

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: P317995

Luminaire Tested: **GAN-SA1B-727-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317995
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1B-727-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4910 lumens
Efficiency: N/A
Efficacy: 111.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

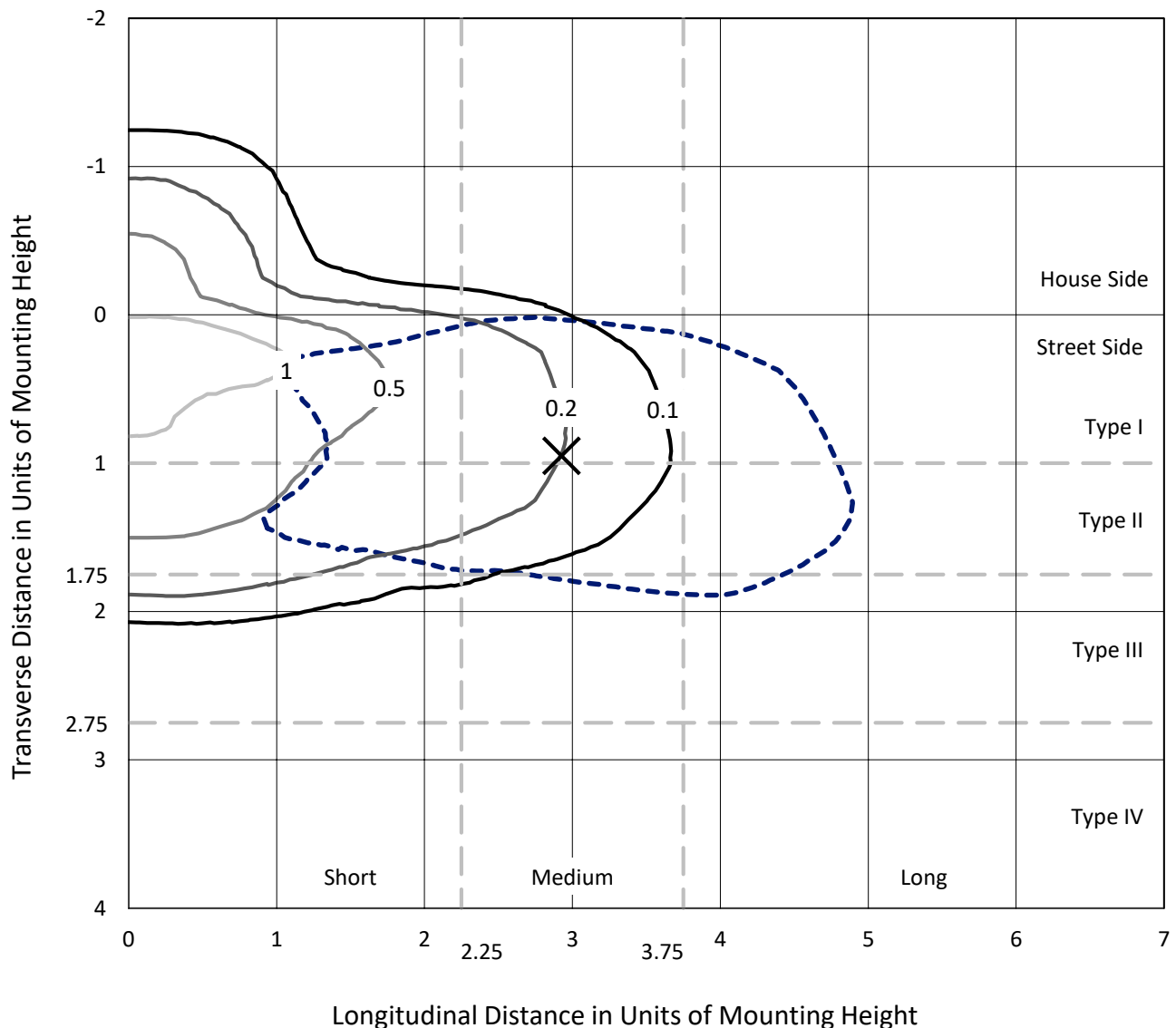
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

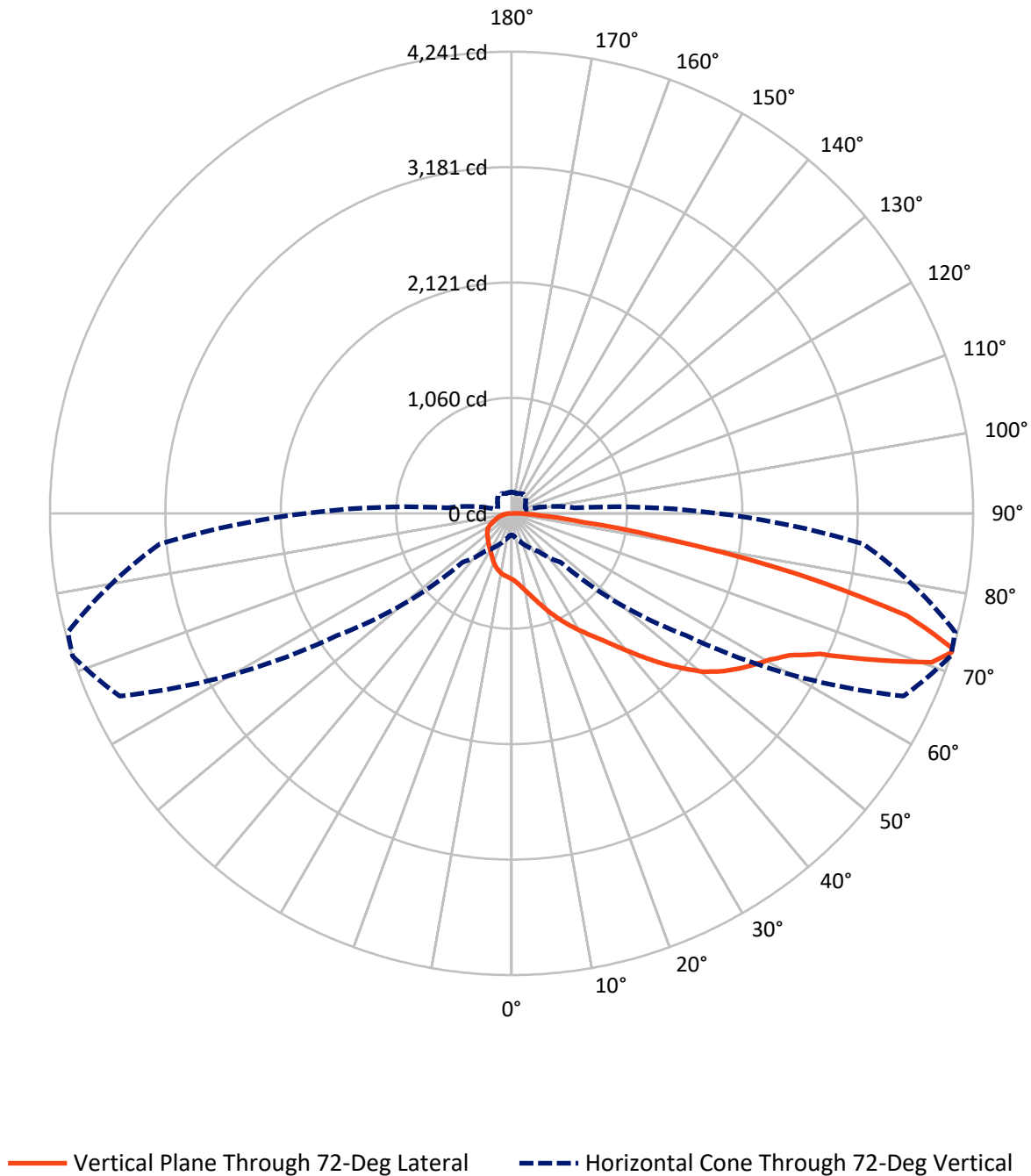
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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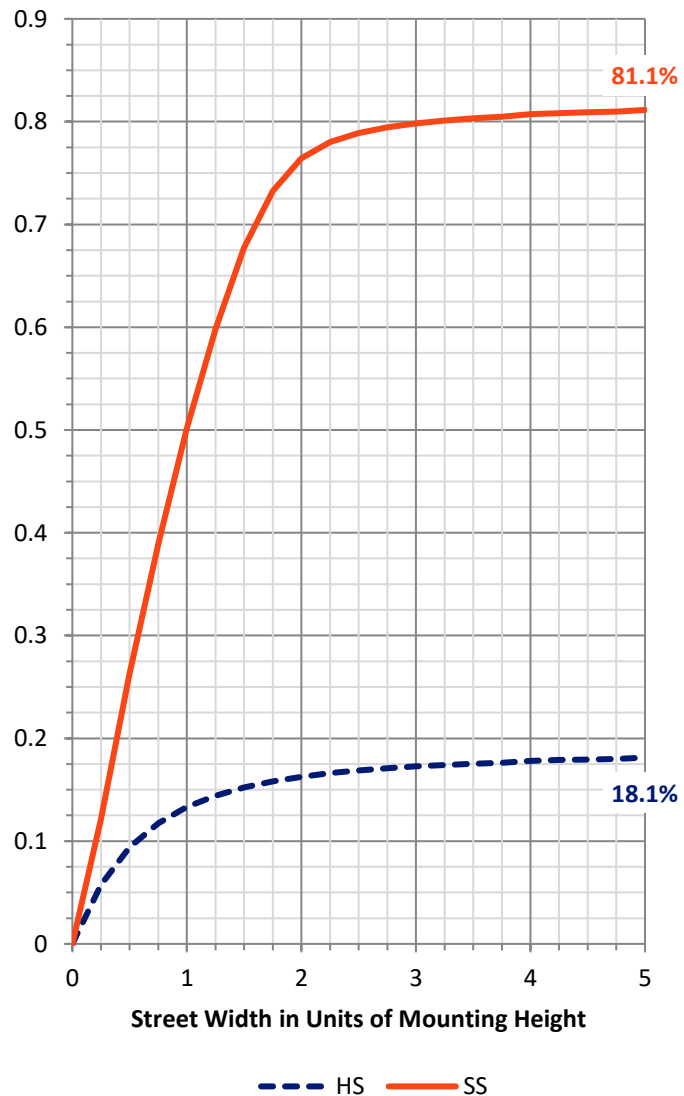
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	910.8	0.0	910.8
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	3999.2	0.0	3999.2
	% Fixture	81.4	0.0	81.4
Total	Lumens	4910.0	0.0	4910.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.5	1.2
10°-20°	195.6	4.0
20°-30°	342.7	7.0
30°-40°	508.2	10.4
40°-50°	743.3	15.1
50°-60°	1022.7	20.8
60°-70°	1138.6	23.2
70°-80°	771.5	15.7
80°-90°	126.8	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°	4910.0	100.0
0°-180°	4910.0	100.0

Coefficient of Utilization



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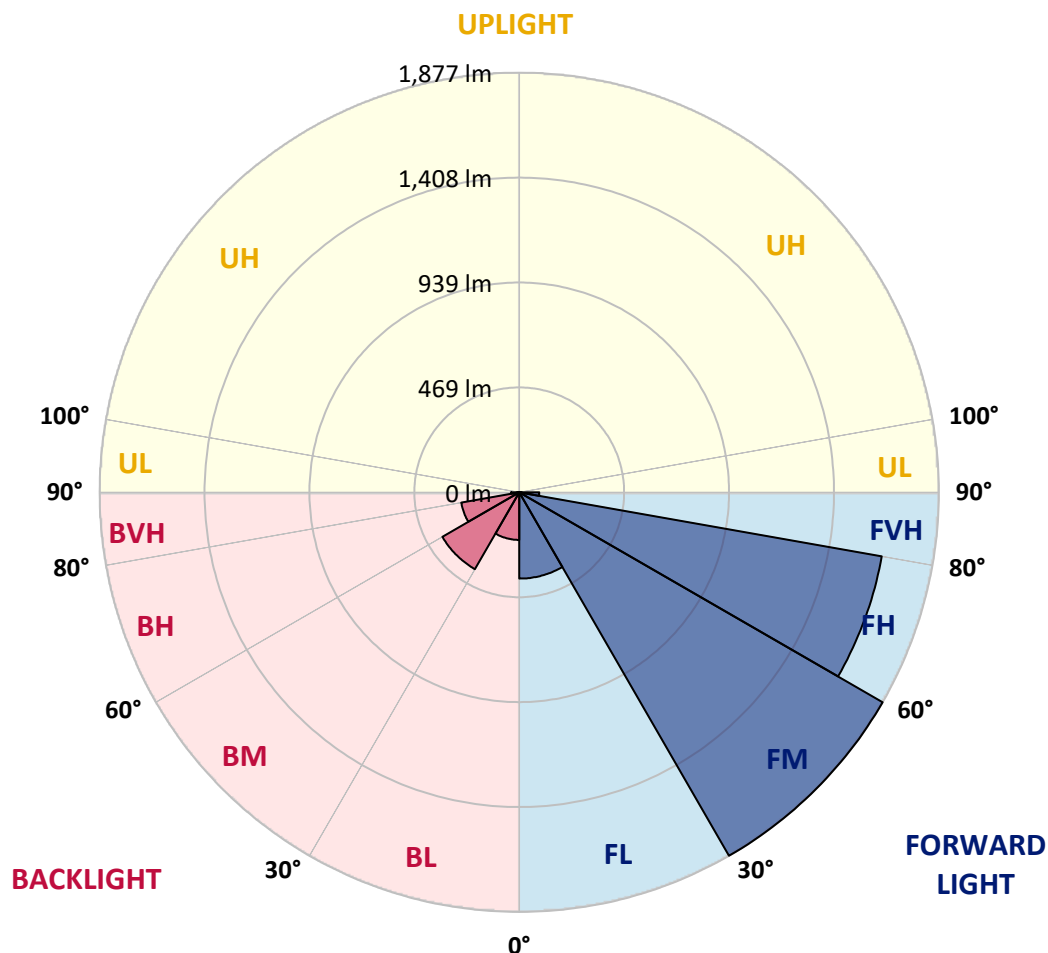
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	386.0	7.9			
FM	(30°-60°)	1877.2	38.2			
FH	(60°-80°)	1646.6	33.5			G1/1800
FVH	(80°-90°)	89.4	1.8			G1/100
BL	(0°-30°)	212.9	4.3	B1/500		
BM	(30°-60°)	397.0	8.1	B1/1000		
BH	(60°-80°)	263.5	5.4	B1/500		G1/500
BVH	(80°-90°)	37.4	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-G1

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1
2.5°	667.3	666.3	662.7	662.7	656.0	650.2	639.4	632.1	623.5	620.5	610.3
5°	731.9	732.2	727.8	724.8	714.8	702.6	684.2	667.5	650.7	644.0	623.2
7.5°	786.1	785.5	784.3	781.7	772.4	759.9	735.1	710.2	685.5	675.4	639.6
10°	821.0	822.5	823.5	824.7	820.8	811.8	788.3	758.1	725.8	711.9	659.2
12.5°	838.5	841.3	846.0	854.1	860.5	859.5	842.4	810.3	771.9	754.5	683.7
15°	848.9	852.4	859.8	874.4	892.5	902.8	898.2	869.1	826.4	804.9	713.6
17.5°	855.3	858.2	869.7	889.1	916.0	943.4	955.4	931.0	887.9	863.4	747.9
20°	859.7	861.9	876.2	899.1	933.9	977.5	1011.0	1004.9	955.7	923.9	783.8
22.5°	869.5	871.3	885.0	908.0	946.6	1002.9	1064.6	1073.7	1027.2	991.2	822.1
25°	896.9	896.9	908.4	924.4	960.6	1024.9	1109.9	1150.3	1100.3	1058.3	857.7
27.5°	949.1	948.6	952.8	958.4	985.8	1047.2	1150.3	1217.9	1176.0	1130.2	892.1
30°	1011.0	1014.4	1014.9	1012.2	1025.0	1075.1	1187.7	1289.3	1252.2	1202.9	927.5
32.5°	1090.6	1092.8	1090.3	1081.3	1079.5	1114.6	1224.3	1364.0	1334.7	1278.8	959.8
35°	1191.7	1187.5	1179.5	1161.3	1143.9	1167.5	1266.3	1438.7	1427.4	1370.6	1004.2
37.5°	1300.1	1300.3	1290.4	1249.0	1225.0	1235.2	1324.1	1523.4	1539.5	1479.8	1061.2
40°	1387.0	1391.5	1397.6	1343.2	1312.1	1326.1	1397.6	1621.6	1672.0	1609.3	1135.4
42.5°	1447.7	1452.9	1470.2	1436.0	1403.7	1429.8	1484.2	1726.5	1820.8	1758.8	1222.3
45°	1511.9	1514.8	1527.0	1512.3	1491.6	1550.3	1581.7	1835.0	1978.2	1918.0	1319.5
47.5°	1579.5	1582.6	1595.1	1585.3	1574.5	1662.9	1683.5	1937.3	2129.0	2093.0	1423.3
50°	1663.1	1665.1	1676.9	1659.2	1662.6	1747.8	1774.5	2031.1	2287.1	2250.2	1527.5
52.5°	1777.0	1777.5	1793.9	1777.9	1762.0	1810.0	1852.7	2119.5	2411.0	2393.6	1631.6
55°	1866.3	1871.7	1925.4	1922.1	1912.9	1866.4	1918.2	2203.7	2521.6	2529.8	1742.2
57.5°	1809.3	1830.4	1939.3	2016.1	2090.8	2006.9	2006.6	2298.6	2624.3	2663.6	1863.7
60°	1584.6	1613.4	1773.8	1944.0	2177.9	2251.4	2190.2	2414.4	2728.2	2796.1	2016.1
62.5°	1131.7	1179.0	1396.5	1668.3	2058.5	2413.4	2563.8	2598.1	2869.3	2949.6	2214.0
65°	572.1	607.9	790.2	1117.7	1644.6	2307.5	2969.9	3000.5	3114.6	3186.0	2518.9
67.5°	347.6	361.1	450.0	621.6	1008.3	1797.5	3102.5	3671.2	3589.4	3627.2	2953.5
70°	256.1	266.1	321.6	412.8	579.9	1054.8	2695.7	4149.8	4096.0	4091.8	3274.7
72°	199.5	206.8	255.8	333.6	424.0	632.8	1953.8	3973.1	4241.1	4219.8	3245.3
72.5°	189.2	195.6	240.2	313.9	400.7	573.6	1756.7	3853.9	4230.6	4221.0	3207.3
75°	148.9	153.5	177.9	242.8	313.6	325.4	962.6	2986.6	3753.0	3909.0	2884.7
77.5°	123.2	123.9	136.8	176.7	244.5	230.1	472.9	2072.2	2687.4	2859.0	2043.5
80°	100.4	101.3	107.4	123.9	185.0	170.2	224.5	1191.5	1504.7	1506.5	971.8
82.5°	80.0	80.1	86.9	90.6	132.9	121.7	128.7	559.4	657.5	632.5	349.3
85°	56.3	55.1	84.9	74.4	86.9	78.1	71.0	221.5	271.9	260.0	109.4
87.5°	18.8	19.4	37.7	48.2	50.7	44.3	31.6	84.9	102.6	101.8	34.7
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°	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1
2.5°	607.1	601.7	593.7	585.0	578.0	570.9	565.7	563.0	559.9	557.4	560.4
5°	613.5	603.4	586.5	569.9	557.7	546.9	539.1	535.1	531.4	528.8	529.2
7.5°	624.0	607.6	579.2	555.0	538.1	526.5	518.5	515.8	513.4	512.8	513.6
10°	635.2	611.0	569.6	537.4	518.2	508.5	505.0	506.8	508.5	510.1	511.8
12.5°	647.8	614.0	555.5	516.8	500.4	496.7	500.3	508.4	514.3	517.8	520.0
15°	664.4	616.7	539.3	496.2	485.2	489.4	501.4	515.5	525.8	532.4	533.4
17.5°	679.6	616.6	518.5	475.4	472.9	485.2	503.3	523.1	536.9	546.2	548.1
20°	695.4	612.0	494.3	455.1	460.4	480.6	504.1	528.0	544.7	555.5	558.1
22.5°	710.1	604.1	467.8	436.7	449.9	474.6	500.9	525.1	541.8	550.6	553.3
25°	720.0	590.2	440.9	421.1	440.6	467.1	490.4	509.9	522.4	526.8	527.5
27.5°	725.1	572.1	415.6	407.6	430.9	454.9	471.0	480.6	484.2	483.9	483.2
30°	725.8	548.3	393.7	396.6	419.8	437.0	444.6	442.8	438.2	430.4	431.1
32.5°	723.6	521.4	375.5	386.1	405.6	415.2	415.6	406.6	394.4	382.1	378.7
35°	724.3	495.0	359.4	374.3	388.3	392.6	388.7	375.5	358.9	343.0	339.6
37.5°	731.7	472.0	345.6	360.6	369.2	370.2	364.7	350.8	338.6	323.1	321.7
40°	749.5	455.6	332.4	345.2	350.1	350.6	342.7	332.9	333.9	325.6	325.4
42.5°	781.4	448.5	320.7	329.2	332.2	333.2	327.1	320.9	329.7	324.3	322.4
45°	822.7	450.2	310.9	313.4	319.0	323.8	320.0	312.4	315.8	292.3	284.5
47.5°	870.3	461.0	303.1	299.9	309.6	318.5	312.8	301.3	289.3	265.9	261.5
50°	926.1	477.8	296.0	286.6	299.2	311.4	305.7	289.3	271.2	259.8	258.3
52.5°	984.3	498.2	288.9	271.9	286.2	306.0	303.1	286.6	264.2	253.1	251.1
55°	1050.2	518.9	280.0	254.8	272.2	303.5	301.9	276.8	259.0	252.7	251.2
57.5°	1132.2	542.4	268.1	237.0	259.0	294.3	289.6	270.8	253.6	248.9	248.4
60°	1239.1	577.0	251.1	218.1	242.9	280.3	279.3	262.2	245.0	241.6	240.9
62.5°	1399.3	634.3	227.6	199.2	225.0	256.5	265.8	250.5	235.8	235.7	236.0
65°	1647.8	720.5	202.0	182.6	206.9	236.3	250.0	238.5	226.5	229.9	230.4
67.5°	1935.9	792.1	177.0	166.4	188.5	217.2	235.8	226.5	214.2	223.0	223.2
70°	2031.8	728.1	155.0	150.3	169.4	198.8	220.5	213.4	200.8	209.6	208.8
72°	1890.8	587.8	140.8	138.1	155.0	183.6	206.8	201.0	188.7	194.6	192.4
72.5°	1846.3	560.4	137.3	135.1	151.1	179.7	203.2	198.0	185.6	190.7	188.7
75°	1647.0	486.7	118.0	118.5	131.9	160.8	183.3	181.6	168.9	169.4	168.7
77.5°	1194.6	356.9	99.4	102.8	112.3	141.3	163.1	162.1	148.3	145.7	145.2
80°	554.4	182.1	81.0	82.5	92.3	118.2	139.1	137.8	126.6	123.4	121.6
82.5°	189.9	86.6	60.9	61.9	71.5	95.2	120.7	119.9	110.6	104.3	100.4
85°	67.8	43.1	42.6	41.6	51.1	74.9	105.2	100.6	86.9	74.0	73.7
87.5°	22.0	18.4	22.0	21.8	29.8	50.7	76.4	65.1	63.1	52.4	51.4
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)