

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: P318626

Luminaire Tested: **GAN-SA2A-727-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318626
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-727-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 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: 8021 lumens
Efficiency: N/A
Efficacy: 121.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

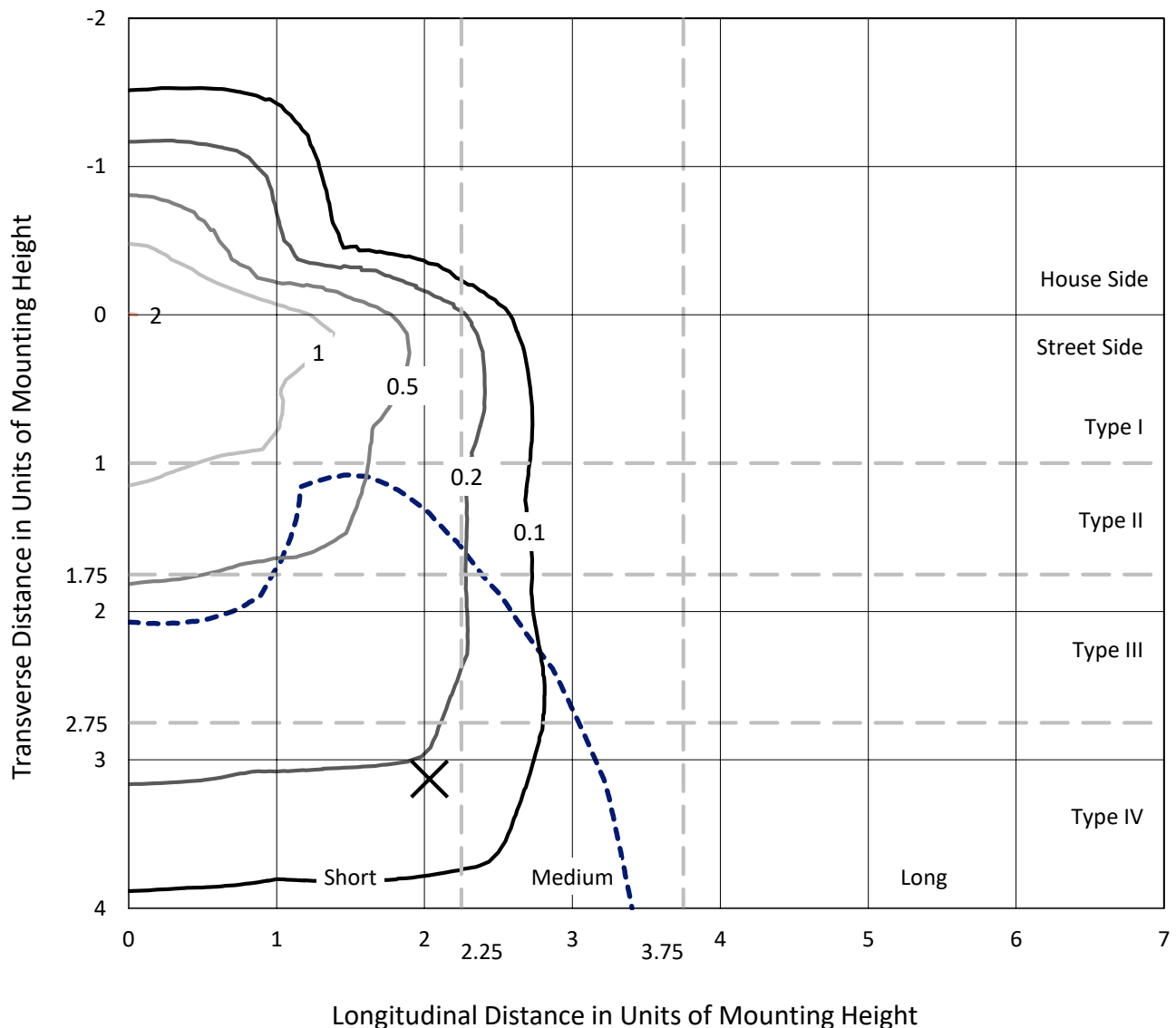
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

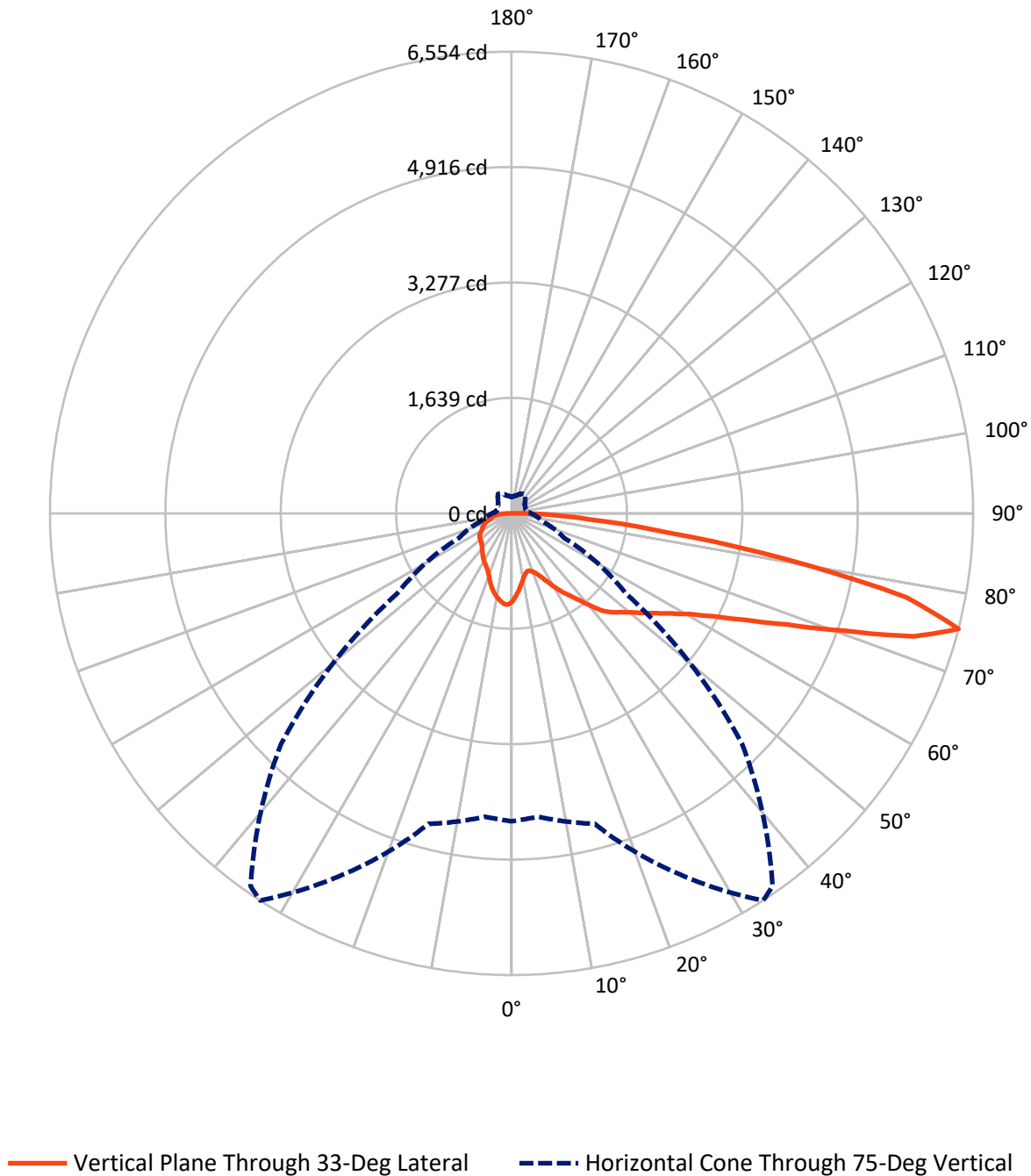
× Max cd
- - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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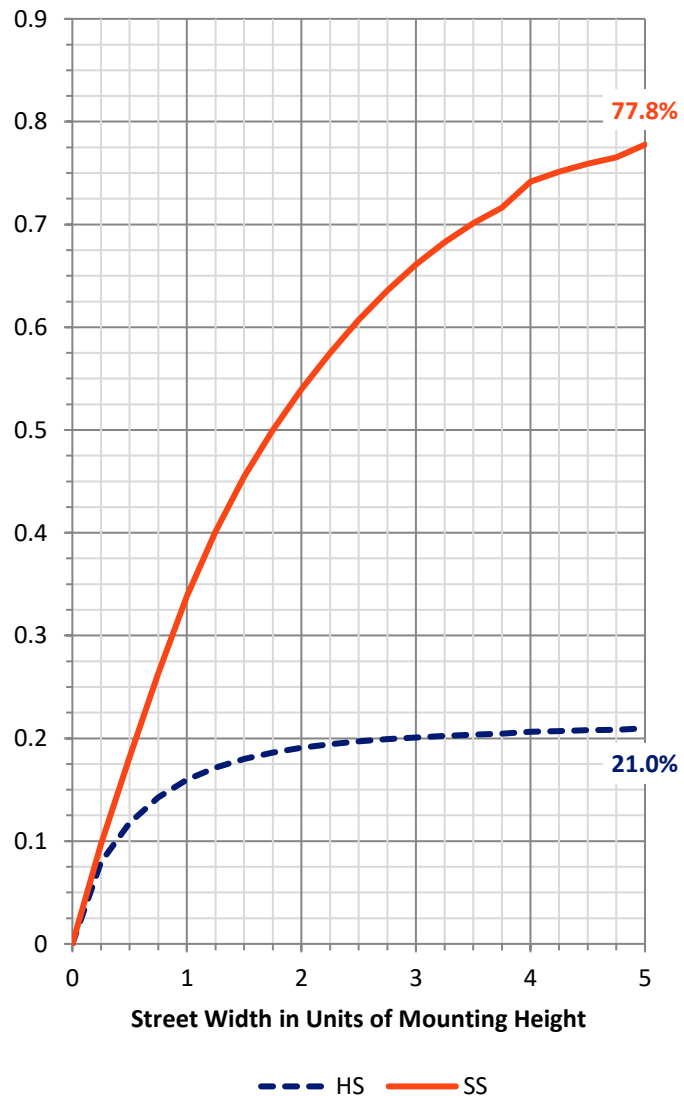
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1722.3	0.0	1722.3
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	6298.7	0.0	6298.7
	% Fixture	78.5	0.0	78.5
Total	Lumens	8021.0	0.0	8021.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.4	1.4
10°-20°	307.1	3.8
20°-30°	501.5	6.3
30°-40°	746.9	9.3
40°-50°	1071.2	13.4
50°-60°	1470.6	18.3
60°-70°	1841.2	23.0
70°-80°	1665.6	20.8
80°-90°	303.4	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°	8021.0	100.0
0°-180°	8021.0	100.0

Coefficient of Utilization



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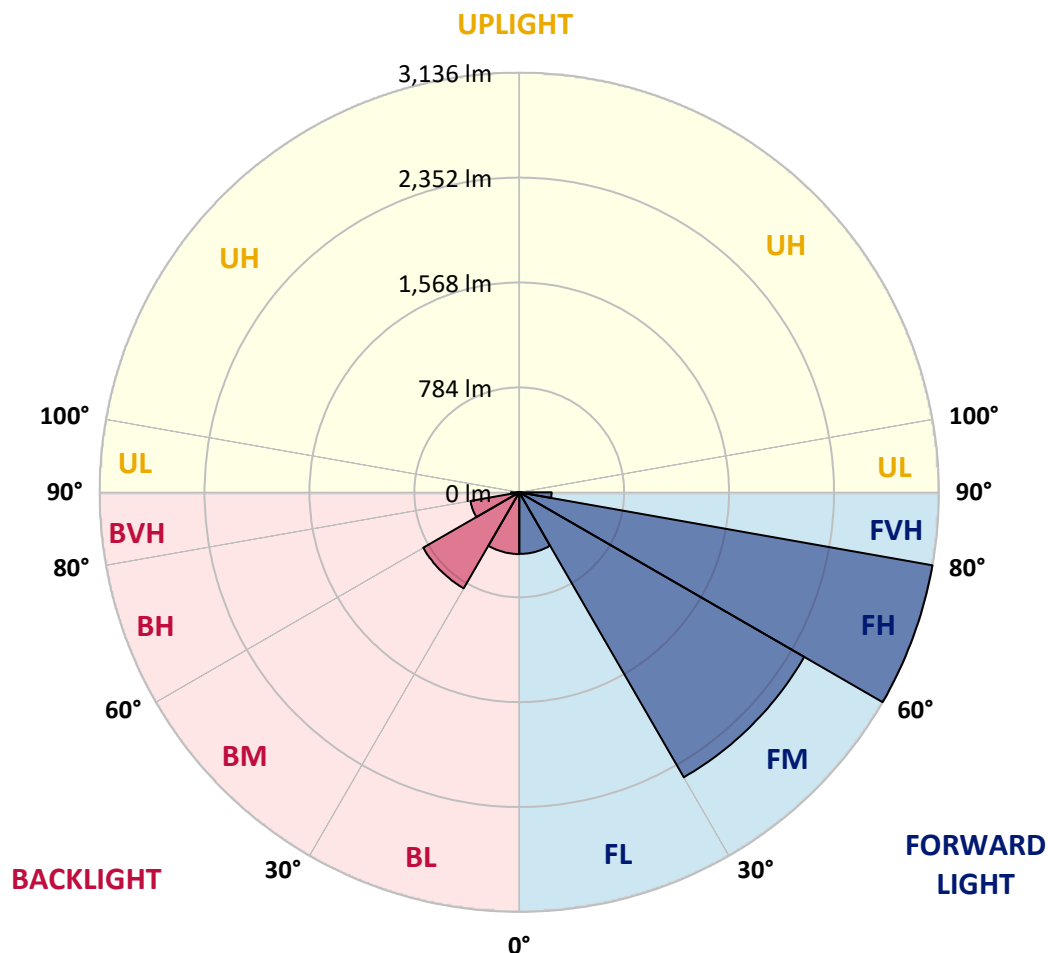
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	460.7	5.7			
FM	(30°-60°)	2459.9	30.7			
FH	(60°-80°)	3136.5	39.1			G2/5000
FVH	(80°-90°)	241.6	3.0			G3/500
BL	(0°-30°)	461.3	5.8	B1/500		
BM	(30°-60°)	828.9	10.3	B1/1000		
BH	(60°-80°)	370.3	4.6	B1/500		G1/500
BVH	(80°-90°)	61.8	0.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	1253.7	1253.7	1253.7	1253.7	1253.7	1253.7	1253.7	1253.7	1253.7	1253.7	1253.7
2.5°	1164.2	1159.8	1168.1	1169.2	1176.4	1179.2	1189.2	1204.7	1217.4	1232.1	1245.4
5°	1058.7	1055.6	1067.3	1075.6	1091.4	1098.0	1121.6	1154.5	1183.9	1217.2	1247.4
7.5°	958.4	956.7	969.7	988.6	1006.9	1016.0	1056.7	1104.7	1153.7	1207.5	1253.7
10°	873.9	873.3	885.8	904.3	931.2	941.5	994.1	1057.3	1126.0	1200.0	1264.5
12.5°	826.5	828.4	834.2	849.8	874.7	885.0	943.4	1017.7	1102.7	1197.5	1280.3
15°	838.1	841.2	831.2	830.6	848.4	856.4	911.3	989.4	1086.1	1201.6	1303.3
17.5°	887.7	888.3	862.0	845.3	856.1	860.3	901.3	973.3	1076.4	1211.1	1332.1
20°	957.5	956.2	909.6	881.9	887.7	888.8	915.4	973.6	1075.6	1227.4	1369.5
22.5°	1050.1	1039.8	977.2	939.5	938.1	936.5	951.7	994.1	1087.8	1254.0	1414.1
25°	1170.9	1161.2	1075.0	1023.5	1012.4	1008.2	1010.5	1037.9	1111.9	1282.5	1464.0
27.5°	1305.3	1288.4	1205.2	1132.4	1109.4	1103.6	1090.3	1099.7	1138.2	1310.0	1523.3
30°	1417.8	1408.6	1336.0	1249.6	1222.4	1214.1	1179.2	1168.9	1176.1	1347.4	1598.1
32.5°	1480.6	1474.5	1430.5	1360.7	1335.5	1323.8	1274.5	1254.0	1237.1	1406.4	1699.5
35°	1556.8	1553.0	1526.4	1475.7	1438.3	1426.1	1387.8	1366.5	1323.0	1487.6	1830.6
37.5°	1653.8	1649.7	1650.2	1609.2	1564.6	1553.2	1528.0	1505.6	1434.4	1594.2	1973.0
40°	1763.5	1755.5	1752.4	1750.5	1722.2	1715.9	1702.6	1672.1	1574.0	1721.7	2113.5
42.5°	1928.7	1900.1	1839.2	1862.2	1890.1	1886.8	1897.6	1853.9	1729.2	1872.4	2250.6
45°	2088.0	2041.2	1935.9	1940.9	2002.1	2020.6	2101.6	2070.5	1897.4	2037.5	2392.5
47.5°	2160.6	2125.1	2035.6	2035.9	2096.6	2135.1	2312.4	2290.2	2074.1	2225.1	2565.6
50°	2241.7	2206.3	2125.9	2156.1	2209.1	2250.1	2516.0	2504.7	2242.3	2430.4	2773.2
52.5°	2330.4	2270.3	2219.3	2273.3	2347.6	2395.2	2720.0	2688.9	2396.6	2637.1	3011.7
55°	2331.5	2315.2	2354.0	2393.6	2504.7	2563.1	2933.6	2851.6	2522.4	2840.2	3205.9
57.5°	2464.2	2437.6	2519.9	2538.2	2683.4	2749.3	3146.1	2993.2	2650.4	2995.9	3310.7
60°	2639.9	2617.2	2684.5	2732.7	2904.5	2992.6	3373.0	3138.6	2751.0	3113.4	3305.7
62.5°	2943.3	2917.5	2916.7	2984.3	3215.6	3318.2	3627.6	3281.3	2790.9	3136.7	3164.7
65°	3387.4	3346.4	3269.1	3301.3	3645.4	3747.6	3912.2	3384.6	2738.3	3012.0	2801.4
67.5°	3819.6	3818.3	3723.2	3789.2	4212.8	4294.8	4236.4	3394.9	2574.0	2577.8	2157.0
70°	4250.5	4256.0	4240.0	4469.4	4979.4	5064.8	4581.6	3257.2	2204.6	1861.6	1292.2
72.5°	4591.8	4590.4	4671.3	5262.9	5974.4	5955.3	4872.5	2839.9	1582.9	1004.9	617.6
75°	4370.7	4322.5	4563.6	5655.8	6554.3	6460.9	4625.1	1981.0	821.5	457.4	332.5
77.5°	2850.7	2896.5	3250.3	4672.2	5733.1	5619.5	3393.2	924.3	387.1	300.1	241.0
80°	1032.4	1080.6	1521.9	2646.5	3949.9	3931.3	1671.0	379.9	261.8	226.6	175.7
82.5°	355.2	372.9	600.4	1175.3	2230.1	2313.2	628.7	215.8	190.3	160.7	120.2
85°	139.4	159.6	274.6	565.5	1124.9	1133.2	254.6	129.1	132.4	105.3	65.9
87.5°	52.9	64.3	131.3	262.7	513.7	471.8	91.2	61.5	75.4	62.6	31.3
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°	1253.7	1253.7	1253.7	1253.7	1253.7	1253.7	1253.7	1253.7	1253.7	1253.7	1253.7
2.5°	1255.7	1261.5	1273.7	1282.0	1290.9	1293.3	1294.5	1296.7	1298.9	1298.1	1298.3
5°	1263.4	1274.8	1294.5	1302.8	1306.6	1302.2	1293.6	1286.7	1281.7	1278.9	1278.1
7.5°	1276.2	1292.2	1313.3	1311.9	1303.0	1283.4	1261.2	1244.6	1230.7	1225.7	1223.0
10°	1293.1	1311.9	1326.6	1310.8	1285.0	1251.0	1217.7	1191.9	1171.2	1163.1	1161.7
12.5°	1314.7	1333.8	1336.6	1303.0	1260.4	1213.8	1168.7	1134.6	1103.6	1093.6	1091.4
15°	1342.7	1360.7	1343.5	1289.5	1229.9	1167.3	1108.8	1062.6	1029.9	1017.7	1013.2
17.5°	1372.0	1389.2	1344.9	1267.0	1190.0	1112.1	1038.7	991.3	953.9	939.8	938.1
20°	1407.2	1415.0	1339.1	1234.9	1135.1	1040.7	963.4	918.8	898.8	888.8	887.7
22.5°	1450.7	1442.4	1325.8	1191.4	1065.6	958.1	895.2	874.4	869.4	867.2	868.1
25°	1496.7	1471.2	1306.1	1134.6	977.8	875.5	845.3	851.1	857.8	857.0	857.0
27.5°	1547.4	1500.6	1275.9	1059.2	880.5	807.9	811.5	832.9	842.8	842.6	842.3
30°	1612.5	1533.8	1237.4	968.6	789.6	760.3	782.2	808.2	821.8	821.2	821.5
32.5°	1692.6	1570.4	1185.0	867.5	724.0	725.1	750.3	776.1	791.9	790.5	790.7
35°	1786.2	1611.4	1114.1	767.8	680.5	697.1	717.0	735.1	750.0	748.1	746.1
37.5°	1888.2	1651.6	1019.9	678.5	645.0	671.1	687.7	690.7	697.7	692.7	689.1
40°	1985.2	1682.3	898.5	605.4	609.3	648.9	659.7	647.5	635.0	633.4	628.4
42.5°	2069.7	1692.6	775.8	546.9	571.6	625.6	632.3	606.8	584.3	573.8	569.4
45°	2158.9	1696.2	661.4	497.9	535.3	604.8	612.0	578.0	546.4	523.7	516.2
47.5°	2275.5	1722.2	572.4	461.6	507.6	591.0	601.2	555.0	514.0	481.5	474.6
50°	2428.2	1773.8	500.1	433.9	489.6	581.8	593.5	532.5	487.4	448.3	441.4
52.5°	2597.8	1821.2	441.6	411.4	472.1	565.8	583.5	516.5	462.4	417.5	410.1
55°	2716.4	1784.9	394.5	388.2	449.4	542.8	569.6	502.9	426.7	387.6	381.0
57.5°	2739.1	1660.7	358.8	364.1	422.0	514.0	548.3	472.7	407.3	374.6	367.7
60°	2677.0	1487.8	332.2	341.9	392.6	477.7	508.4	451.3	388.7	360.7	354.9
62.5°	2521.0	1310.8	312.5	322.0	365.2	440.8	483.5	428.9	369.9	344.9	339.1
65°	2206.0	1100.5	293.7	304.2	339.7	409.0	461.0	408.1	351.3	332.2	326.7
67.5°	1665.2	824.3	276.0	285.4	317.0	381.2	436.7	387.6	333.3	321.1	314.5
70°	980.5	516.2	255.7	265.7	293.1	352.4	410.6	365.2	310.9	305.3	296.7
72.5°	456.3	310.6	232.7	242.4	263.2	313.9	377.1	335.8	284.3	272.1	260.4
75°	272.4	227.2	205.6	214.2	228.9	272.9	335.0	305.9	259.1	243.0	230.8
77.5°	203.6	173.7	175.7	184.8	196.7	238.8	296.7	282.3	239.7	227.2	218.9
80°	146.6	131.9	143.2	153.2	165.7	217.2	284.3	261.0	216.7	200.0	192.3
82.5°	97.8	94.8	107.8	118.0	130.2	190.1	267.1	228.6	185.1	164.0	146.8
85°	54.0	57.1	72.6	77.0	87.6	133.8	218.9	183.7	139.4	112.2	107.2
87.5°	22.4	26.3	39.1	37.7	46.5	79.8	144.1	110.8	88.7	66.2	51.5
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)