

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: P318655

Luminaire Tested: **GAN-SA1D-727-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318655
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1D-727-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV FORWARD
THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6835 lumens
Efficiency: N/A
Efficacy: 102.0 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

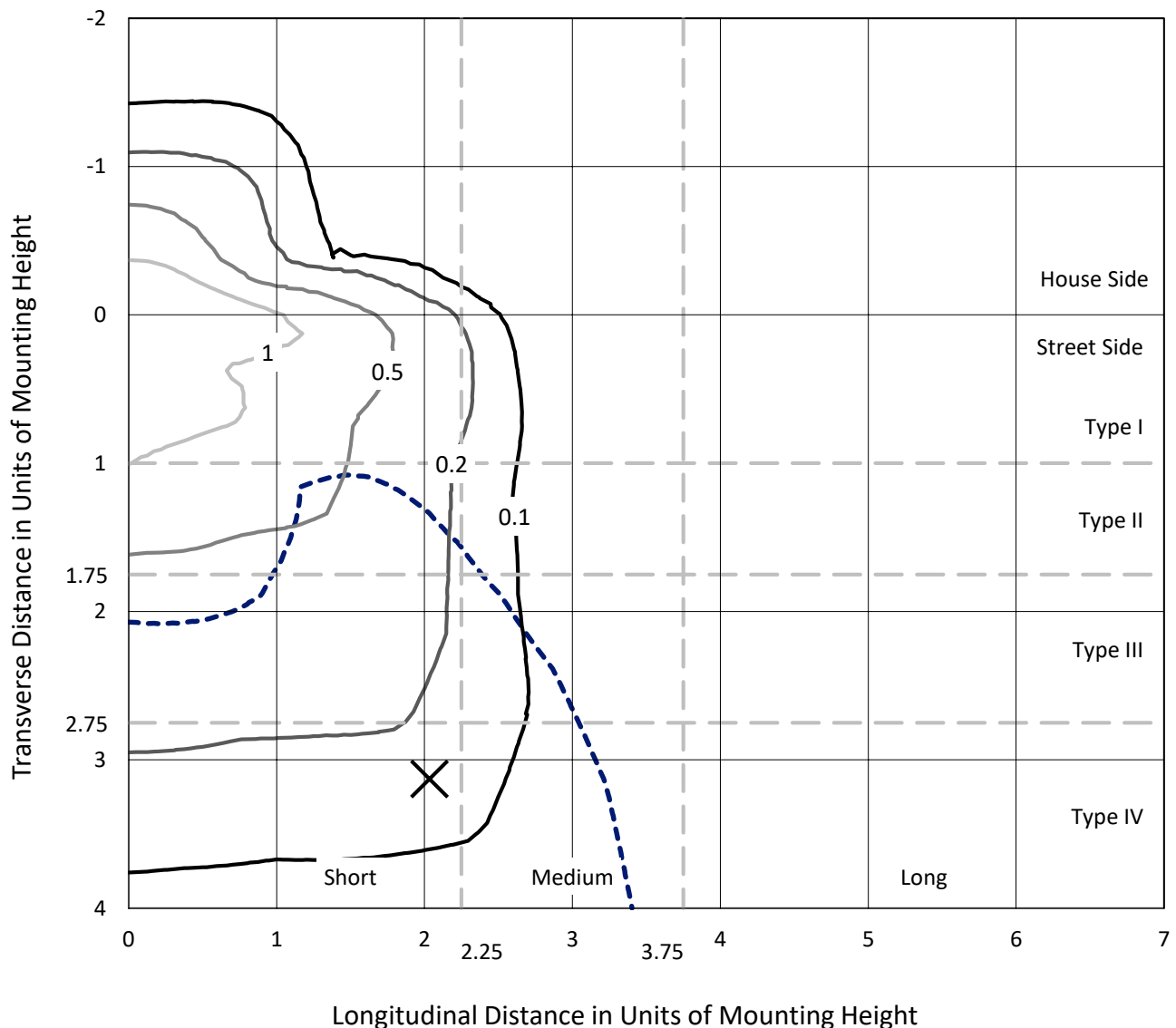
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

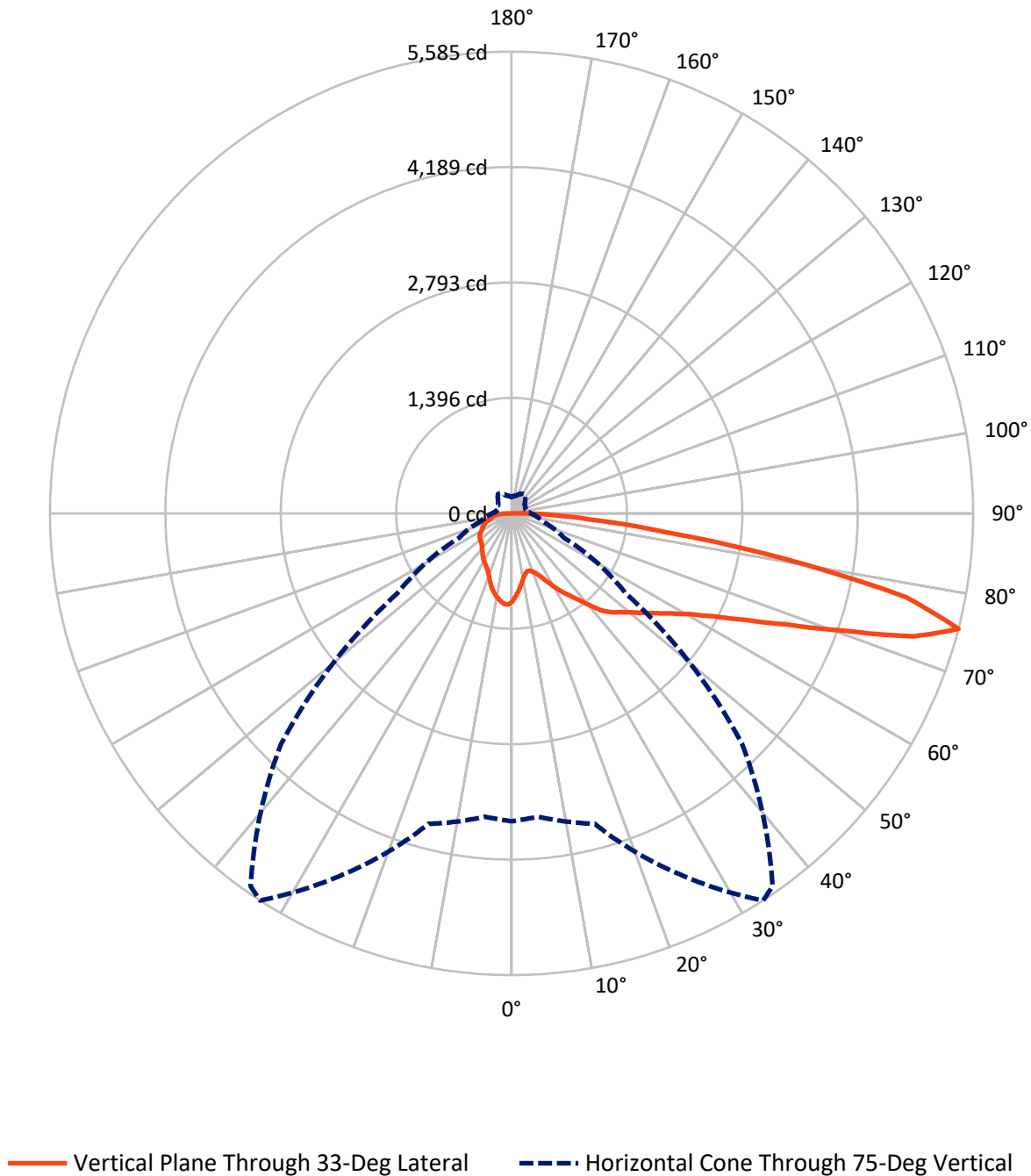
× Max cd
- - - 1/2 Max cd



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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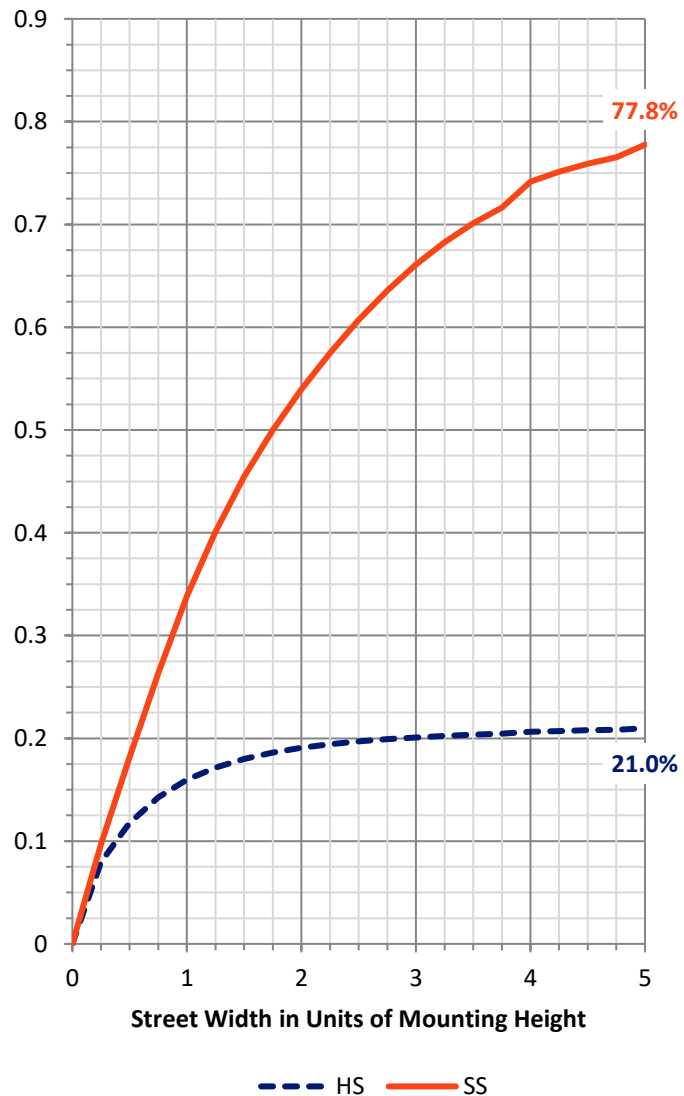
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1467.7	0.0	1467.7
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	5367.3	0.0	5367.3
	% Fixture	78.5	0.0	78.5
Total	Lumens	6835.0	0.0	6835.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.6	1.4
10°-20°	261.7	3.8
20°-30°	427.4	6.3
30°-40°	636.5	9.3
40°-50°	912.8	13.4
50°-60°	1253.2	18.3
60°-70°	1568.9	23.0
70°-80°	1419.3	20.8
80°-90°	258.5	3.8
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°	6835.0	100.0
0°-180°	6835.0	100.0

Coefficient of Utilization



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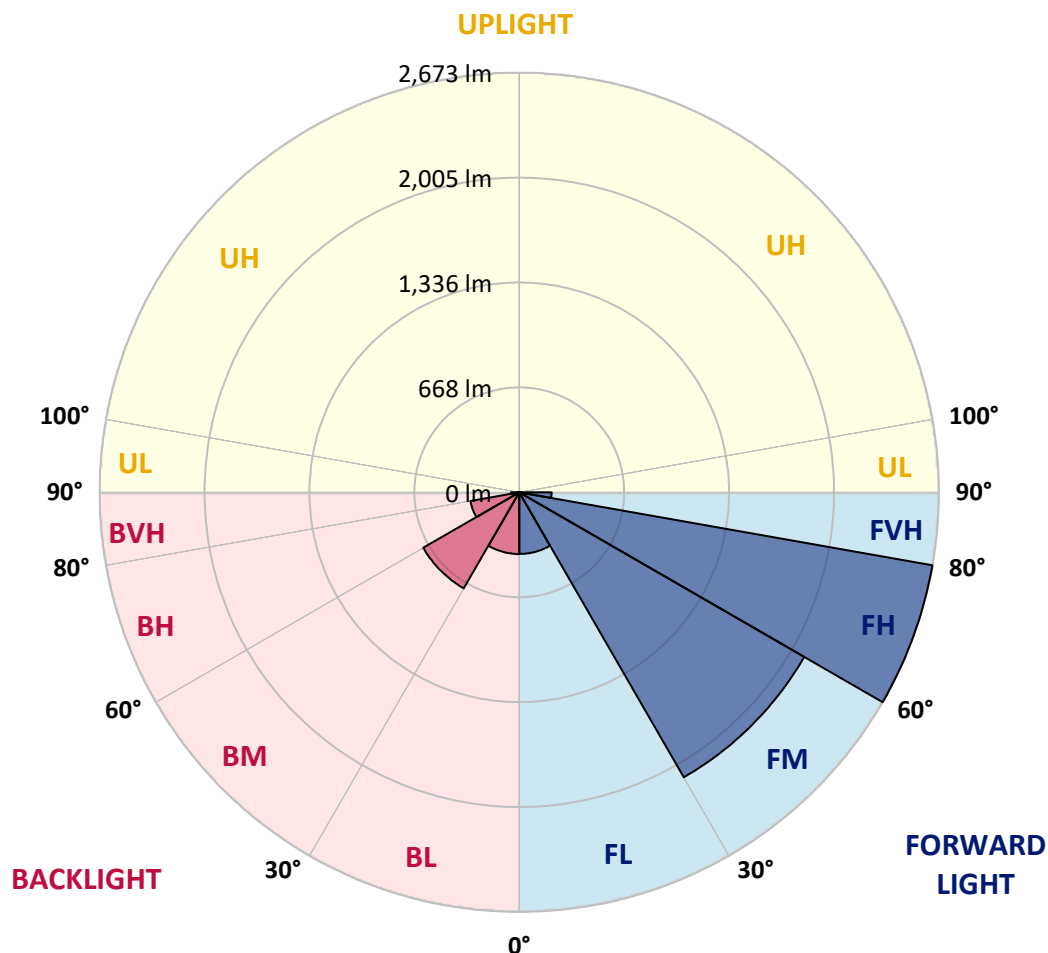
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	392.6	5.7			
FM	(30°-60°)	2096.2	30.7			
FH	(60°-80°)	2672.7	39.1			G2/5000
FVH	(80°-90°)	205.9	3.0			G2/225
BL	(0°-30°)	393.1	5.8	B1/500		
BM	(30°-60°)	706.3	10.3	B1/1000		
BH	(60°-80°)	315.6	4.6	B1/500		G1/500
BVH	(80°-90°)	52.6	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-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	1068.3	1068.3	1068.3	1068.3	1068.3	1068.3	1068.3	1068.3	1068.3	1068.3	1068.3
2.5°	992.1	988.3	995.4	996.3	1002.5	1004.8	1013.3	1026.6	1037.4	1049.9	1061.3
5°	902.1	899.5	909.5	916.5	930.0	935.7	955.7	983.8	1008.9	1037.2	1062.9
7.5°	816.7	815.3	826.3	842.4	858.0	865.8	900.5	941.3	983.1	1028.9	1068.3
10°	744.7	744.2	754.8	770.6	793.5	802.3	847.1	901.0	959.5	1022.5	1077.6
12.5°	704.3	705.9	710.9	724.1	745.4	754.1	803.9	867.2	939.7	1020.4	1091.0
15°	714.2	716.8	708.3	707.8	722.9	729.8	776.5	843.1	925.5	1024.0	1110.6
17.5°	756.5	756.9	734.5	720.3	729.5	733.1	768.0	829.4	917.2	1032.0	1135.2
20°	816.0	814.8	775.1	751.5	756.5	757.4	780.1	829.7	916.5	1045.9	1167.0
22.5°	894.8	886.1	832.7	800.6	799.4	798.0	811.0	847.1	926.9	1068.6	1205.1
25°	997.8	989.5	916.1	872.2	862.7	859.2	861.1	884.4	947.5	1092.9	1247.5
27.5°	1112.3	1097.9	1027.0	964.9	945.3	940.4	929.1	937.1	969.9	1116.3	1298.1
30°	1208.1	1200.3	1138.5	1064.8	1041.7	1034.6	1004.8	996.1	1002.2	1148.2	1361.8
32.5°	1261.7	1256.5	1219.0	1159.5	1138.0	1128.1	1086.1	1068.6	1054.2	1198.4	1448.2
35°	1326.6	1323.3	1300.7	1257.5	1225.6	1215.2	1182.6	1164.4	1127.4	1267.6	1559.9
37.5°	1409.3	1405.7	1406.2	1371.3	1333.3	1323.6	1302.1	1283.0	1222.3	1358.5	1681.3
40°	1502.8	1495.9	1493.3	1491.7	1467.6	1462.2	1450.8	1424.9	1341.3	1467.1	1801.0
42.5°	1643.5	1619.2	1567.2	1586.8	1610.7	1607.8	1617.0	1579.7	1473.5	1595.6	1917.8
45°	1779.2	1739.3	1649.6	1653.9	1706.1	1721.9	1790.8	1764.4	1616.8	1736.3	2038.7
47.5°	1841.1	1810.9	1734.6	1734.9	1786.6	1819.4	1970.5	1951.6	1767.4	1896.1	2186.3
50°	1910.3	1880.1	1811.6	1837.3	1882.4	1917.4	2144.0	2134.3	1910.8	2071.1	2363.1
52.5°	1985.8	1934.6	1891.2	1937.2	2000.5	2041.1	2317.8	2291.3	2042.3	2247.2	2566.4
55°	1986.8	1972.8	2005.9	2039.7	2134.3	2184.2	2499.8	2429.9	2149.4	2420.3	2731.9
57.5°	2099.9	2077.2	2147.3	2162.9	2286.6	2342.8	2680.9	2550.6	2258.5	2552.9	2821.1
60°	2249.6	2230.2	2287.6	2328.6	2475.0	2550.1	2874.3	2674.5	2344.2	2653.0	2816.9
62.5°	2508.1	2486.1	2485.4	2543.0	2740.2	2827.5	3091.2	2796.1	2378.2	2672.9	2696.7
65°	2886.5	2851.6	2785.7	2813.1	3106.4	3193.5	3333.7	2884.2	2333.4	2566.6	2387.2
67.5°	3254.9	3253.7	3172.7	3228.9	3589.9	3659.8	3610.0	2892.9	2193.4	2196.7	1838.0
70°	3622.0	3626.7	3613.0	3808.5	4243.2	4315.9	3904.1	2775.6	1878.6	1586.4	1101.2
72.5°	3912.9	3911.7	3980.6	4484.7	5091.0	5074.7	4152.0	2420.0	1348.8	856.3	526.3
75°	3724.5	3683.4	3888.8	4819.5	5585.2	5505.6	3941.2	1688.1	700.0	389.8	283.3
77.5°	2429.2	2468.2	2769.7	3981.3	4885.4	4788.6	2891.5	787.6	329.8	255.7	205.4
80°	879.7	920.8	1296.9	2255.2	3365.8	3350.0	1423.9	323.7	223.1	193.1	149.7
82.5°	302.7	317.8	511.6	1001.5	1900.4	1971.2	535.7	183.9	162.2	136.9	102.5
85°	118.8	136.0	234.0	481.9	958.6	965.6	217.0	110.0	112.9	89.7	56.2
87.5°	45.1	54.8	111.9	223.8	437.7	402.1	77.7	52.4	64.2	53.4	26.7
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°	1068.3	1068.3	1068.3	1068.3	1068.3	1068.3	1068.3	1068.3	1068.3	1068.3	1068.3
2.5°	1070.0	1075.0	1085.3	1092.4	1100.0	1102.1	1103.1	1104.9	1106.8	1106.1	1106.4
5°	1076.6	1086.3	1103.1	1110.1	1113.4	1109.7	1102.3	1096.4	1092.2	1089.8	1089.1
7.5°	1087.5	1101.2	1119.1	1117.9	1110.4	1093.6	1074.7	1060.6	1048.8	1044.5	1042.1
10°	1101.9	1117.9	1130.4	1117.0	1095.0	1066.0	1037.7	1015.7	998.0	991.1	990.0
12.5°	1120.3	1136.6	1138.9	1110.4	1074.0	1034.4	995.9	966.8	940.4	931.9	930.0
15°	1144.1	1159.5	1144.8	1098.8	1048.0	994.7	944.9	905.4	877.6	867.2	863.4
17.5°	1169.2	1183.8	1146.0	1079.7	1014.0	947.7	885.1	844.8	812.9	800.8	799.4
20°	1199.1	1205.8	1141.1	1052.3	967.3	886.8	820.9	782.9	765.9	757.4	756.5
22.5°	1236.2	1229.1	1129.7	1015.2	908.0	816.4	762.8	745.1	740.9	739.0	739.7
25°	1275.4	1253.7	1113.0	966.8	833.2	746.1	720.3	725.3	731.0	730.3	730.3
27.5°	1318.6	1278.7	1087.2	902.6	750.3	688.5	691.5	709.7	718.2	718.0	717.7
30°	1374.1	1307.0	1054.4	825.4	672.9	647.9	666.5	688.7	700.3	699.8	700.0
32.5°	1442.3	1338.2	1009.8	739.2	616.9	617.9	639.4	661.3	674.8	673.6	673.8
35°	1522.1	1373.2	949.4	654.2	579.9	594.0	611.0	626.4	639.1	637.5	635.8
37.5°	1609.0	1407.4	869.1	578.2	549.6	571.8	586.0	588.6	594.5	590.2	587.2
40°	1691.7	1433.6	765.7	515.9	519.2	552.9	562.2	551.8	541.1	539.7	535.5
42.5°	1763.7	1442.3	661.1	466.1	487.1	533.1	538.8	517.1	497.9	489.0	485.2
45°	1839.7	1445.4	563.6	424.3	456.1	515.4	521.5	492.5	465.6	446.2	439.9
47.5°	1939.1	1467.6	487.8	393.3	432.5	503.6	512.3	472.9	438.0	410.3	404.4
50°	2069.2	1511.5	426.2	369.7	417.2	495.8	505.7	453.8	415.3	382.0	376.1
52.5°	2213.7	1551.9	376.3	350.6	402.3	482.1	497.2	440.1	394.0	355.8	349.4
55°	2314.7	1521.0	336.2	330.8	383.0	462.5	485.4	428.5	363.6	330.3	324.6
57.5°	2334.1	1415.2	305.7	310.2	359.6	438.0	467.2	402.8	347.1	319.2	313.3
60°	2281.2	1267.9	283.1	291.3	334.6	407.0	433.2	384.6	331.2	307.4	302.4
62.5°	2148.3	1117.0	266.3	274.3	311.2	375.6	412.0	365.5	315.2	293.9	289.0
65°	1879.8	937.8	250.3	259.2	289.5	348.5	392.9	347.8	299.4	283.1	278.4
67.5°	1419.0	702.4	235.2	243.2	270.1	324.9	372.1	330.3	284.0	273.6	268.0
70°	835.6	439.9	217.9	226.4	249.8	300.3	349.9	311.2	264.9	260.2	252.9
72.5°	388.9	264.7	198.3	206.6	224.3	267.5	321.3	286.2	242.2	231.8	221.9
75°	232.1	193.6	175.2	182.5	195.0	232.6	285.4	260.7	220.8	207.1	196.7
77.5°	173.5	148.0	149.7	157.5	167.6	203.5	252.9	240.6	204.2	193.6	186.5
80°	124.9	112.4	122.1	130.6	141.2	185.1	242.2	222.4	184.6	170.5	163.9
82.5°	83.3	80.7	91.8	100.6	111.0	162.0	227.6	194.8	157.7	139.8	125.1
85°	46.0	48.6	61.9	65.6	74.6	114.0	186.5	156.5	118.8	95.6	91.4
87.5°	19.1	22.4	33.3	32.1	39.7	68.0	122.8	94.4	75.6	56.4	43.9
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)