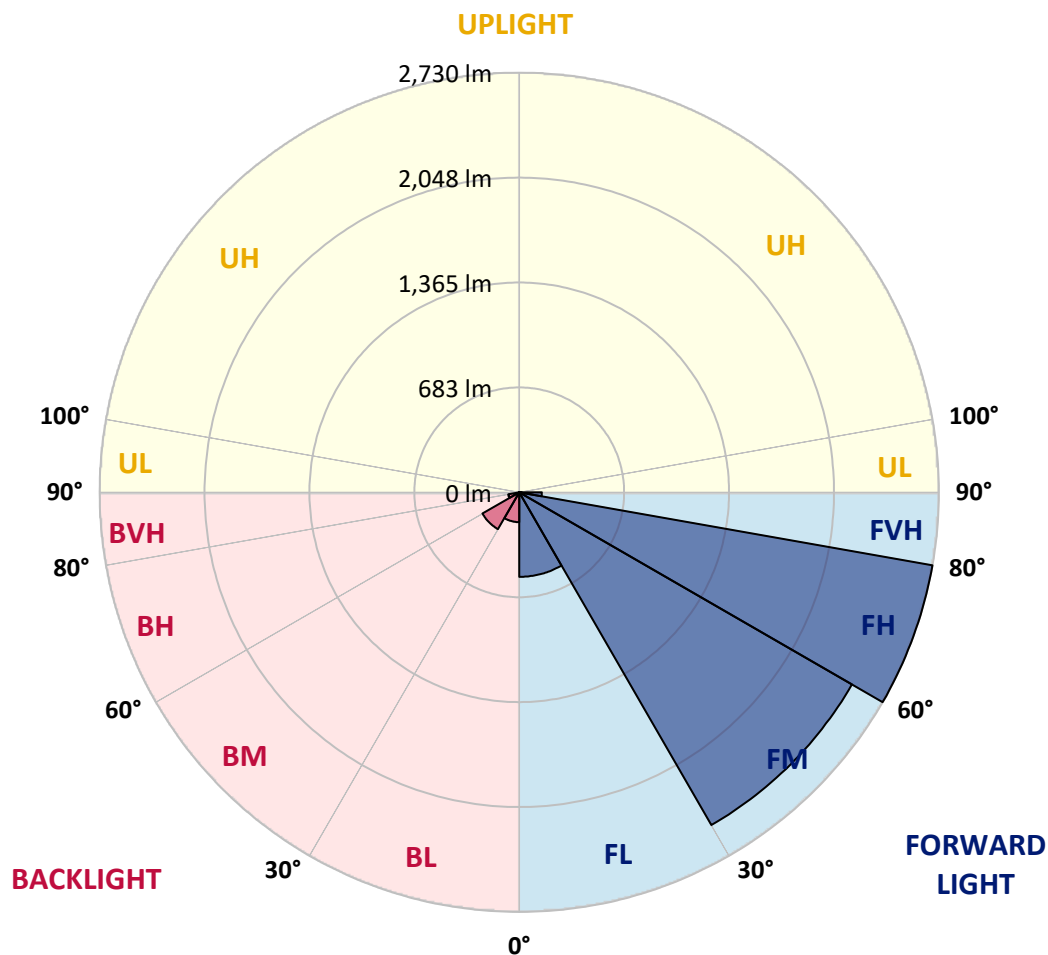
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	550.0	8.5			
FM	(30°-60°)	2499.8	38.6			
FH	(60°-80°)	2730.3	42.2			G2/5000
FVH	(80°-90°)	147.3	2.3			G2/225
BL	(0°-30°)	193.9	3.0	B1/500		
BM	(30°-60°)	276.6	4.3	B1/1000		
BH	(60°-80°)	72.8	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°	1190.2	1190.2	1190.2	1190.2	1190.2	1190.2	1190.2	1190.2	1190.2	1190.2	1190.2
2.5°	1263.3	1263.6	1260.6	1255.8	1249.6	1246.4	1241.0	1232.4	1223.2	1206.8	1189.1
5°	1289.1	1289.1	1285.3	1278.9	1268.9	1266.0	1255.8	1242.1	1223.2	1196.6	1166.8
7.5°	1286.4	1286.9	1281.8	1275.1	1265.2	1262.5	1250.1	1234.8	1211.4	1179.2	1141.0
10°	1272.4	1273.8	1269.7	1266.5	1257.4	1254.4	1242.9	1227.5	1204.2	1169.8	1125.9
12.5°	1258.2	1259.5	1260.9	1263.8	1258.2	1257.1	1248.0	1235.1	1212.8	1177.0	1127.6
15°	1249.0	1251.7	1261.4	1273.0	1274.3	1273.2	1267.3	1255.2	1232.6	1195.6	1139.1
17.5°	1249.0	1253.3	1273.5	1295.5	1303.3	1304.1	1299.0	1282.1	1255.2	1215.4	1149.9
20°	1259.5	1265.4	1296.9	1328.1	1341.0	1341.0	1331.0	1307.4	1275.9	1233.5	1157.1
22.5°	1286.4	1294.2	1333.7	1369.7	1383.4	1380.5	1367.0	1332.6	1297.4	1253.9	1166.3
25°	1339.4	1345.3	1386.4	1422.7	1431.0	1424.3	1407.4	1363.3	1324.8	1281.6	1182.9
27.5°	1407.6	1408.4	1450.9	1481.5	1476.4	1471.9	1450.6	1401.7	1364.4	1321.1	1211.7
30°	1482.6	1482.6	1520.0	1543.4	1527.8	1524.0	1502.8	1448.2	1414.9	1374.8	1252.5
32.5°	1555.2	1558.4	1588.8	1603.6	1586.1	1582.3	1561.6	1507.1	1482.1	1456.8	1316.2
35°	1625.3	1627.8	1656.5	1664.6	1647.9	1649.0	1634.2	1588.0	1578.6	1575.3	1412.2
37.5°	1693.3	1693.9	1723.2	1728.3	1720.0	1729.1	1730.4	1689.6	1707.1	1733.1	1547.4
40°	1755.4	1756.0	1785.0	1798.2	1812.4	1824.2	1834.7	1813.0	1870.7	1931.2	1708.4
42.5°	1805.2	1810.8	1847.6	1872.6	1910.3	1932.8	1961.3	1960.2	2065.6	2156.5	1903.0
45°	1849.0	1858.6	1910.0	1953.8	2018.3	2054.3	2098.9	2133.9	2284.9	2407.2	2100.0
47.5°	1906.8	1915.9	1974.5	2046.3	2132.3	2179.6	2253.5	2329.0	2526.0	2653.4	2292.5
50°	1988.2	1984.2	2042.0	2144.9	2255.4	2317.5	2422.8	2536.0	2765.3	2867.9	2405.6
52.5°	2075.0	2073.4	2116.1	2252.1	2400.5	2473.1	2612.3	2749.9	2994.0	3015.8	2457.5
55°	2182.5	2171.0	2207.0	2374.4	2572.8	2650.8	2814.7	2961.7	3176.2	3099.1	2483.6
57.5°	2295.2	2276.1	2310.5	2510.7	2767.1	2859.3	3038.9	3168.2	3297.5	3156.1	2483.3
60°	2411.5	2389.0	2429.8	2681.1	3008.5	3115.2	3281.9	3307.7	3410.6	3184.8	2465.0
62.5°	2508.8	2495.4	2556.1	2863.4	3278.1	3382.9	3465.4	3434.5	3506.0	3207.1	2422.3
65°	2611.8	2612.6	2710.7	3076.0	3564.6	3635.3	3642.3	3599.0	3585.9	3202.6	2277.7
67.5°	2751.0	2763.9	2927.6	3364.6	3843.4	3897.9	3897.4	3777.2	3644.2	3020.9	1957.0
70°	2898.3	2928.7	3177.6	3695.0	4147.6	4203.0	4174.5	3890.7	3431.3	2442.7	1385.0
72.5°	2873.6	2926.3	3316.5	3903.3	4366.1	4408.3	4223.1	3611.9	2712.0	1419.7	589.7
75°	2216.9	2278.0	3041.0	3696.9	4136.9	4099.0	3628.6	2810.7	1482.1	396.2	132.8
77.5°	1171.1	1203.6	2008.9	2816.3	3225.7	3146.4	2556.1	1559.2	451.8	98.1	59.7
80°	613.4	620.9	875.4	1597.9	1990.9	1991.4	1514.9	684.9	186.3	50.3	40.0
82.5°	328.5	334.9	462.6	738.4	1043.2	945.6	580.0	376.8	108.3	28.5	38.4
85°	79.0	80.4	262.3	337.3	410.2	293.0	172.3	316.4	29.3	16.7	31.2
87.5°	30.4	30.9	97.3	146.0	104.6	67.7	80.6	118.0	3.8	6.5	4.8
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°	1190.2	1190.2	1190.2	1190.2	1190.2	1190.2	1190.2	1190.2	1190.2	1190.2	1190.2
2.5°	1178.4	1171.4	1154.2	1132.4	1113.0	1099.1	1078.1	1064.4	1055.2	1055.0	1051.5
5°	1148.5	1134.3	1097.2	1053.1	1013.1	977.0	934.6	901.0	876.0	871.9	863.3
7.5°	1116.5	1093.1	1036.2	967.4	900.2	831.9	752.6	703.4	661.2	641.1	638.9
10°	1096.9	1064.1	983.2	883.8	778.4	667.4	563.6	491.9	440.0	425.2	414.2
12.5°	1092.9	1049.6	942.4	805.3	654.8	508.0	393.2	316.9	275.5	262.3	258.8
15°	1096.9	1042.9	908.0	727.6	529.5	360.4	263.9	219.6	204.0	200.2	200.0
17.5°	1099.3	1034.8	869.0	641.3	408.0	257.5	202.1	189.2	186.8	186.5	187.1
20°	1099.1	1022.5	822.5	545.1	303.5	202.4	182.8	180.1	179.5	179.8	179.5
22.5°	1097.2	1007.9	771.4	445.9	229.3	180.9	174.4	172.8	172.6	172.6	172.6
25°	1100.7	996.4	715.2	351.0	189.0	170.9	166.9	165.6	165.3	165.3	164.8
27.5°	1113.3	989.9	653.7	270.1	170.7	162.1	158.9	158.6	157.8	157.5	158.0
30°	1133.7	989.9	586.2	210.2	159.7	152.9	150.5	150.0	149.7	149.4	149.7
32.5°	1169.8	997.5	512.6	174.7	149.2	142.7	141.1	141.9	141.1	141.1	141.1
35°	1234.8	1020.0	435.4	152.4	138.2	132.8	131.2	132.2	131.7	131.7	131.4
37.5°	1329.7	1062.0	357.8	139.0	128.5	122.8	120.7	122.3	121.8	121.8	121.5
40°	1445.3	1123.0	283.8	128.7	119.1	113.2	111.3	112.1	110.7	110.7	111.3
42.5°	1588.0	1200.4	219.3	118.8	109.7	104.0	102.9	102.1	99.7	98.4	98.6
45°	1746.6	1281.0	170.9	109.1	100.8	96.2	94.6	92.5	88.4	85.7	86.0
47.5°	1888.2	1343.1	139.0	99.7	92.7	89.2	86.8	82.8	76.9	73.6	73.9
50°	1962.7	1352.5	118.3	90.3	85.2	81.7	78.2	72.0	65.0	61.6	61.3
52.5°	1981.8	1308.4	102.9	81.7	77.7	73.6	69.1	60.7	53.0	49.2	48.7
55°	1988.7	1241.2	89.2	73.6	69.6	65.0	59.1	49.7	42.5	38.7	38.4
57.5°	1965.6	1141.0	78.5	66.4	61.6	55.9	48.7	39.8	32.8	29.8	29.8
60°	1914.3	1005.3	70.2	58.6	53.2	46.8	39.2	30.9	24.5	22.0	22.0
62.5°	1811.9	829.5	62.4	50.5	45.4	38.7	31.7	23.4	17.2	15.9	16.1
65°	1618.6	629.2	54.6	43.3	38.7	32.0	24.7	16.7	11.6	11.6	12.1
67.5°	1320.0	437.0	46.5	36.8	33.3	26.1	18.8	11.6	8.1	9.1	10.2
70°	873.8	245.1	39.8	30.4	28.5	20.7	14.0	7.8	6.5	8.6	10.5
72.5°	329.8	95.4	33.3	24.5	24.7	15.9	9.9	5.9	5.9	9.4	12.4
75°	91.9	46.8	23.9	18.0	19.4	11.6	7.3	5.1	5.6	10.8	14.5
77.5°	54.0	34.4	15.6	10.5	13.2	8.1	4.8	4.0	4.8	9.1	14.0
80°	43.5	18.3	9.1	5.4	7.3	4.6	3.2	2.4	1.3	3.5	7.3
82.5°	43.5	11.0	4.3	3.8	3.8	2.4	1.6	1.1	0.3	0.0	1.9
85°	29.3	4.6	2.7	2.4	1.9	0.8	0.5	0.3	0.0	0.0	0.0
87.5°	4.8	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)