

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: P317565

Luminaire Tested: **GAN-SA1C-827-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317565
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1C-827-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5671 lumens
Efficiency: N/A
Efficacy: 96.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

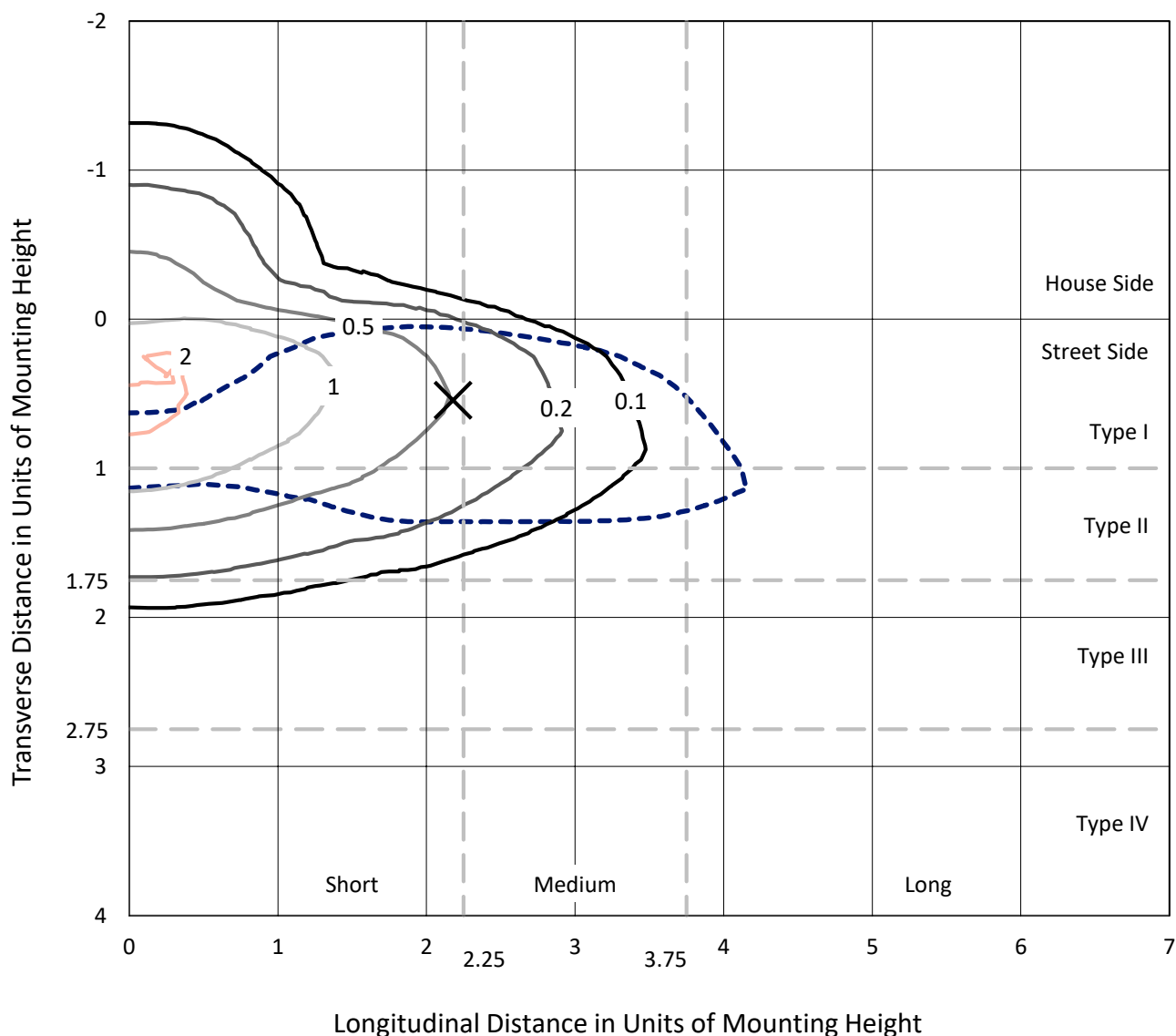
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

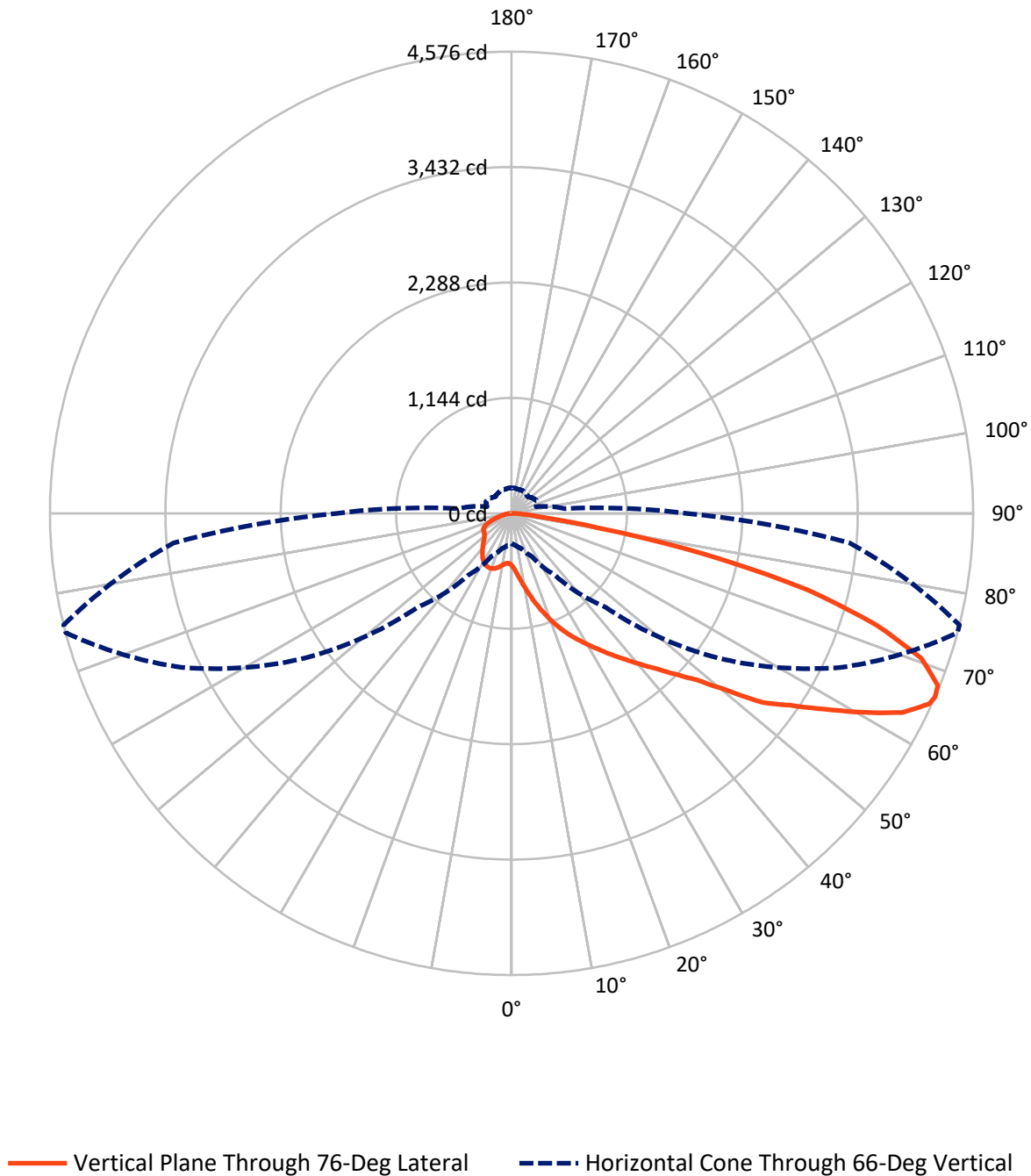
× Max cd
 --- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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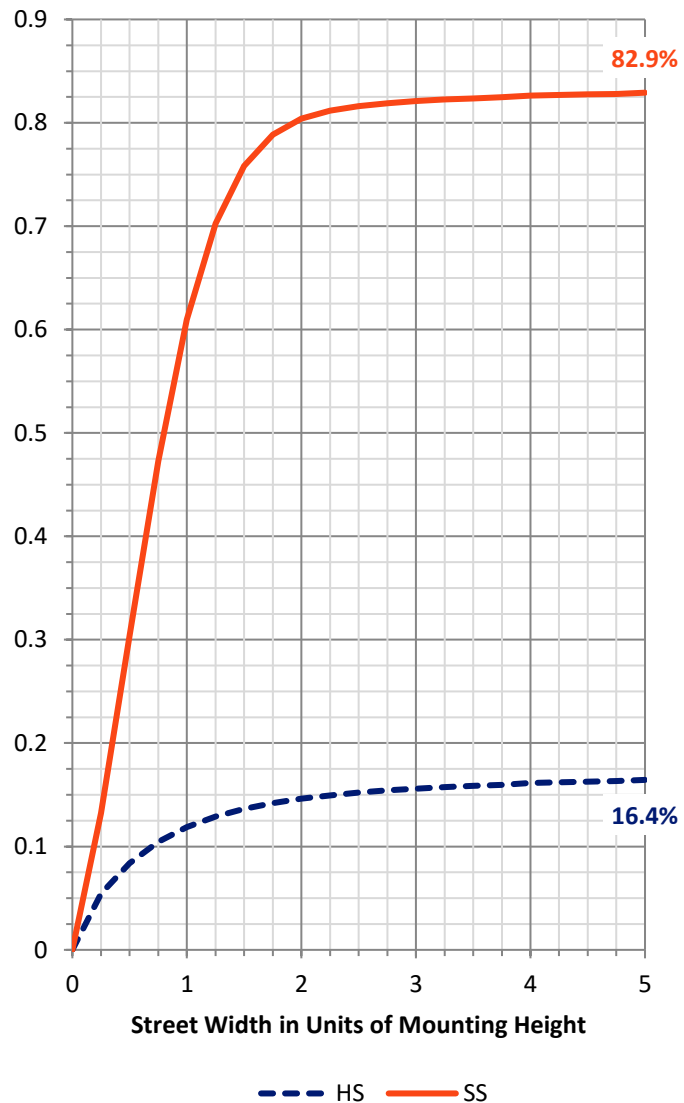
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	954.2	0.0	954.2
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	4716.8	0.0	4716.8
	% Fixture	83.2	0.0	83.2
Total	Lumens	5671.0	0.0	5671.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.6	1.1
10°-20°	247.3	4.4
20°-30°	480.6	8.5
30°-40°	784.4	13.8
40°-50°	1071.7	18.9
50°-60°	1248.3	22.0
60°-70°	1119.1	19.7
70°-80°	565.6	10.0
80°-90°	91.3	1.6
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°	5671.0	100.0
0°-180°	5671.0	100.0

Coefficient of Utilization



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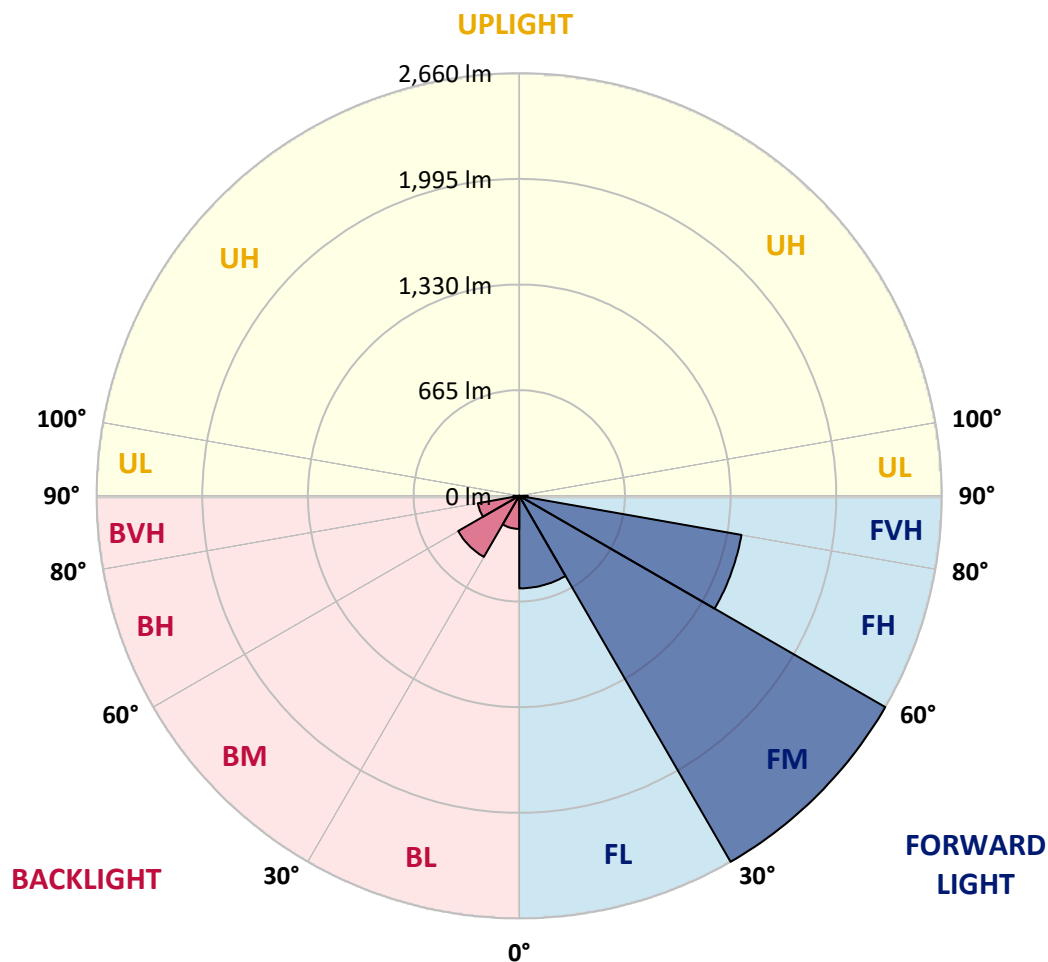
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	582.4	10.3			
FM	(30°-60°)	2660.1	46.9			
FH	(60°-80°)	1420.3	25.0			G1/1800
FVH	(80°-90°)	53.9	1.0			G1/100
BL	(0°-30°)	208.1	3.7	B1/500		
BM	(30°-60°)	444.3	7.8	B1/1000		
BH	(60°-80°)	264.4	4.7	B1/500		G1/500
BVH	(80°-90°)	37.4	0.7			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	517.9	517.9	517.9	517.9	517.9	517.9	517.9	517.9	517.9	517.9	517.9
2.5°	687.5	677.1	676.1	660.9	657.5	628.4	607.0	584.7	559.3	554.3	534.3
5°	883.1	882.1	868.9	844.0	824.6	774.9	725.8	673.8	616.8	607.6	562.6
7.5°	1059.1	1057.5	1047.3	1020.6	992.5	931.4	861.4	781.6	689.2	675.6	600.9
10°	1192.7	1192.1	1188.6	1169.0	1145.1	1086.6	1009.2	900.4	773.4	754.7	648.8
12.5°	1295.9	1297.0	1299.3	1292.4	1281.1	1231.2	1151.9	1026.3	863.1	844.6	702.1
15°	1365.8	1369.2	1381.2	1391.0	1397.0	1366.3	1289.5	1155.1	963.6	941.4	761.2
17.5°	1401.0	1404.8	1425.4	1455.1	1482.4	1479.4	1418.3	1278.0	1060.0	1038.7	824.8
20°	1431.4	1434.3	1457.4	1493.0	1541.3	1562.7	1528.4	1396.2	1165.7	1140.3	892.2
22.5°	1519.6	1523.3	1530.2	1550.4	1593.1	1632.4	1615.9	1508.0	1262.6	1238.9	956.1
25°	1689.8	1694.2	1679.2	1662.1	1670.1	1697.5	1700.6	1610.1	1360.8	1334.0	1024.8
27.5°	1894.8	1901.2	1875.6	1831.5	1793.0	1782.4	1778.7	1693.6	1454.5	1423.5	1092.8
30°	2095.6	2106.6	2073.3	2016.1	1945.5	1895.8	1859.0	1775.5	1546.9	1517.3	1156.9
32.5°	2291.8	2287.4	2239.1	2183.2	2100.4	2038.3	1949.3	1863.2	1650.9	1616.8	1220.6
35°	2426.2	2427.7	2382.9	2316.6	2237.7	2190.0	2070.2	1958.0	1757.0	1725.6	1293.0
37.5°	2540.5	2533.4	2482.6	2420.8	2352.8	2332.4	2211.7	2062.3	1871.9	1837.6	1370.0
40°	2578.7	2570.4	2537.1	2492.6	2438.1	2436.4	2367.9	2180.5	2001.9	1968.0	1456.8
42.5°	2555.6	2545.0	2531.3	2519.2	2502.4	2510.1	2514.6	2319.1	2144.7	2106.8	1557.3
45°	2470.3	2454.3	2463.9	2490.3	2526.7	2570.2	2647.0	2472.6	2304.7	2272.9	1675.3
47.5°	2339.2	2324.7	2354.8	2411.2	2510.1	2620.3	2772.3	2642.0	2495.7	2464.1	1843.4
50°	2154.7	2159.0	2201.9	2304.5	2454.1	2643.4	2926.8	2866.3	2773.3	2743.9	2072.7
52.5°	1852.1	1852.9	1973.8	2142.2	2354.8	2631.4	3012.4	3153.0	3152.4	3116.8	2291.0
55°	1571.0	1588.1	1683.8	1907.7	2193.8	2583.7	3072.3	3292.4	3401.3	3359.5	2494.5
57.5°	1296.5	1306.5	1397.1	1622.0	1964.1	2456.4	3133.7	3459.7	3688.2	3661.8	2747.5
60°	984.2	999.6	1093.3	1301.1	1670.3	2230.6	3139.5	3634.3	4031.1	4004.5	3029.9
62.5°	638.8	665.4	753.2	947.8	1314.9	1905.8	3005.5	3748.4	4356.1	4346.6	3280.6
65°	367.1	387.2	448.2	598.4	907.2	1498.0	2686.9	3704.6	4556.1	4550.7	3374.4
66°	300.0	312.5	359.3	467.6	748.5	1315.5	2501.7	3611.9	4575.9	4576.1	3363.6
67.5°	239.9	245.5	266.5	334.8	552.4	1042.7	2170.7	3407.7	4551.3	4558.0	3294.1
70°	198.5	201.4	207.9	224.5	301.5	628.8	1540.8	2876.9	4303.9	4309.1	3022.8
72.5°	178.1	179.8	182.3	184.6	212.7	351.4	941.1	2301.4	3773.5	3780.2	2609.5
75°	161.3	162.3	161.9	162.1	178.5	223.9	486.3	1718.3	3051.1	3037.6	1999.0
77.5°	141.7	142.7	140.7	141.1	157.9	172.1	242.0	1202.9	2059.0	1963.9	1126.3
80°	119.8	120.5	119.8	121.1	137.5	130.0	140.7	676.7	910.4	861.2	400.5
82.5°	90.5	93.8	96.1	101.5	113.2	92.4	94.1	263.6	277.2	264.0	122.8
85°	39.7	48.3	72.4	77.6	85.1	55.4	61.8	107.4	112.8	109.4	44.7
87.5°	10.4	11.4	35.8	45.1	47.2	25.0	32.2	48.9	51.6	48.9	14.8
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°	517.9	517.9	517.9	517.9	517.9	517.9	517.9	517.9	517.9	517.9	517.9
2.5°	523.7	514.2	497.3	482.3	470.9	463.2	455.5	451.7	449.4	447.0	447.4
5°	540.4	521.4	492.3	471.7	460.1	452.8	449.0	447.4	446.5	444.2	444.2
7.5°	565.6	538.7	498.6	477.5	468.4	462.8	460.5	459.7	458.6	455.9	456.3
10°	597.4	559.7	511.9	491.3	483.0	476.9	473.6	472.5	470.3	467.3	467.6
12.5°	634.8	585.7	529.4	507.9	497.9	489.6	484.2	480.9	477.3	473.2	473.4
15°	675.6	614.0	548.3	522.7	509.0	497.5	488.8	483.2	477.5	472.5	472.3
17.5°	717.0	641.3	562.7	530.8	512.3	497.1	485.4	476.7	469.6	463.4	462.8
20°	761.6	665.9	570.8	530.0	506.1	488.0	472.5	461.7	453.8	447.6	446.7
22.5°	807.1	689.0	572.2	522.1	492.5	470.3	454.0	442.0	433.9	427.6	425.3
25°	848.6	706.9	566.6	506.9	473.4	449.5	433.6	421.4	414.9	407.4	405.1
27.5°	886.6	719.5	555.4	487.5	452.0	428.6	413.5	403.1	396.0	390.2	388.3
30°	920.7	726.2	537.1	464.4	430.1	408.7	396.0	388.9	382.7	375.4	374.1
32.5°	953.0	726.2	513.7	439.1	408.3	391.2	383.7	379.3	372.3	365.2	363.3
35°	985.3	721.8	485.9	412.8	388.3	378.7	378.3	373.1	362.5	352.9	350.4
37.5°	1019.4	712.7	454.7	388.1	372.0	373.1	376.4	364.8	349.8	336.1	332.5
40°	1057.9	700.2	422.4	366.8	358.3	370.6	371.2	352.9	323.6	311.1	307.8
42.5°	1103.2	687.7	392.4	347.9	347.5	363.1	361.4	327.1	309.6	303.2	301.5
45°	1162.7	680.6	363.9	330.0	339.0	351.0	344.6	312.9	305.5	301.9	300.3
47.5°	1256.4	684.2	337.7	315.7	330.6	338.8	313.4	307.1	301.9	297.4	295.9
50°	1373.9	682.1	316.5	305.9	320.9	326.1	299.4	299.6	296.9	291.9	289.6
52.5°	1462.2	665.6	302.8	300.3	312.5	303.6	290.5	292.3	290.9	283.6	281.1
55°	1547.5	651.3	295.9	298.2	306.3	275.5	280.1	284.4	283.0	275.9	274.7
57.5°	1653.6	648.6	291.7	298.8	301.1	261.4	270.1	275.7	274.7	271.7	271.1
60°	1783.5	649.4	287.8	299.8	295.3	251.1	260.7	267.8	268.4	267.8	267.4
62.5°	1855.0	628.4	278.2	297.1	285.1	242.0	250.9	261.3	261.4	262.6	262.4
65°	1794.3	565.6	260.3	287.6	268.0	234.5	242.4	253.7	250.9	256.1	256.1
66°	1735.4	529.4	251.4	281.5	260.7	231.6	239.7	249.9	246.2	253.4	253.4
67.5°	1615.1	468.4	235.5	268.4	250.3	227.6	236.6	243.5	238.5	249.1	248.4
70°	1395.2	362.3	203.3	238.7	233.1	221.6	232.4	230.8	223.5	239.7	236.6
72.5°	1176.3	275.3	163.3	199.8	207.2	214.1	226.4	214.7	205.4	216.8	210.0
75°	912.8	207.0	129.0	155.4	175.0	202.3	219.3	196.0	182.7	181.6	177.9
77.5°	493.4	142.1	102.2	118.6	139.0	187.7	214.5	176.0	155.9	151.3	148.4
80°	195.4	92.4	74.3	89.9	97.2	166.5	202.9	152.7	128.6	124.0	119.6
82.5°	80.7	54.7	47.9	60.3	63.3	142.5	182.1	125.1	99.3	137.5	145.9
85°	34.7	30.0	28.5	31.2	35.8	99.9	145.0	95.5	107.2	95.7	76.0
87.5°	10.4	12.7	12.1	11.9	13.1	23.9	77.2	53.1	78.7	29.8	22.3
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)