

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: P319915

Luminaire Tested: **GAN-SA1B-727-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319915
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-SA1B-727-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 800mA 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: 4754 lumens
Efficiency: N/A
Efficacy: 108.0 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

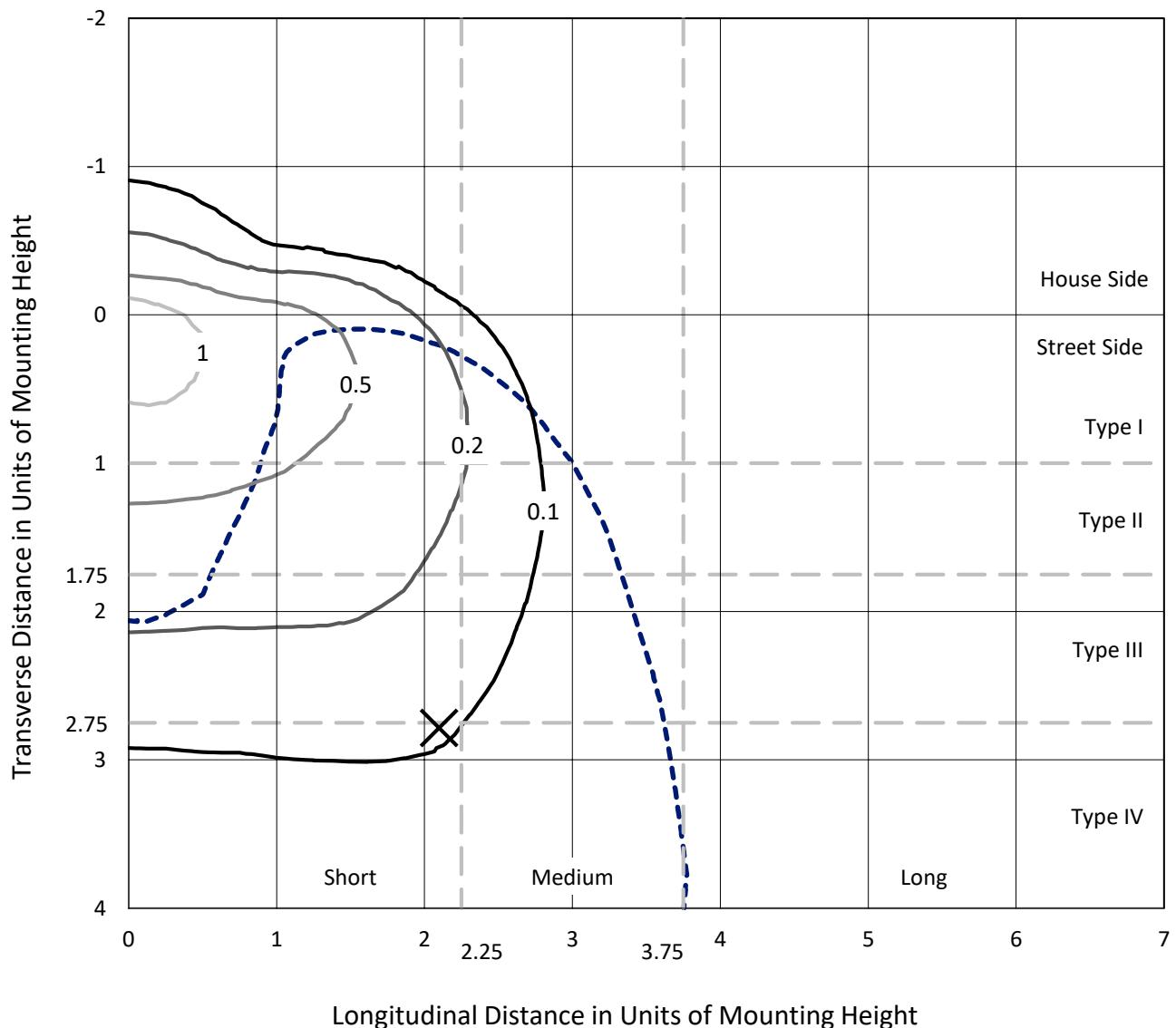
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

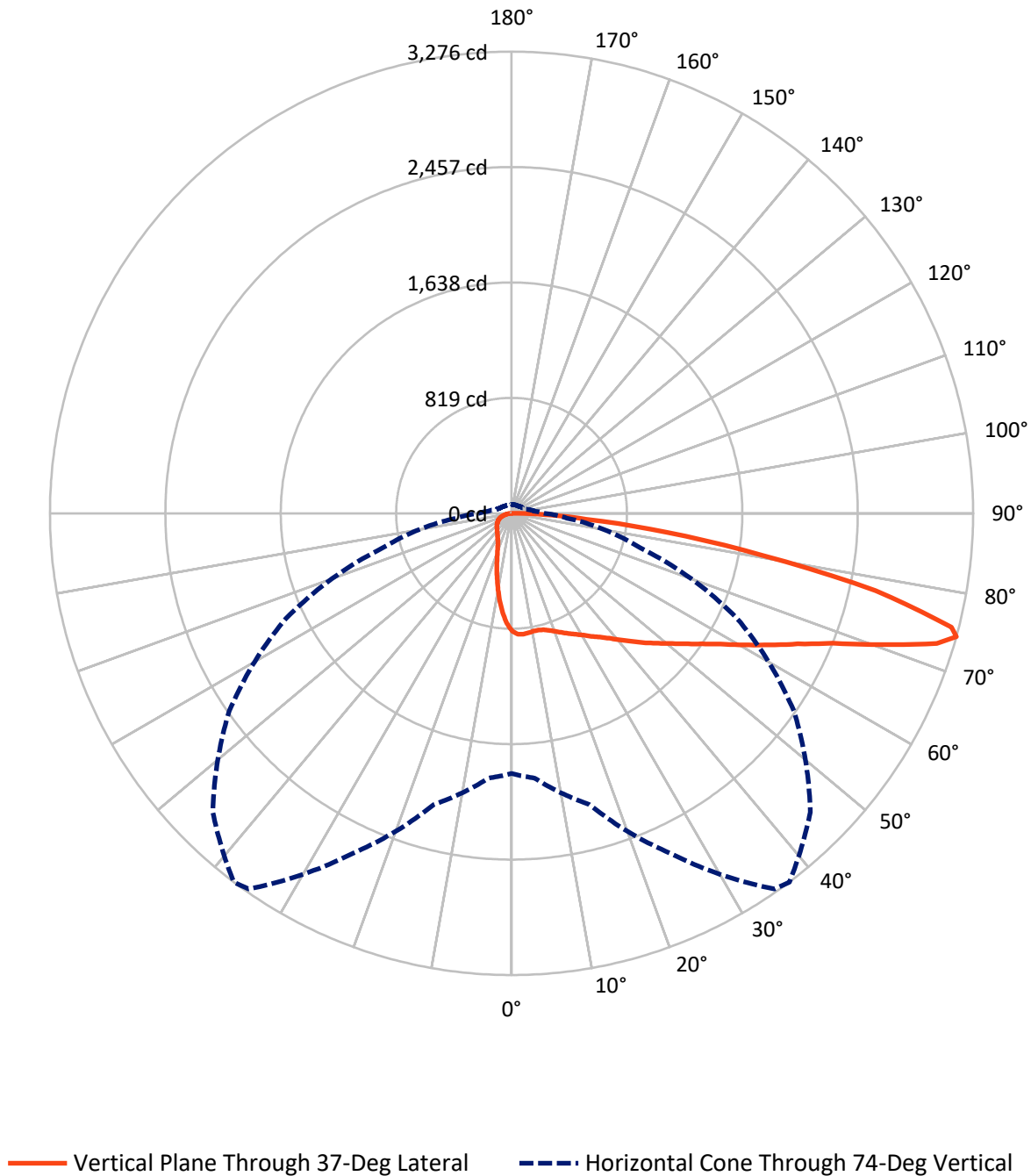
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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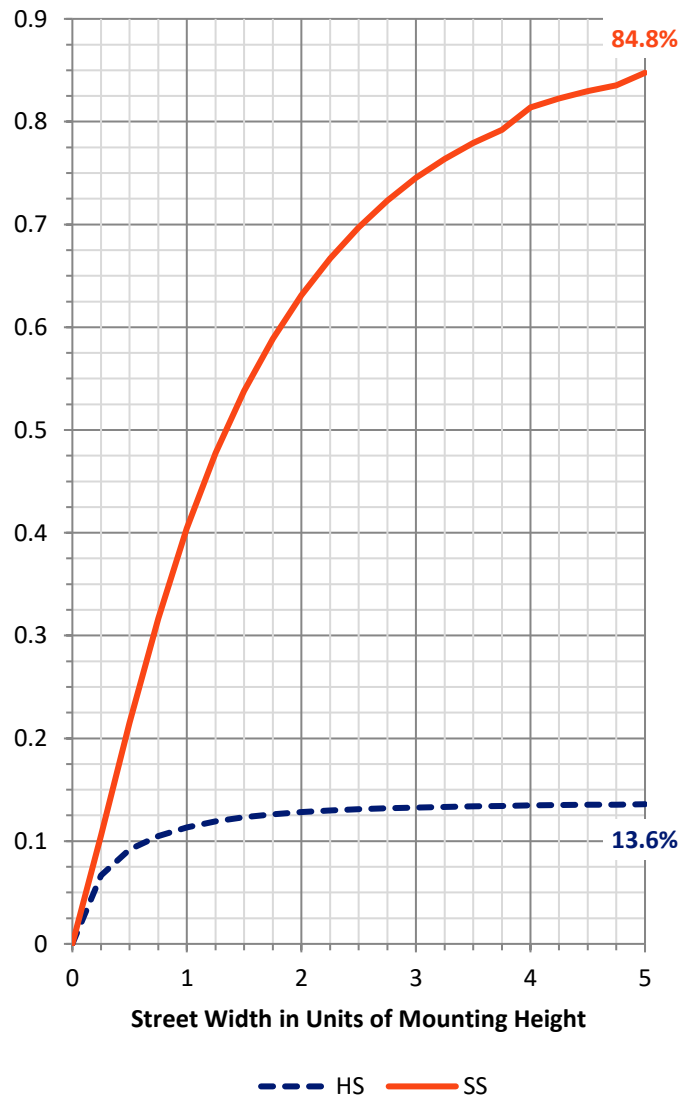
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	654.1	0.0	654.1
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	4099.9	0.0	4099.9
	% Fixture	86.2	0.0	86.2
Total	Lumens	4754.0	0.0	4754.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.8	1.6
10°-20°	189.1	4.0
20°-30°	291.3	6.1
30°-40°	423.6	8.9
40°-50°	623.5	13.1
50°-60°	875.6	18.4
60°-70°	1108.3	23.3
70°-80°	975.9	20.5
80°-90°	193.0	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°	4754.0	100.0
0°-180°	4754.0	100.0

Coefficient of Utilization



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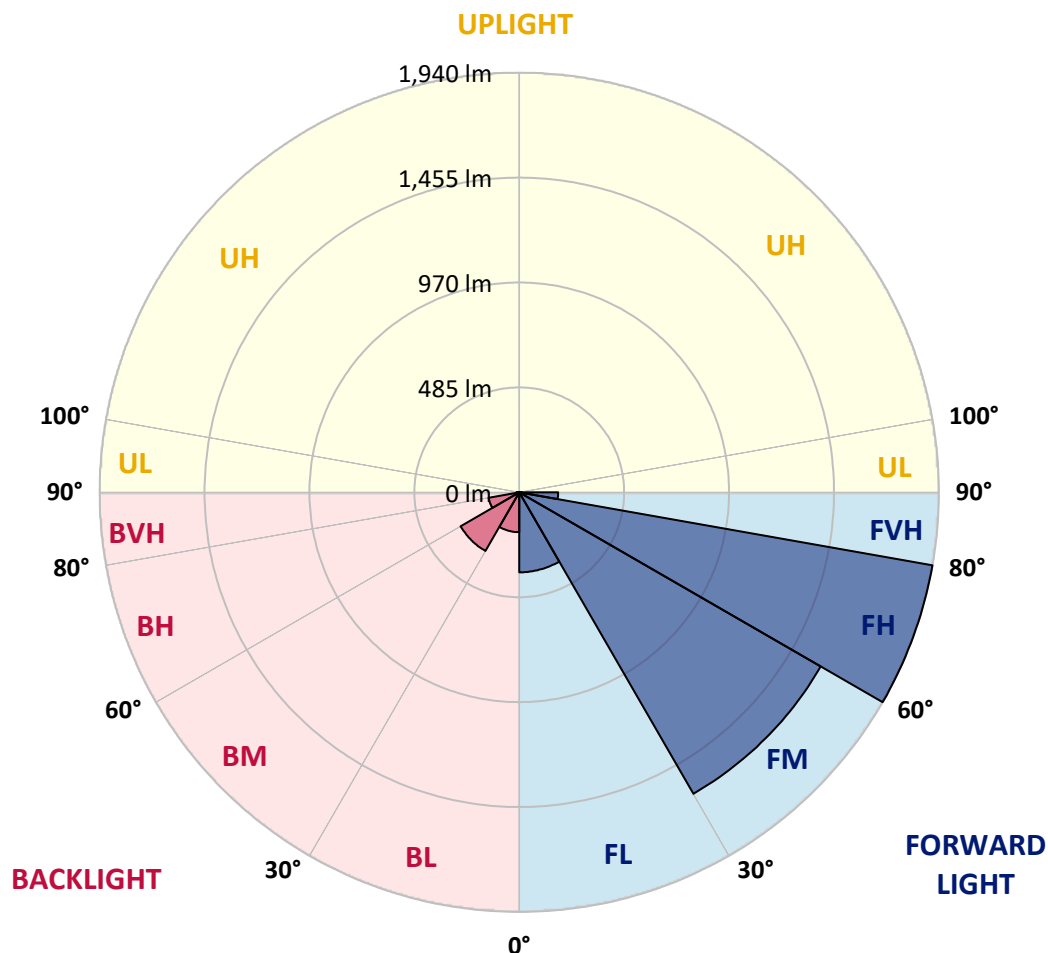
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	369.9	7.8			
FM	(30°-60°)	1609.7	33.9			
FH	(60°-80°)	1940.3	40.8			G2/5000
FVH	(80°-90°)	179.9	3.8			G2/225
BL	(0°-30°)	184.2	3.9	B1/500		
BM	(30°-60°)	313.0	6.6	B1/1000		
BH	(60°-80°)	143.8	3.0	B1/500		G1/500
BVH	(80°-90°)	13.1	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°	837.6	837.6	837.6	837.6	837.6	837.6	837.6	837.6	837.6	837.6	837.6
2.5°	866.3	866.4	866.3	864.9	861.8	859.1	856.9	853.7	846.7	841.3	833.3
5°	874.5	873.5	872.8	870.3	865.3	862.3	858.1	852.0	840.5	829.8	816.7
7.5°	870.6	869.5	867.9	864.9	859.2	856.7	850.9	843.0	829.1	815.0	796.3
10°	858.7	858.4	857.7	857.1	852.2	850.2	844.8	836.5	822.7	805.7	783.7
12.5°	845.5	846.3	849.0	852.5	850.4	849.4	846.0	840.3	826.2	807.8	781.4
15°	837.1	839.5	846.7	855.9	857.7	857.4	856.6	852.9	838.0	817.5	786.7
17.5°	834.3	838.1	851.9	867.1	872.5	873.6	874.0	867.6	851.0	829.4	792.3
20°	839.5	844.3	864.4	885.4	893.9	894.6	893.1	882.0	863.4	839.6	795.3
22.5°	855.2	859.6	884.7	908.3	918.0	919.0	914.5	897.8	876.5	851.7	799.5
25°	885.5	890.9	916.0	939.6	944.6	944.8	938.3	917.5	893.6	868.6	808.5
27.5°	925.1	930.4	953.0	976.1	973.4	971.9	963.1	942.3	915.8	891.9	824.6
30°	969.1	975.0	996.4	1012.8	1006.4	1003.4	996.2	969.4	946.8	923.7	849.2
32.5°	1014.6	1020.0	1038.8	1050.0	1041.9	1040.6	1029.7	1005.3	987.2	972.3	889.0
35°	1061.4	1065.2	1083.6	1090.0	1079.3	1078.9	1075.9	1053.5	1042.1	1049.1	947.0
37.5°	1109.1	1110.1	1125.8	1126.2	1123.0	1124.3	1127.5	1113.4	1116.6	1138.6	1022.3
40°	1151.6	1154.3	1165.7	1169.2	1174.7	1179.4	1195.3	1186.1	1210.7	1249.6	1116.1
42.5°	1183.1	1188.3	1206.6	1215.6	1233.5	1240.9	1263.3	1271.9	1321.4	1379.7	1227.7
45°	1209.7	1217.8	1247.1	1265.7	1296.0	1308.9	1341.0	1369.7	1446.5	1520.9	1345.0
47.5°	1238.5	1248.8	1285.4	1320.9	1362.1	1376.7	1435.1	1478.0	1580.0	1662.9	1455.7
50°	1280.9	1288.8	1324.6	1380.4	1431.8	1450.5	1531.4	1592.9	1715.6	1798.2	1551.7
52.5°	1340.0	1337.0	1367.3	1445.5	1514.5	1537.6	1634.2	1715.1	1853.1	1920.6	1632.7
55°	1399.5	1394.4	1415.7	1513.7	1611.0	1635.2	1747.4	1837.9	1983.9	2030.8	1694.9
57.5°	1465.6	1456.1	1474.0	1590.5	1720.8	1749.8	1874.2	1968.3	2112.5	2119.9	1734.4
60°	1533.8	1520.9	1541.0	1685.8	1860.3	1894.5	2022.6	2095.6	2233.8	2191.2	1747.1
62.5°	1593.4	1584.3	1615.3	1792.2	2017.6	2055.1	2168.3	2230.9	2353.3	2220.9	1701.2
65°	1645.5	1647.0	1700.6	1911.7	2192.9	2232.9	2335.4	2397.7	2447.4	2203.3	1593.9
67.5°	1707.6	1716.1	1807.6	2069.1	2413.6	2457.5	2578.6	2579.6	2500.0	2100.1	1382.6
70°	1798.2	1815.8	1954.8	2287.5	2727.4	2787.7	2881.2	2686.4	2426.2	1820.5	1087.8
72.5°	1878.6	1911.4	2111.3	2537.4	3109.9	3155.6	3058.2	2624.8	2117.5	1364.3	677.7
74°	1845.9	1886.6	2139.8	2660.4	3253.9	3275.9	2998.4	2444.9	1765.5	944.8	393.9
75°	1775.6	1819.8	2098.3	2659.3	3235.7	3223.4	2854.0	2239.4	1454.1	644.4	262.1
77.5°	1433.0	1479.7	1768.0	2279.1	2653.1	2641.5	2192.4	1502.3	636.9	211.3	133.1
80°	833.1	868.8	1097.5	1447.4	1789.0	1809.9	1441.8	743.4	250.5	118.7	90.3
82.5°	370.1	394.7	530.2	738.8	1079.6	1106.6	755.1	389.5	154.7	72.2	54.3
85°	242.8	261.1	321.9	351.8	514.1	532.5	369.6	303.3	102.2	39.7	39.9
87.5°	174.7	192.2	239.1	208.8	236.0	223.4	201.1	280.7	41.0	22.6	13.4
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°	837.6	837.6	837.6	837.6	837.6	837.6	837.6	837.6	837.6	837.6	837.6
2.5°	829.8	827.1	821.1	809.7	803.3	797.9	789.1	783.9	781.5	781.4	782.4
5°	809.2	803.0	787.4	768.3	753.1	739.2	721.9	711.5	704.2	699.8	701.0
7.5°	785.2	775.5	751.1	720.6	696.1	669.2	642.5	626.6	614.2	605.0	606.7
10°	768.8	755.4	719.7	675.9	635.2	596.0	559.3	537.4	520.0	506.6	507.6
12.5°	763.3	745.2	695.8	637.2	580.1	526.5	478.6	444.9	427.0	411.8	413.0
15°	764.1	739.8	675.7	602.4	530.5	463.0	404.9	365.6	341.3	330.7	330.9
17.5°	764.8	733.6	654.6	565.0	481.4	403.7	340.6	300.8	277.8	268.1	268.3
20°	762.6	723.6	628.5	522.1	430.2	349.3	288.2	254.4	237.0	229.4	229.4
22.5°	759.8	711.7	599.0	479.1	379.6	302.1	250.7	224.9	214.9	209.8	209.7
25°	761.1	702.8	568.9	434.9	333.1	264.4	225.7	208.7	202.0	198.8	198.6
27.5°	768.3	698.6	541.1	390.9	292.4	236.1	209.0	196.9	192.6	190.6	190.6
30°	781.4	698.6	512.1	353.3	258.6	215.2	196.1	187.9	184.9	183.5	183.5
32.5°	804.1	702.5	484.1	316.2	231.6	198.8	185.4	179.9	177.5	176.8	176.8
35°	843.3	715.6	456.8	281.0	209.8	185.4	175.2	172.0	170.3	170.1	170.6
37.5°	898.4	742.2	431.2	255.0	194.4	174.5	166.6	164.1	163.1	163.9	164.6
40°	967.8	778.4	407.9	231.6	182.7	165.8	158.8	157.1	156.6	157.7	158.8
42.5°	1051.5	827.3	388.8	214.7	173.7	158.4	152.1	150.0	149.5	150.9	152.2
45°	1142.1	879.8	375.4	202.1	166.6	152.9	146.2	144.0	143.0	143.7	145.2
47.5°	1224.5	929.6	370.1	193.2	159.9	148.2	141.0	138.3	136.6	136.3	137.5
50°	1294.0	966.6	372.6	187.9	154.6	143.0	136.0	133.0	130.5	128.9	129.8
52.5°	1344.5	989.9	374.9	185.5	150.4	137.3	130.5	127.6	124.3	121.7	121.7
55°	1381.2	995.2	369.8	183.7	147.2	131.1	124.3	121.6	118.2	115.4	115.0
57.5°	1395.6	980.1	350.5	181.0	145.0	125.3	117.7	115.7	112.9	109.5	109.4
60°	1376.2	933.6	313.3	175.3	142.2	120.4	111.2	109.9	108.5	105.3	105.2
62.5°	1298.2	831.4	265.3	163.8	136.5	115.2	105.2	105.8	106.0	103.8	103.5
65°	1156.6	691.1	218.4	148.7	127.9	109.0	99.0	102.2	104.0	103.7	103.2
67.5°	951.0	537.9	185.0	132.8	116.7	100.5	92.3	96.0	97.5	98.6	98.3
70°	705.8	379.3	153.1	116.0	103.2	90.4	83.6	85.4	84.4	85.7	86.2
72.5°	393.5	227.6	124.8	99.3	89.1	78.7	73.8	73.5	71.3	71.3	71.3
74°	236.1	167.0	109.7	88.9	80.5	71.0	66.8	65.3	63.3	63.5	63.3
75°	189.9	143.5	100.6	82.1	74.5	66.5	62.3	60.3	58.8	58.8	58.6
77.5°	119.9	109.0	81.1	65.3	59.6	54.8	51.9	49.2	49.2	49.1	48.9
80°	90.6	86.7	63.1	49.4	45.7	42.0	40.2	39.0	39.0	39.5	39.4
82.5°	62.1	65.3	44.4	34.5	32.7	30.0	29.6	29.8	29.3	28.6	28.5
85°	45.4	49.1	30.0	21.8	19.9	18.3	19.6	20.3	19.4	17.9	17.2
87.5°	17.4	32.2	16.1	9.0	8.4	7.2	8.4	8.7	9.4	7.4	7.5
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)