

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: P320165

Luminaire Tested: **GAN-SA1C-830-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320165
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1C-830-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5592 lumens
Efficiency: N/A
Efficacy: 94.8 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

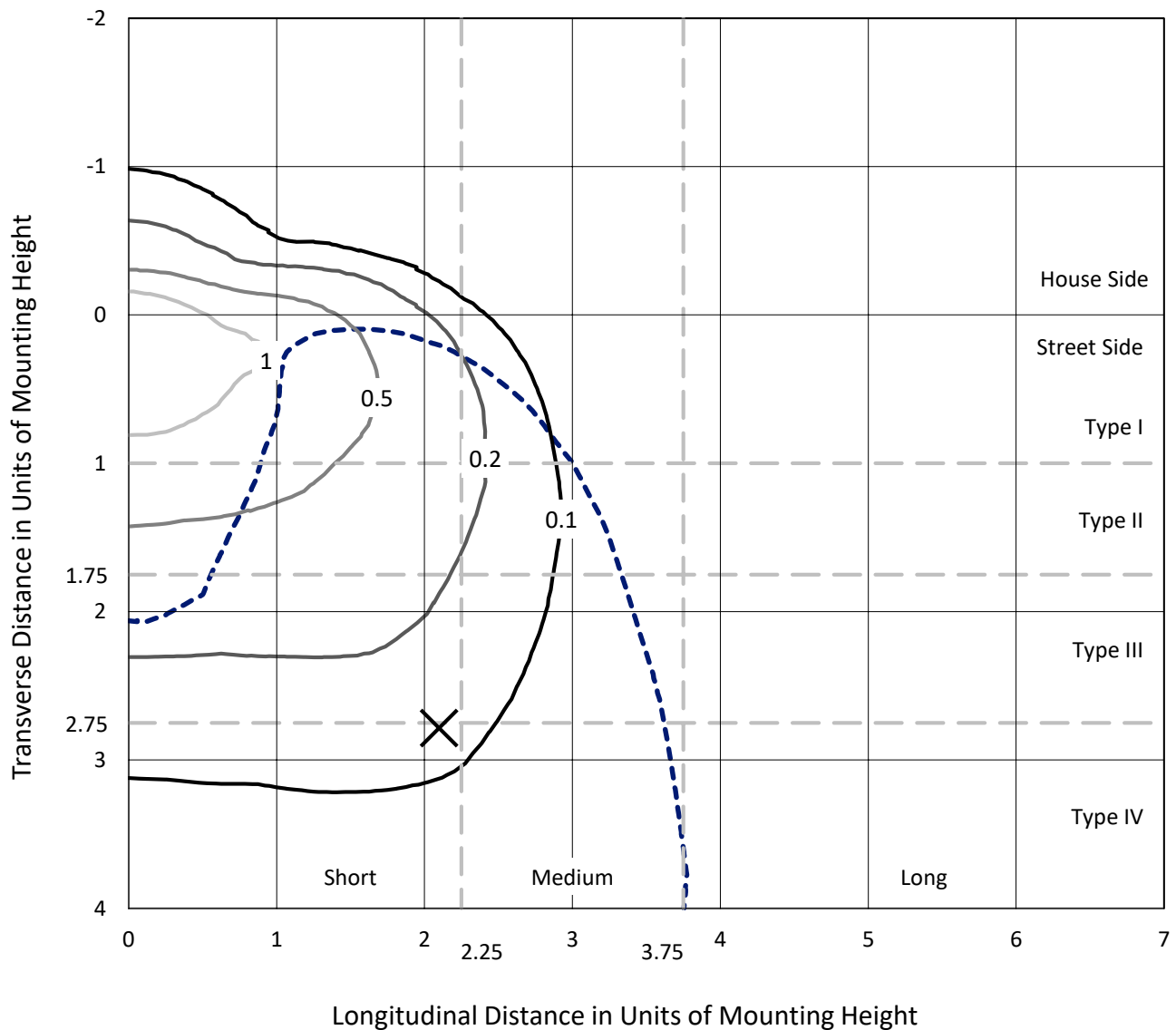
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

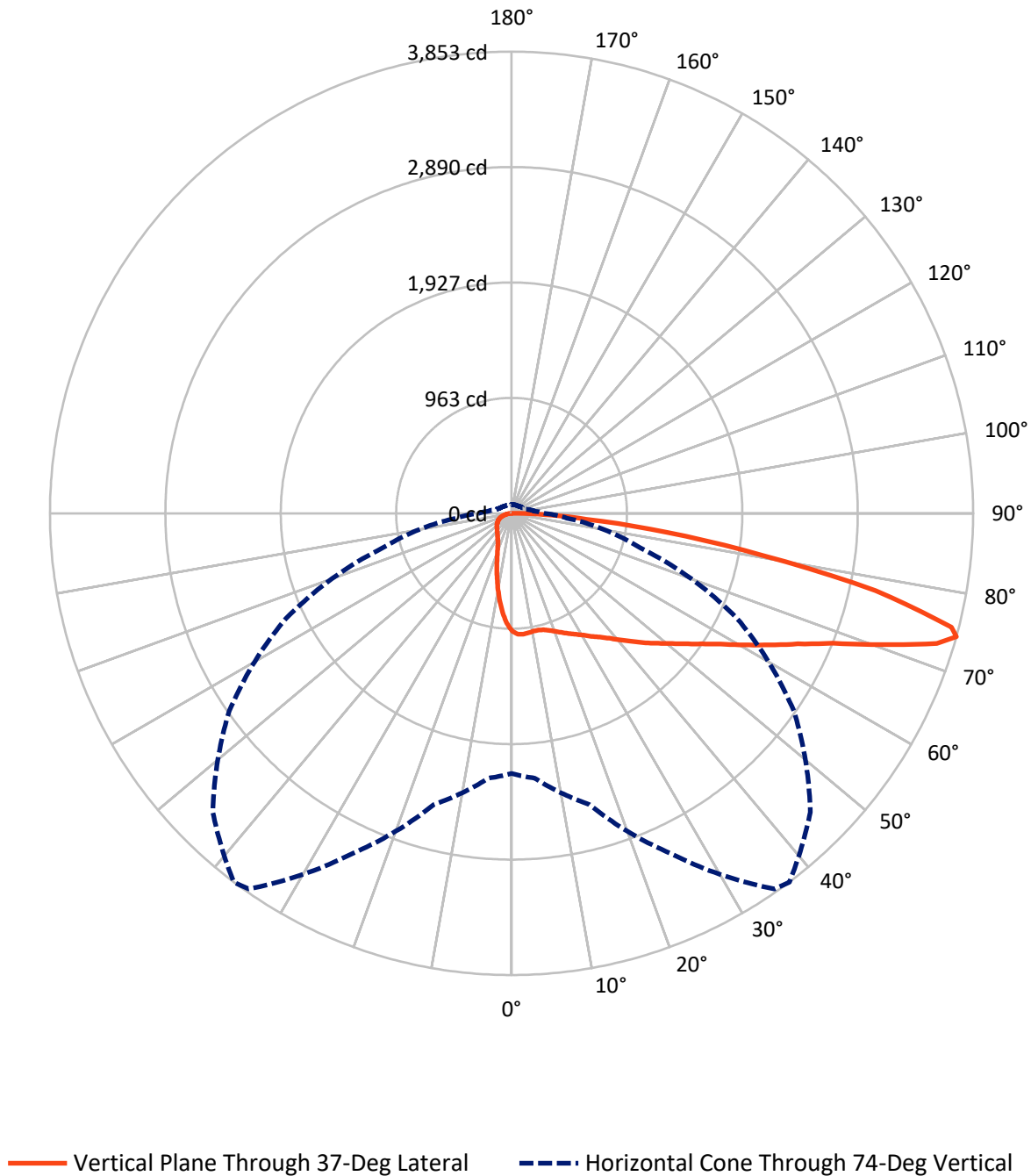
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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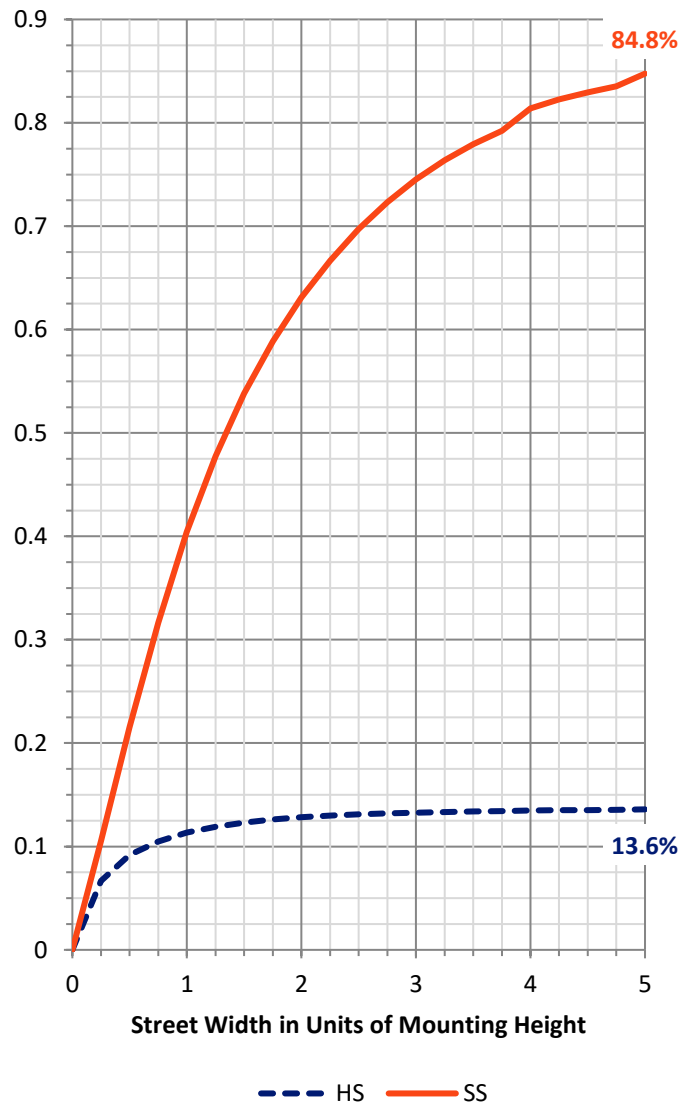
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	769.4	0.0	769.4
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	4822.6	0.0	4822.6
	% Fixture	86.2	0.0	86.2
Total	Lumens	5592.0	0.0	5592.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.8	1.6
10°-20°	222.4	4.0
20°-30°	342.7	6.1
30°-40°	498.3	8.9
40°-50°	733.4	13.1
50°-60°	1030.0	18.4
60°-70°	1303.6	23.3
70°-80°	1147.9	20.5
80°-90°	227.0	4.1
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°	5592.0	100.0
0°-180°	5592.0	100.0

Coefficient of Utilization



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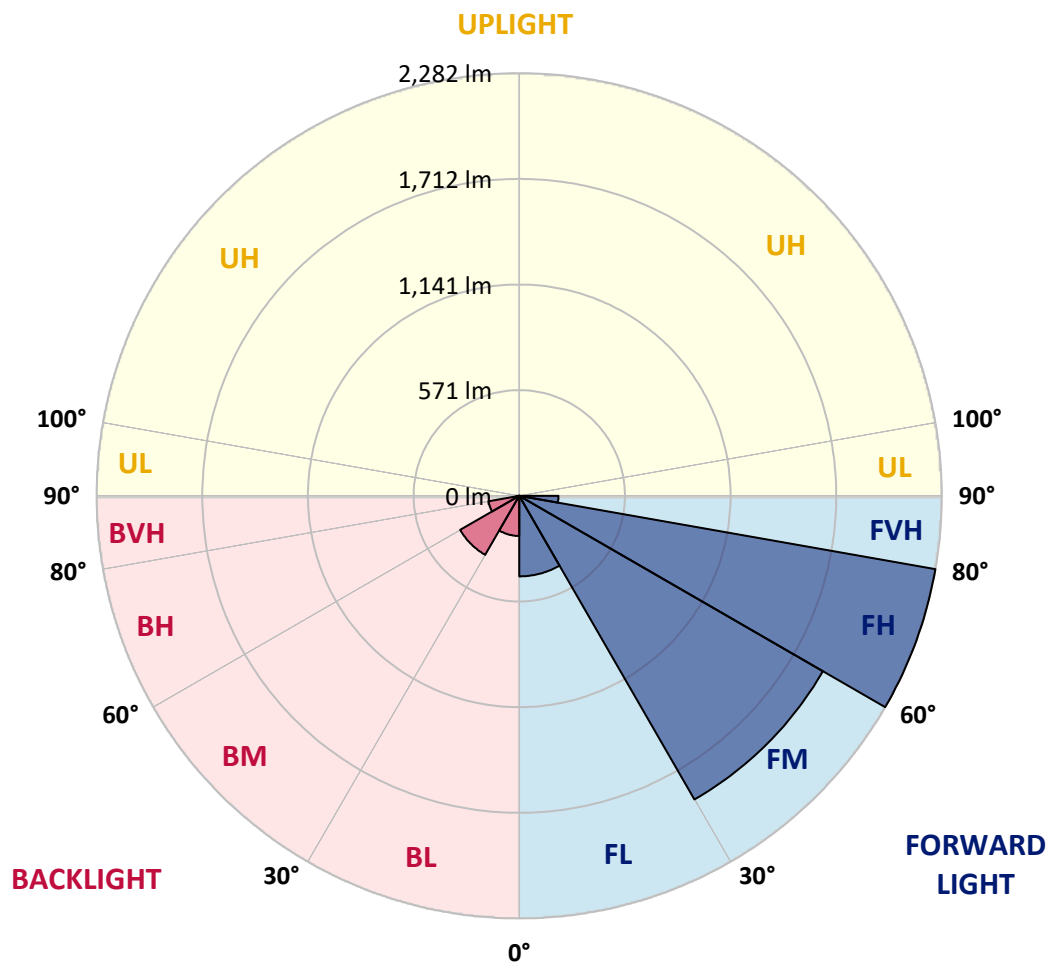
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	435.1	7.8			
FM	(30°-60°)	1893.5	33.9			
FH	(60°-80°)	2282.4	40.8			G2/5000
FVH	(80°-90°)	211.6	3.8			G2/225
BL	(0°-30°)	216.7	3.9	B1/500		
BM	(30°-60°)	368.2	6.6	B1/1000		
BH	(60°-80°)	169.1	3.0	B1/500		G1/500
BVH	(80°-90°)	15.4	0.3			G1/100
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°	37°	45°	55°	65°	75°	85°
0°	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3
2.5°	1019.0	1019.2	1019.0	1017.4	1013.7	1010.5	1007.9	1004.2	995.9	989.6	980.2
5°	1028.6	1027.4	1026.7	1023.7	1017.8	1014.2	1009.3	1002.2	988.6	976.0	960.7
7.5°	1024.1	1022.7	1020.9	1017.4	1010.7	1007.7	1000.9	991.6	975.2	958.7	936.6
10°	1010.1	1009.7	1008.9	1008.1	1002.4	1000.1	993.8	983.9	967.8	947.7	921.9
12.5°	994.5	995.5	998.7	1002.8	1000.3	999.1	995.1	988.4	971.9	950.2	919.1
15°	984.7	987.5	995.9	1006.8	1008.9	1008.5	1007.5	1003.2	985.7	961.7	925.4
17.5°	981.3	985.9	1002.0	1020.0	1026.3	1027.6	1028.0	1020.5	1001.0	975.6	931.9
20°	987.5	993.2	1016.8	1041.4	1051.5	1052.3	1050.5	1037.5	1015.6	987.7	935.5
22.5°	1006.0	1011.1	1040.6	1068.4	1079.8	1081.0	1075.7	1056.0	1031.0	1001.8	940.4
25°	1041.6	1047.9	1077.5	1105.2	1111.2	1111.4	1103.7	1079.2	1051.1	1021.7	951.0
27.5°	1088.1	1094.4	1121.0	1148.2	1145.0	1143.3	1132.8	1108.4	1077.3	1049.1	969.9
30°	1139.9	1146.8	1172.0	1191.3	1183.8	1180.3	1171.8	1140.3	1113.7	1086.5	998.9
32.5°	1193.5	1199.8	1221.9	1235.1	1225.6	1224.0	1211.2	1182.5	1161.2	1143.7	1045.8
35°	1248.5	1253.0	1274.7	1282.1	1269.5	1269.1	1265.6	1239.2	1225.8	1234.1	1113.9
37.5°	1304.6	1305.8	1324.3	1324.7	1320.9	1322.5	1326.3	1309.7	1313.5	1339.3	1202.6
40°	1354.6	1357.8	1371.2	1375.3	1381.8	1387.3	1406.0	1395.2	1424.2	1469.9	1312.9
42.5°	1391.7	1397.8	1419.2	1429.9	1450.9	1459.6	1486.0	1496.1	1554.4	1622.9	1444.1
45°	1423.0	1432.4	1466.9	1488.8	1524.4	1539.6	1577.4	1611.1	1701.5	1789.0	1582.1
47.5°	1456.9	1468.9	1512.0	1553.8	1602.2	1619.4	1688.1	1738.5	1858.5	1956.0	1712.3
50°	1506.7	1516.0	1558.1	1623.7	1684.2	1706.2	1801.4	1873.7	2018.0	2115.2	1825.2
52.5°	1576.2	1572.7	1608.3	1700.3	1781.5	1808.7	1922.3	2017.5	2179.8	2259.2	1920.5
55°	1646.2	1640.2	1665.3	1780.5	1894.9	1923.5	2055.5	2161.8	2333.6	2388.8	1993.6
57.5°	1724.0	1712.7	1733.8	1870.9	2024.2	2058.2	2204.6	2315.3	2484.9	2493.6	2040.1
60°	1804.1	1789.0	1812.6	1983.0	2188.2	2228.4	2379.1	2465.0	2627.5	2577.5	2055.1
62.5°	1874.3	1863.6	1900.1	2108.1	2373.2	2417.3	2550.5	2624.2	2768.1	2612.3	2001.1
65°	1935.5	1937.3	2000.3	2248.7	2579.4	2626.5	2747.1	2820.3	2878.8	2591.7	1874.8
67.5°	2008.6	2018.6	2126.2	2433.9	2839.1	2890.7	3033.1	3034.3	2940.7	2470.3	1626.3
70°	2115.2	2135.8	2299.3	2690.7	3208.2	3279.1	3389.0	3159.9	2853.8	2141.4	1279.6
72.5°	2209.7	2248.3	2483.5	2984.6	3658.1	3711.9	3597.2	3087.4	2490.8	1604.8	797.2
74°	2171.3	2219.2	2517.0	3129.4	3827.5	3853.3	3526.9	2875.9	2076.7	1111.4	463.3
75°	2088.6	2140.6	2468.1	3128.0	3806.0	3791.6	3357.1	2634.2	1710.4	758.0	308.3
77.5°	1685.5	1740.5	2079.7	2680.9	3120.7	3107.1	2578.8	1767.1	749.1	248.6	156.6
80°	980.0	1021.9	1291.0	1702.5	2104.3	2128.9	1696.0	874.4	294.7	139.7	106.2
82.5°	435.3	464.3	623.6	869.1	1269.9	1301.6	888.2	458.2	182.0	84.9	63.8
85°	285.6	307.1	378.6	413.9	604.7	626.4	434.7	356.7	120.2	46.7	46.9
87.5°	205.4	226.1	281.3	245.6	277.5	262.8	236.6	330.1	48.3	26.6	15.8
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°	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3
2.5°	976.0	972.9	965.8	952.4	944.9	938.6	928.2	922.1	919.3	919.1	920.3
5°	951.8	944.5	926.2	903.7	885.8	869.5	849.2	837.0	828.3	823.2	824.6
7.5°	923.6	912.2	883.5	847.6	818.8	787.1	755.8	737.1	722.5	711.7	713.7
10°	904.3	888.6	846.6	795.0	747.1	701.0	657.9	632.1	611.6	595.9	597.0
12.5°	897.8	876.6	818.4	749.5	682.3	619.3	563.0	523.4	502.3	484.4	485.8
15°	898.8	870.3	794.8	708.5	624.0	544.6	476.3	430.0	401.4	389.0	389.2
17.5°	899.6	863.0	770.0	664.6	566.3	474.9	400.7	353.8	326.8	315.4	315.6
20°	897.0	851.1	739.3	614.2	506.0	410.9	339.0	299.2	278.7	269.9	269.9
22.5°	893.7	837.2	704.6	563.6	446.6	355.4	294.9	264.5	252.7	246.8	246.6
25°	895.3	826.7	669.1	511.6	391.8	311.0	265.5	245.4	237.6	233.8	233.6
27.5°	903.7	821.8	636.4	459.7	343.9	277.7	245.8	231.6	226.5	224.2	224.2
30°	919.1	821.8	602.4	415.6	304.1	253.1	230.7	221.0	217.5	215.9	215.9
32.5°	945.9	826.3	569.5	371.9	272.4	233.8	218.1	211.6	208.8	208.0	208.0
35°	992.0	841.7	537.4	330.5	246.8	218.1	206.0	202.3	200.3	200.1	200.7
37.5°	1056.8	873.0	507.2	300.0	228.7	205.3	196.0	193.0	191.9	192.8	193.6
40°	1138.3	915.6	479.8	272.4	214.9	195.0	186.7	184.8	184.2	185.6	186.7
42.5°	1236.8	973.1	457.4	252.5	204.3	186.3	178.9	176.5	175.9	177.5	179.1
45°	1343.4	1034.9	441.6	237.8	196.0	179.8	172.0	169.4	168.2	169.0	170.8
47.5°	1440.3	1093.4	435.3	227.3	188.1	174.3	165.9	162.7	160.7	160.3	161.7
50°	1522.1	1137.0	438.3	221.0	181.8	168.2	159.9	156.4	153.4	151.7	152.7
52.5°	1581.5	1164.3	441.0	218.3	176.9	161.5	153.4	150.1	146.2	143.2	143.2
55°	1624.7	1170.6	434.9	216.1	173.1	154.2	146.2	143.0	139.1	135.7	135.3
57.5°	1641.6	1152.9	412.3	212.9	170.6	147.3	138.5	136.1	132.8	128.8	128.6
60°	1618.8	1098.2	368.5	206.2	167.2	141.6	130.8	129.2	127.6	123.9	123.7
62.5°	1527.0	978.0	312.0	192.6	160.5	135.5	123.7	124.5	124.7	122.1	121.7
65°	1360.5	812.9	256.9	174.9	150.5	128.2	116.4	120.2	122.3	121.9	121.3
67.5°	1118.6	632.7	217.7	156.2	137.3	118.2	108.5	112.9	114.6	116.0	115.6
70°	830.3	446.2	180.0	136.5	121.3	106.4	98.3	100.5	99.3	100.9	101.4
72.5°	462.9	267.7	146.7	116.8	104.8	92.6	86.9	86.5	83.9	83.9	83.9
74°	277.7	196.4	129.0	104.6	94.7	83.5	78.6	76.8	74.5	74.7	74.5
75°	223.4	168.8	118.4	96.5	87.7	78.2	73.3	70.9	69.1	69.1	68.9
77.5°	141.0	128.2	95.3	76.8	70.1	64.4	61.1	57.9	57.9	57.7	57.5
80°	106.6	102.0	74.3	58.1	53.8	49.4	47.3	45.9	45.9	46.5	46.3
82.5°	73.1	76.8	52.2	40.6	38.4	35.3	34.9	35.1	34.5	33.7	33.5
85°	53.4	57.7	35.3	25.6	23.4	21.5	23.0	23.8	22.8	21.1	20.3
87.5°	20.5	37.8	18.9	10.6	9.8	8.5	9.8	10.2	11.0	8.7	8.9
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)