

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: P319106

Luminaire Tested: **GAN-SA2A-760-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319106
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2A-760-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9468 lumens
Efficiency: N/A
Efficacy: 143.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

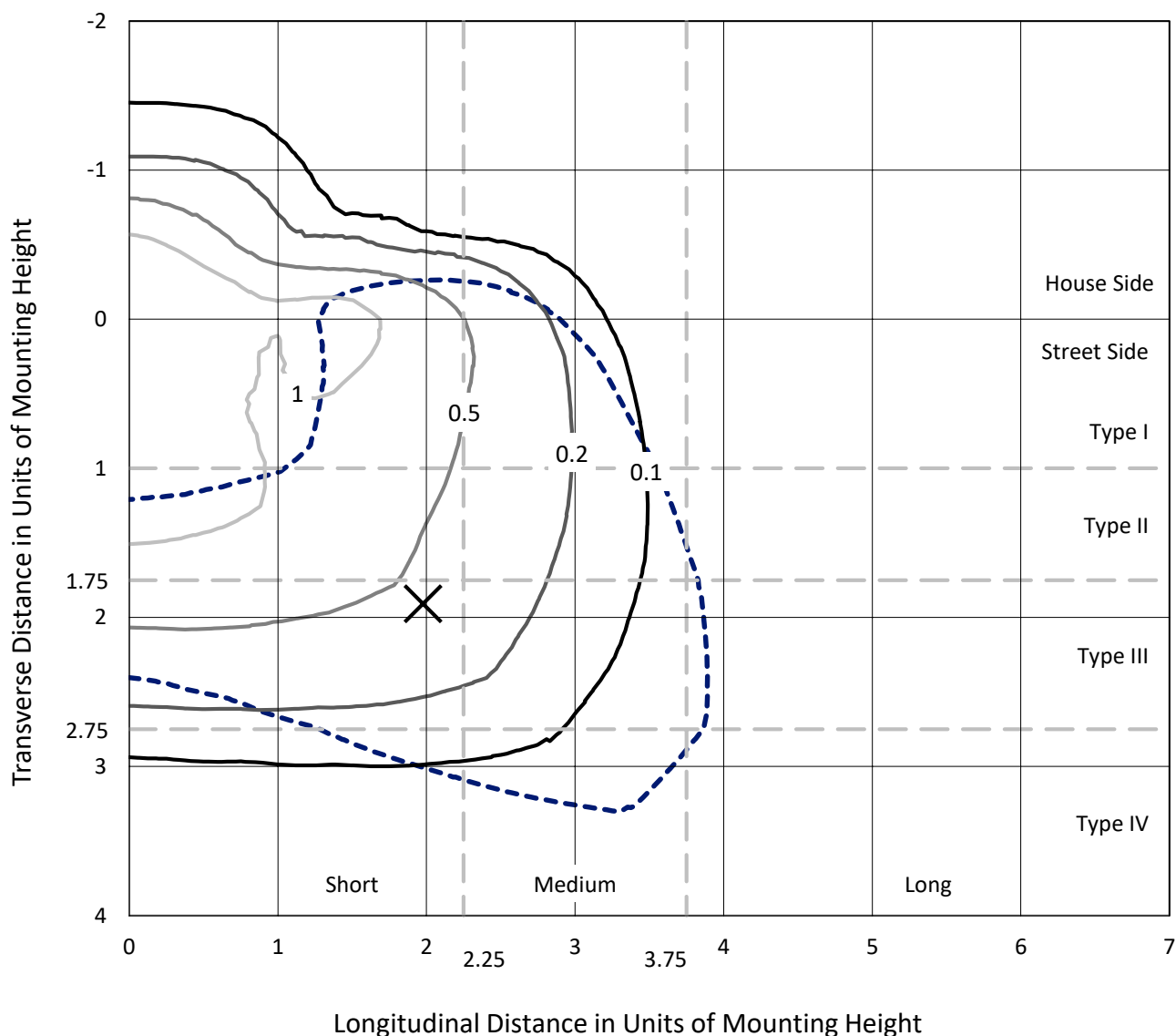
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

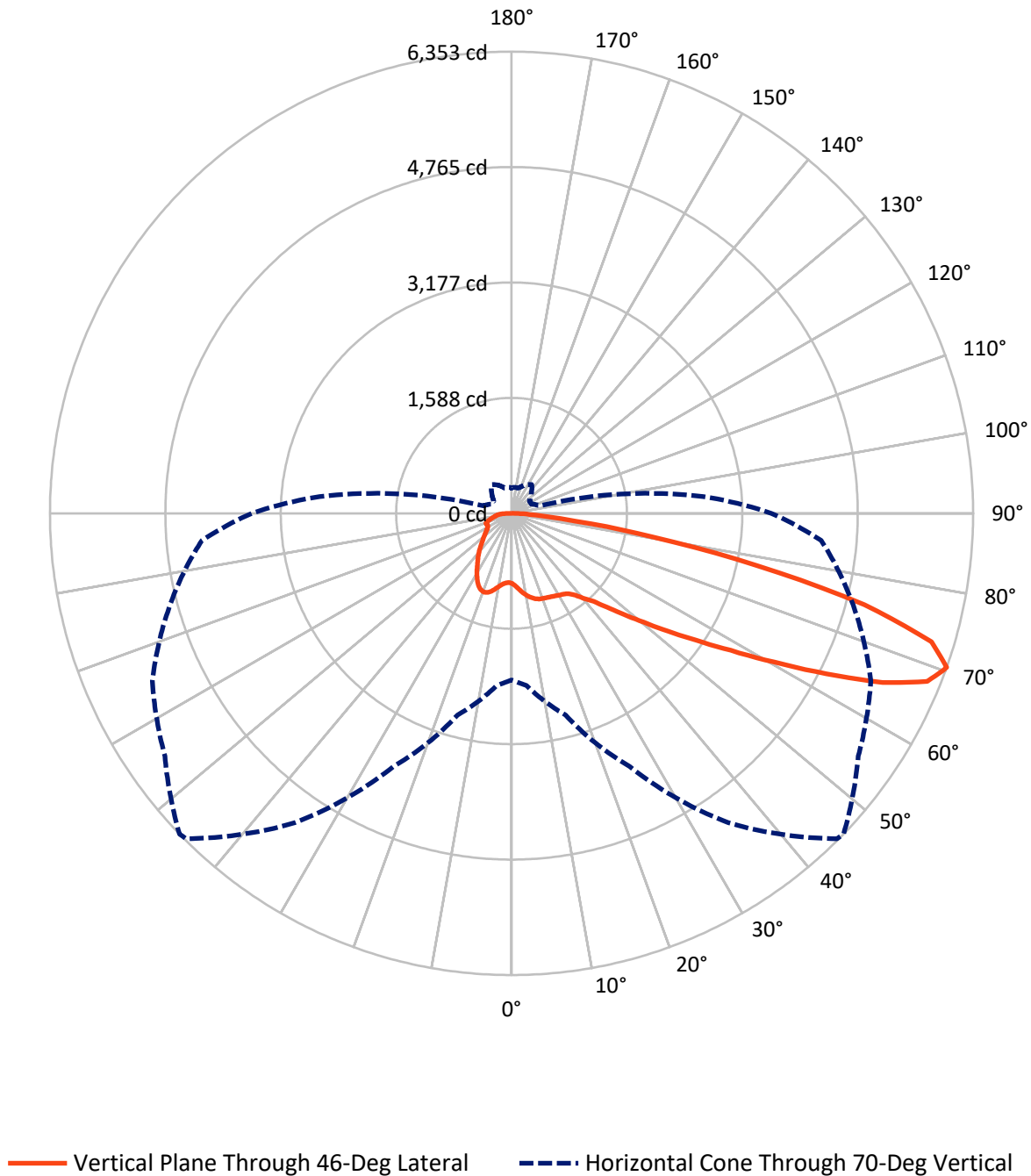
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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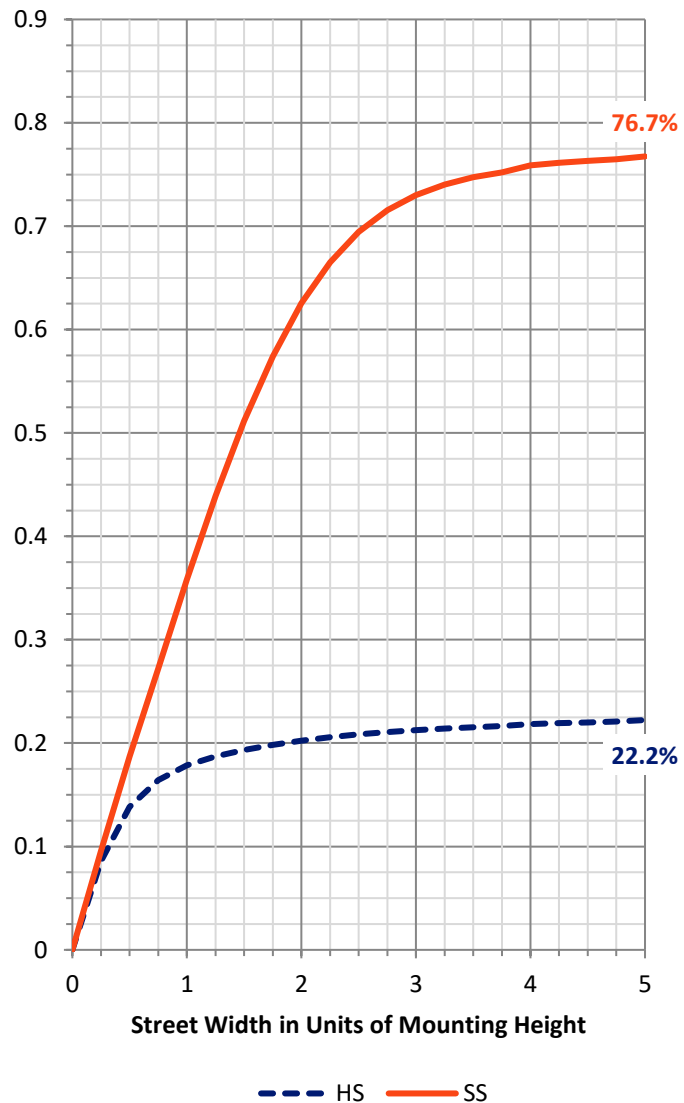
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2170.0	0.0	2170.0
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	7298.0	0.0	7298.0
	% Fixture	77.1	0.0	77.1
Total	Lumens	9468.0	0.0	9468.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.3	1.0
10°-20°	327.6	3.5
20°-30°	546.3	5.8
30°-40°	775.2	8.2
40°-50°	1140.3	12.0
50°-60°	1931.0	20.4
60°-70°	2741.1	29.0
70°-80°	1665.2	17.6
80°-90°	243.0	2.6
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°	9468.0	100.0
0°-180°	9468.0	100.0

Coefficient of Utilization



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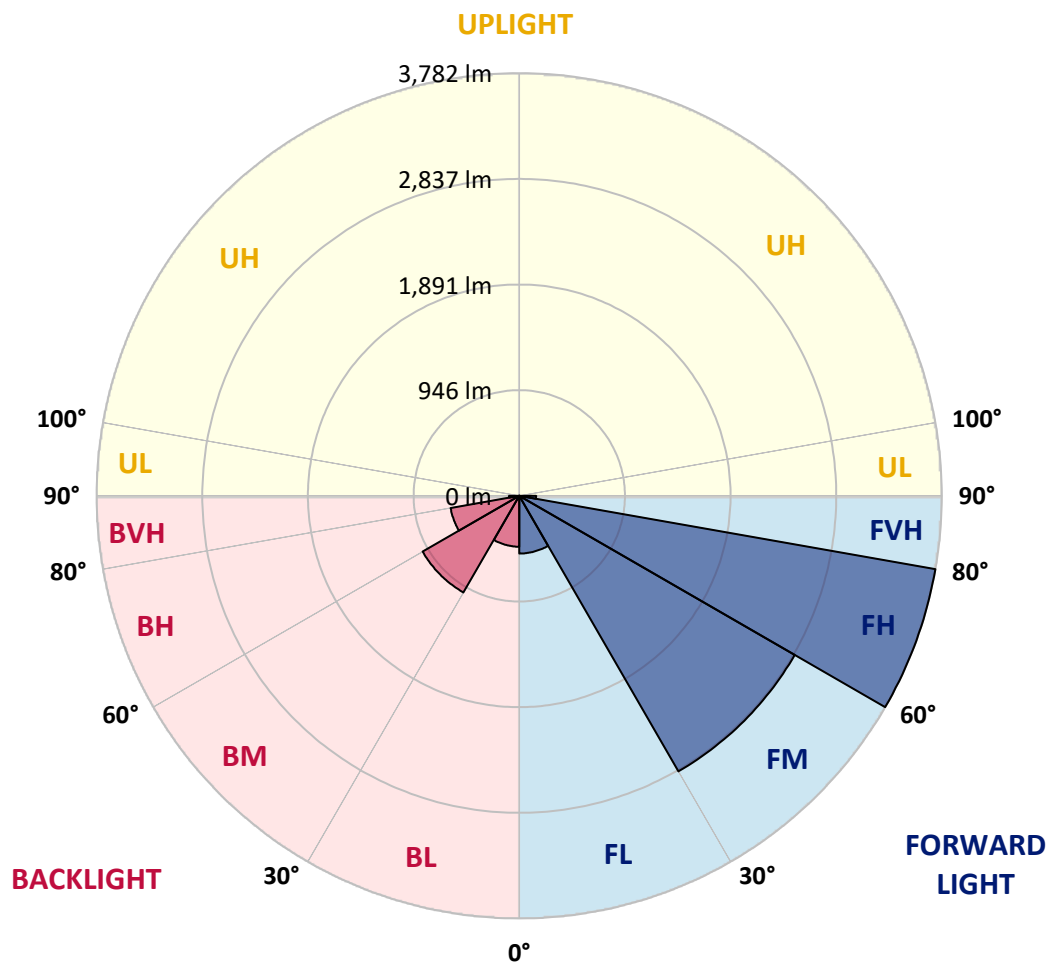
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	516.6	5.5			
FM	(30°-60°)	2847.5	30.1			
FH	(60°-80°)	3782.4	39.9			G2/5000
FVH	(80°-90°)	151.4	1.6			G2/225
BL	(0°-30°)	455.6	4.8	B1/500		
BM	(30°-60°)	998.9	10.6	B1/1000		
BH	(60°-80°)	623.9	6.6	B2/1000		G2/1000
BVH	(80°-90°)	91.6	1.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	964.6	964.6	964.6	964.6	964.6	964.6	964.6	964.6	964.6	964.6	964.6
2.5°	1012.9	1013.5	1014.8	1011.6	1002.5	999.9	998.9	989.6	983.4	974.3	966.5
5°	1093.9	1094.5	1092.6	1083.5	1063.4	1048.5	1047.2	1025.8	1006.4	985.7	970.1
7.5°	1178.5	1179.4	1173.3	1156.1	1127.9	1102.0	1100.4	1071.2	1041.7	1010.3	987.0
10°	1253.3	1249.4	1239.4	1215.4	1182.0	1150.3	1149.0	1118.5	1084.5	1046.6	1015.5
12.5°	1303.2	1300.0	1287.0	1257.8	1221.2	1192.1	1189.5	1161.3	1128.2	1086.8	1049.5
15°	1330.7	1333.0	1315.5	1282.5	1246.8	1222.2	1219.9	1199.8	1170.4	1128.6	1085.8
17.5°	1334.3	1336.3	1319.4	1286.7	1257.5	1240.7	1239.7	1226.4	1205.0	1164.8	1120.1
20°	1313.6	1314.9	1300.9	1274.0	1254.9	1249.7	1249.4	1243.6	1227.7	1192.1	1148.6
22.5°	1283.4	1284.4	1274.4	1254.9	1248.4	1256.5	1258.8	1256.5	1245.2	1211.8	1171.0
25°	1276.0	1275.3	1265.0	1245.2	1250.7	1267.9	1270.8	1271.8	1264.0	1234.8	1199.5
27.5°	1312.0	1309.7	1289.9	1258.2	1261.7	1282.5	1286.4	1295.8	1290.9	1265.3	1231.9
30°	1416.0	1412.1	1371.6	1307.4	1289.9	1300.6	1305.5	1320.4	1321.3	1300.0	1275.0
32.5°	1591.6	1586.7	1514.1	1399.4	1337.5	1319.1	1323.6	1346.0	1358.0	1341.4	1314.5
35°	1813.5	1808.0	1712.8	1555.9	1417.3	1354.4	1357.6	1375.5	1399.4	1376.1	1340.5
37.5°	2044.9	2031.6	1939.9	1740.0	1543.9	1429.9	1429.9	1432.2	1443.5	1394.9	1370.9
40°	2274.9	2261.7	2178.7	1956.4	1707.9	1548.8	1541.4	1491.1	1482.1	1440.3	1432.2
42.5°	2488.8	2484.9	2436.0	2201.1	1900.4	1665.8	1655.4	1570.2	1572.1	1546.2	1546.5
45°	2716.2	2716.2	2676.4	2448.0	2124.6	1853.7	1843.3	1717.9	1737.4	1725.4	1754.2
47.5°	2901.9	2907.7	2902.2	2705.2	2385.4	2092.5	2073.7	1922.7	1977.2	2018.3	2102.2
50°	3091.5	3100.5	3101.5	2987.5	2700.7	2376.4	2355.0	2194.6	2316.1	2434.0	2599.0
52.5°	3366.6	3387.0	3305.6	3269.0	3086.9	2713.3	2692.3	2544.2	2747.0	2912.6	3196.8
55°	3621.6	3603.7	3545.7	3568.4	3500.4	3097.0	3081.1	2951.2	3227.2	3442.4	3811.4
57.5°	3759.6	3758.3	3816.6	3913.8	3946.2	3570.0	3556.8	3430.4	3768.7	3930.3	4388.5
60°	3921.6	3923.9	4068.4	4289.0	4422.5	4159.1	4153.3	4057.4	4294.5	4385.9	4841.2
62.5°	3944.3	3985.1	4234.0	4613.7	4868.4	4847.3	4860.3	4622.1	4765.0	4749.5	5179.1
65°	3683.4	3737.2	4187.6	4711.9	5311.6	5600.0	5612.0	5190.1	5136.0	5060.2	5300.0
67.5°	3148.8	3228.5	3717.8	4498.4	5457.8	6156.4	6173.2	5630.5	5443.8	5165.5	5009.0
70°	2291.5	2379.9	2872.4	3841.9	5197.3	6334.2	6353.4	5825.2	5455.5	4865.8	4276.1
72.5°	1384.2	1453.5	1859.5	2828.4	4386.6	6010.2	6044.2	5578.3	4980.8	4121.5	3157.6
75°	607.9	653.2	899.2	1629.8	3140.4	4972.7	5015.2	4774.7	4047.0	2995.2	1866.3
77.5°	258.9	271.9	368.7	708.0	1775.3	3398.0	3456.3	3488.7	2745.7	1629.8	788.7
80°	161.4	166.5	208.7	320.5	830.8	1908.5	1971.3	2052.7	1363.5	599.1	275.4
82.5°	98.2	104.0	138.7	193.8	432.6	865.1	895.3	952.6	529.1	258.9	142.6
85°	59.0	63.2	84.9	122.5	246.3	340.2	339.9	375.9	249.2	166.5	75.2
87.5°	28.2	31.4	45.4	63.5	124.1	127.7	119.6	135.4	151.3	109.2	37.9
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°	964.6	964.6	964.6	964.6	964.6	964.6	964.6	964.6	964.6	964.6	964.6
2.5°	964.0	962.7	958.4	955.2	954.6	952.6	951.0	952.0	953.3	953.6	953.6
5°	963.6	960.1	954.6	952.3	955.2	959.1	964.0	970.4	974.3	977.2	979.2
7.5°	979.2	972.4	966.2	964.9	970.8	981.1	992.1	1005.8	1015.2	1021.6	1022.9
10°	1005.1	996.7	990.5	991.8	1002.2	1017.1	1032.6	1050.1	1064.4	1073.2	1073.8
12.5°	1034.9	1026.8	1021.0	1026.5	1043.7	1061.8	1078.0	1093.2	1106.2	1114.9	1114.9
15°	1069.3	1063.4	1056.6	1069.3	1092.6	1108.8	1115.6	1123.0	1130.2	1136.7	1135.4
17.5°	1102.3	1096.8	1093.2	1108.1	1132.4	1139.9	1135.4	1129.9	1129.9	1133.4	1134.1
20°	1130.8	1126.0	1128.2	1142.8	1155.5	1147.7	1130.8	1113.3	1106.2	1108.1	1110.1
22.5°	1155.8	1153.5	1160.3	1167.1	1158.0	1130.8	1099.7	1076.1	1067.3	1066.7	1067.3
25°	1184.9	1184.6	1193.0	1180.7	1140.5	1090.3	1048.5	1025.5	1020.7	1024.5	1031.0
27.5°	1221.2	1224.8	1229.0	1184.0	1104.9	1029.1	986.6	970.8	975.6	985.0	991.2
30°	1267.6	1277.3	1268.2	1175.9	1053.7	959.1	918.6	914.1	927.3	940.6	947.1
32.5°	1312.6	1327.8	1305.8	1154.8	987.6	884.9	853.5	852.2	868.4	881.3	890.4
35°	1348.9	1379.0	1334.0	1113.0	911.1	816.5	793.5	784.8	790.6	805.8	816.2
37.5°	1396.2	1446.4	1353.4	1049.2	828.2	760.1	733.3	713.2	708.0	714.1	719.3
40°	1482.7	1549.1	1362.5	960.1	747.2	703.8	676.6	647.1	626.7	611.7	612.1
42.5°	1624.0	1683.0	1356.7	851.8	672.3	648.7	617.9	583.9	550.8	517.1	514.5
45°	1853.4	1881.9	1339.2	737.1	606.6	591.0	562.2	528.2	484.1	445.8	442.3
47.5°	2220.5	2157.3	1312.0	637.0	548.6	542.1	515.5	476.3	429.6	398.9	396.3
50°	2721.1	2554.9	1298.7	557.3	497.4	499.3	477.6	436.1	392.1	369.4	366.8
52.5°	3319.9	3017.9	1324.3	495.7	456.2	463.0	446.8	407.9	371.0	353.2	350.6
55°	3941.0	3497.5	1351.8	451.0	417.3	430.6	425.1	393.0	359.7	343.1	340.9
57.5°	4472.8	3855.5	1296.7	414.7	382.7	403.4	408.3	383.6	353.8	338.9	336.3
60°	4807.5	3999.7	1152.2	380.7	355.1	381.7	398.5	381.0	356.1	354.8	352.9
62.5°	4966.2	3987.1	935.4	353.8	338.0	372.3	405.7	395.6	382.0	393.7	394.7
65°	4895.0	3796.5	696.6	336.0	325.6	375.9	427.1	423.2	389.5	401.1	402.8
67.5°	4425.8	3341.9	515.8	320.5	312.0	385.9	465.9	432.2	374.9	383.3	378.1
70°	3577.2	2649.5	397.9	303.0	298.1	384.6	483.4	426.7	359.0	361.0	347.0
72.5°	2466.8	1806.7	323.7	286.8	278.0	350.6	471.1	413.1	345.7	330.8	312.4
75°	1341.4	969.8	275.1	269.9	242.7	307.8	448.4	403.4	333.7	314.0	303.6
77.5°	527.8	402.4	238.8	246.9	212.2	271.9	423.2	384.9	317.2	291.3	286.1
80°	215.5	205.4	198.0	213.5	182.4	237.8	392.7	363.2	297.4	270.2	259.9
82.5°	122.2	127.7	153.9	168.5	148.1	219.0	378.1	345.7	273.8	242.0	229.7
85°	62.5	74.8	107.3	120.9	108.9	186.3	348.3	302.6	219.7	185.3	186.3
87.5°	30.1	41.8	67.7	75.8	70.6	134.8	260.2	219.4	171.1	135.4	131.2
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)