

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: P319156

Luminaire Tested: **GAN-SA2B-827-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319156
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-SA2B-827-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8535 lumens
Efficiency: N/A
Efficacy: 100.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

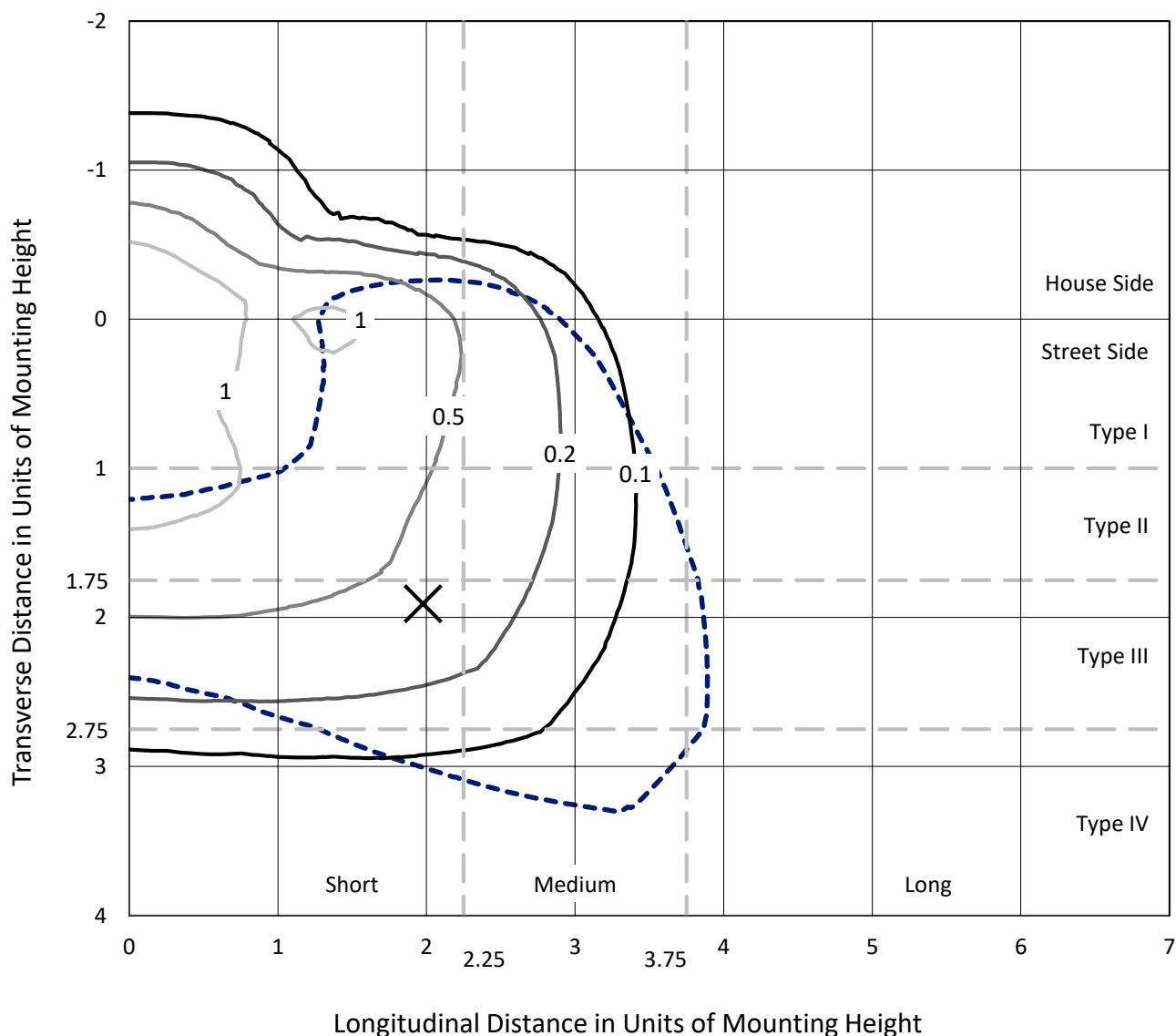
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

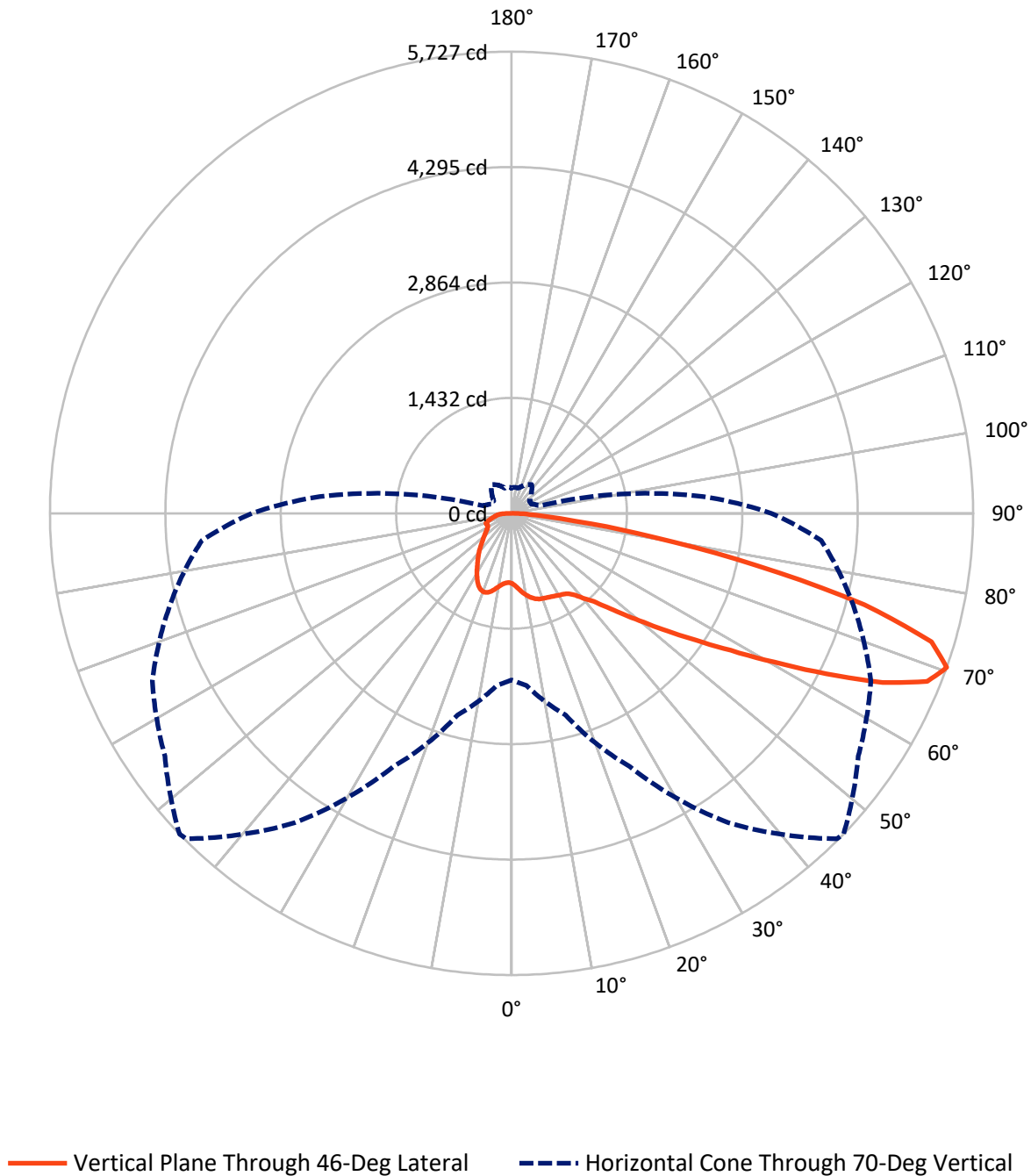
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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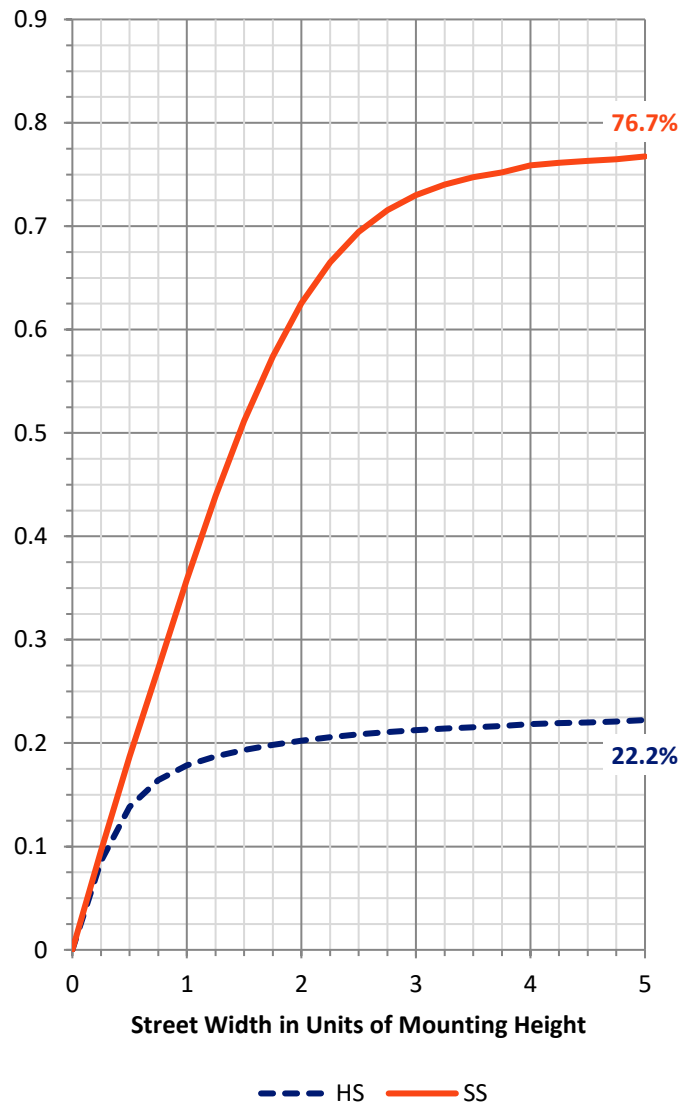
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1956.2	0.0	1956.2
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	6578.8	0.0	6578.8
	% Fixture	77.1	0.0	77.1
Total	Lumens	8535.0	0.0	8535.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.6	1.0
10°-20°	295.3	3.5
20°-30°	492.4	5.8
30°-40°	698.8	8.2
40°-50°	1027.9	12.0
50°-60°	1740.7	20.4
60°-70°	2471.0	29.0
70°-80°	1501.1	17.6
80°-90°	219.1	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°	8535.0	100.0
0°-180°	8535.0	100.0

Coefficient of Utilization



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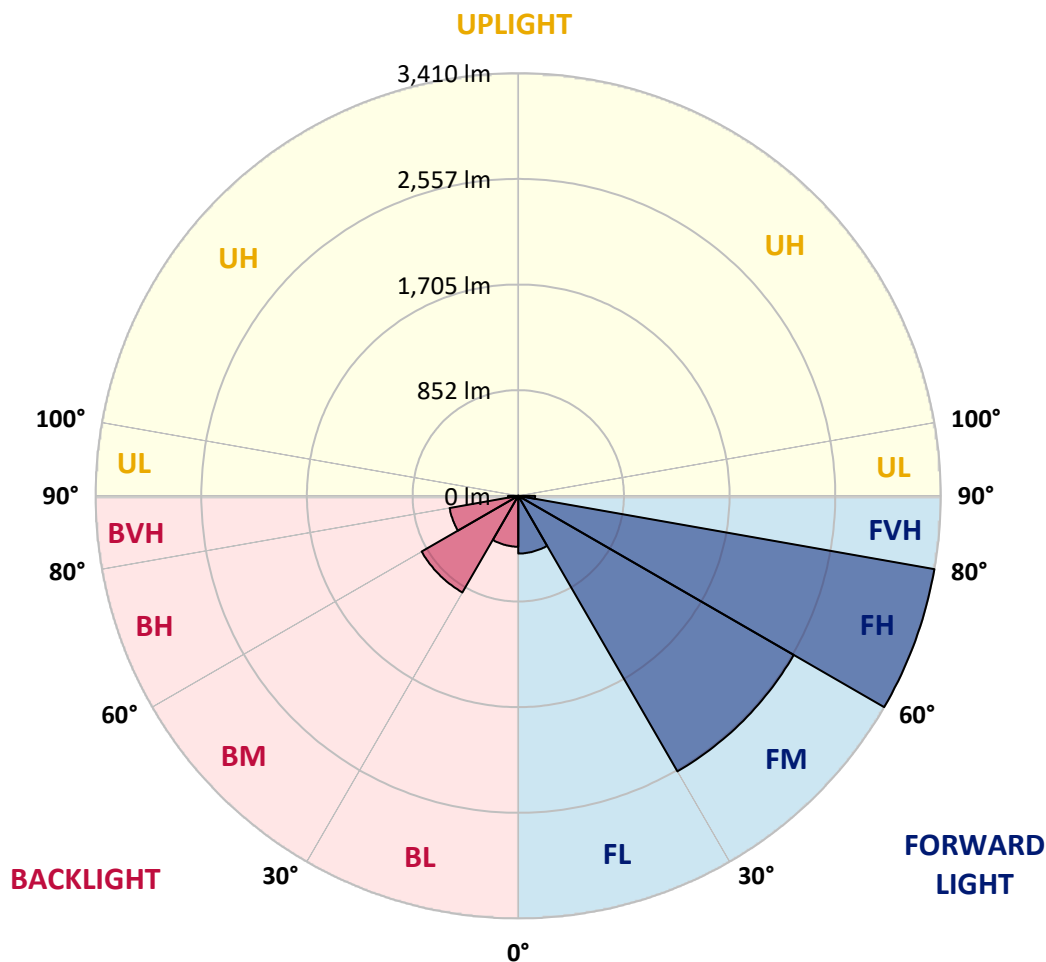
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	465.7	5.5			
FM	(30°-60°)	2566.9	30.1			
FH	(60°-80°)	3409.7	39.9			G2/5000
FVH	(80°-90°)	136.5	1.6			G2/225
BL	(0°-30°)	410.7	4.8	B1/500		
BM	(30°-60°)	900.5	10.6	B1/1000		
BH	(60°-80°)	562.4	6.6	B2/1000		G2/1000
BVH	(80°-90°)	82.6	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°	869.5	869.5	869.5	869.5	869.5	869.5	869.5	869.5	869.5	869.5	869.5
2.5°	913.1	913.7	914.8	911.9	903.7	901.4	900.5	892.0	886.5	878.3	871.3
5°	986.1	986.7	984.9	976.7	958.6	945.2	944.0	924.8	907.2	888.5	874.5
7.5°	1062.3	1063.2	1057.7	1042.2	1016.8	993.4	991.9	965.6	939.1	910.7	889.7
10°	1129.8	1126.3	1117.2	1095.6	1065.5	1036.9	1035.7	1008.3	977.6	943.4	915.4
12.5°	1174.8	1171.9	1160.2	1133.9	1100.9	1074.6	1072.3	1046.8	1017.1	979.7	946.1
15°	1199.6	1201.7	1185.9	1156.1	1124.0	1101.8	1099.7	1081.6	1055.0	1017.3	978.8
17.5°	1202.8	1204.6	1189.4	1159.9	1133.6	1118.4	1117.5	1105.6	1086.3	1050.1	1009.8
20°	1184.1	1185.3	1172.7	1148.5	1131.3	1126.6	1126.3	1121.0	1106.7	1074.6	1035.5
22.5°	1157.0	1157.8	1148.8	1131.3	1125.4	1132.7	1134.8	1132.7	1122.5	1092.4	1055.6
25°	1150.2	1149.7	1140.3	1122.5	1127.5	1142.9	1145.6	1146.4	1139.4	1113.2	1081.3
27.5°	1182.7	1180.6	1162.8	1134.2	1137.4	1156.1	1159.6	1168.1	1163.7	1140.6	1110.5
30°	1276.4	1272.9	1236.4	1178.6	1162.8	1172.4	1176.8	1190.3	1191.1	1171.9	1149.4
32.5°	1434.7	1430.4	1364.9	1261.5	1205.7	1189.1	1193.2	1213.3	1224.1	1209.2	1185.0
35°	1634.8	1629.9	1544.0	1402.6	1277.6	1220.9	1223.9	1239.9	1261.5	1240.5	1208.4
37.5°	1843.4	1831.4	1748.7	1568.5	1391.8	1289.0	1289.0	1291.0	1301.3	1257.4	1235.8
40°	2050.8	2038.8	1964.0	1763.6	1539.6	1396.2	1389.5	1344.2	1336.0	1298.3	1291.0
42.5°	2243.5	2240.0	2195.9	1984.2	1713.1	1501.6	1492.3	1415.5	1417.2	1393.8	1394.1
45°	2448.6	2448.6	2412.7	2206.7	1915.2	1671.0	1661.7	1548.7	1566.2	1555.4	1581.4
47.5°	2616.0	2621.2	2616.2	2438.7	2150.4	1886.3	1869.4	1733.3	1782.3	1819.4	1895.1
50°	2786.8	2795.0	2795.9	2693.1	2434.6	2142.2	2122.9	1978.3	2087.9	2194.2	2342.8
52.5°	3034.8	3053.2	2979.9	2946.9	2782.7	2446.0	2427.0	2293.5	2476.3	2625.6	2881.8
55°	3264.7	3248.6	3196.3	3216.8	3155.4	2791.8	2777.5	2660.3	2909.2	3103.2	3435.8
57.5°	3389.1	3387.9	3440.5	3528.1	3557.4	3218.2	3206.3	3092.3	3397.3	3543.0	3956.1
60°	3535.2	3537.2	3667.5	3866.4	3986.7	3749.3	3744.0	3657.5	3871.3	3953.7	4364.1
62.5°	3555.6	3592.4	3816.7	4159.1	4388.6	4369.7	4381.3	4166.7	4295.5	4281.4	4668.8
65°	3320.5	3369.0	3775.0	4247.6	4788.2	5048.2	5059.0	4678.7	4629.9	4561.6	4777.7
67.5°	2838.5	2910.4	3351.4	4055.1	4919.9	5549.7	5564.9	5075.6	4907.4	4656.5	4515.4
70°	2065.7	2145.4	2589.4	3463.3	4685.1	5710.1	5727.3	5251.2	4917.9	4386.3	3854.7
72.5°	1247.8	1310.3	1676.3	2549.6	3954.3	5418.0	5448.6	5028.6	4490.0	3715.4	2846.4
75°	548.0	588.9	810.5	1469.2	2830.9	4482.7	4521.0	4304.2	3648.2	2700.1	1682.4
77.5°	233.4	245.1	332.4	638.2	1600.4	3063.1	3115.7	3144.9	2475.2	1469.2	710.9
80°	145.5	150.1	188.1	288.9	748.9	1720.4	1777.1	1850.4	1229.1	540.1	248.3
82.5°	88.5	93.8	125.0	174.7	389.9	779.9	807.0	858.7	477.0	233.4	128.5
85°	53.2	57.0	76.5	110.4	222.0	306.7	306.4	338.8	224.6	150.1	67.8
87.5°	25.4	28.3	40.9	57.2	111.9	115.1	107.8	122.1	136.4	98.4	34.2
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°	869.5	869.5	869.5	869.5	869.5	869.5	869.5	869.5	869.5	869.5	869.5
2.5°	869.0	867.8	864.0	861.1	860.5	858.7	857.3	858.2	859.3	859.6	859.6
5°	868.7	865.5	860.5	858.5	861.1	864.6	869.0	874.8	878.3	880.9	882.7
7.5°	882.7	876.6	871.0	869.8	875.1	884.4	894.4	906.6	915.1	921.0	922.1
10°	906.1	898.5	892.9	894.1	903.4	916.9	930.9	946.7	959.5	967.4	968.0
12.5°	932.9	925.6	920.4	925.3	940.8	957.2	971.8	985.5	997.2	1005.1	1005.1
15°	963.9	958.6	952.5	963.9	984.9	999.5	1005.7	1012.4	1018.8	1024.6	1023.5
17.5°	993.7	988.7	985.5	998.9	1020.9	1027.6	1023.5	1018.5	1018.5	1021.7	1022.3
20°	1019.4	1015.0	1017.1	1030.2	1041.6	1034.6	1019.4	1003.6	997.2	998.9	1000.7
22.5°	1041.9	1039.8	1046.0	1052.1	1043.9	1019.4	991.4	970.0	962.1	961.6	962.1
25°	1068.2	1067.9	1075.5	1064.4	1028.2	982.9	945.2	924.5	920.1	923.6	929.4
27.5°	1100.9	1104.1	1107.9	1067.3	996.0	927.7	889.4	875.1	879.5	888.0	893.5
30°	1142.7	1151.4	1143.2	1060.0	949.9	864.6	828.1	824.0	836.0	847.9	853.8
32.5°	1183.3	1197.0	1177.1	1041.0	890.3	797.7	769.4	768.2	782.8	794.5	802.7
35°	1216.0	1243.1	1202.5	1003.3	821.4	736.1	715.3	707.4	712.7	726.4	735.8
37.5°	1258.6	1303.9	1220.1	945.8	746.6	685.2	661.0	642.9	638.2	643.8	648.4
40°	1336.6	1396.5	1228.2	865.5	673.6	634.4	609.9	583.3	564.9	551.5	551.8
42.5°	1464.0	1517.1	1223.0	767.9	606.1	584.8	557.0	526.3	496.6	466.2	463.8
45°	1670.8	1696.5	1207.2	664.5	546.8	532.8	506.8	476.1	436.4	401.9	398.7
47.5°	2001.7	1944.7	1182.7	574.2	494.5	488.7	464.7	429.4	387.3	359.6	357.2
50°	2453.0	2303.1	1170.7	502.4	448.4	450.1	430.5	393.2	353.4	333.0	330.6
52.5°	2992.7	2720.5	1193.8	446.9	411.3	417.4	402.8	367.7	334.4	318.4	316.0
55°	3552.7	3152.8	1218.6	406.6	376.2	388.2	383.2	354.3	324.2	309.3	307.3
57.5°	4032.0	3475.6	1168.9	373.9	345.0	363.7	368.0	345.8	319.0	305.5	303.2
60°	4333.7	3605.5	1038.7	343.2	320.1	344.1	359.3	343.5	321.0	319.8	318.1
62.5°	4476.9	3594.2	843.3	319.0	304.6	335.6	365.7	356.6	344.4	354.9	355.8
65°	4412.6	3422.4	628.0	302.9	293.5	338.8	385.0	381.5	351.1	361.6	363.1
67.5°	3989.6	3012.6	465.0	288.9	281.3	347.9	420.0	389.6	337.9	345.5	340.9
70°	3224.7	2388.4	358.7	273.1	268.7	346.7	435.8	384.7	323.6	325.4	312.8
72.5°	2223.7	1628.7	291.8	258.5	250.6	316.0	424.7	372.4	311.7	298.2	281.6
75°	1209.2	874.2	248.0	243.3	218.8	277.5	404.3	363.7	300.9	283.0	273.7
77.5°	475.8	362.8	215.3	222.6	191.3	245.1	381.5	347.0	286.0	262.6	257.9
80°	194.2	185.2	178.5	192.5	164.4	214.4	354.0	327.4	268.1	243.6	234.3
82.5°	110.1	115.1	138.7	151.9	133.5	197.5	340.9	311.7	246.8	218.2	207.1
85°	56.4	67.5	96.7	108.9	98.1	168.0	314.0	272.8	198.0	167.1	168.0
87.5°	27.2	37.7	61.0	68.3	63.7	121.5	234.5	197.7	154.2	122.1	118.3
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)