

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: P322686

Luminaire Tested: **GAN-SA2C-827-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322686
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2C-827-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7556 lumens
Efficiency: N/A
Efficacy: 66.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

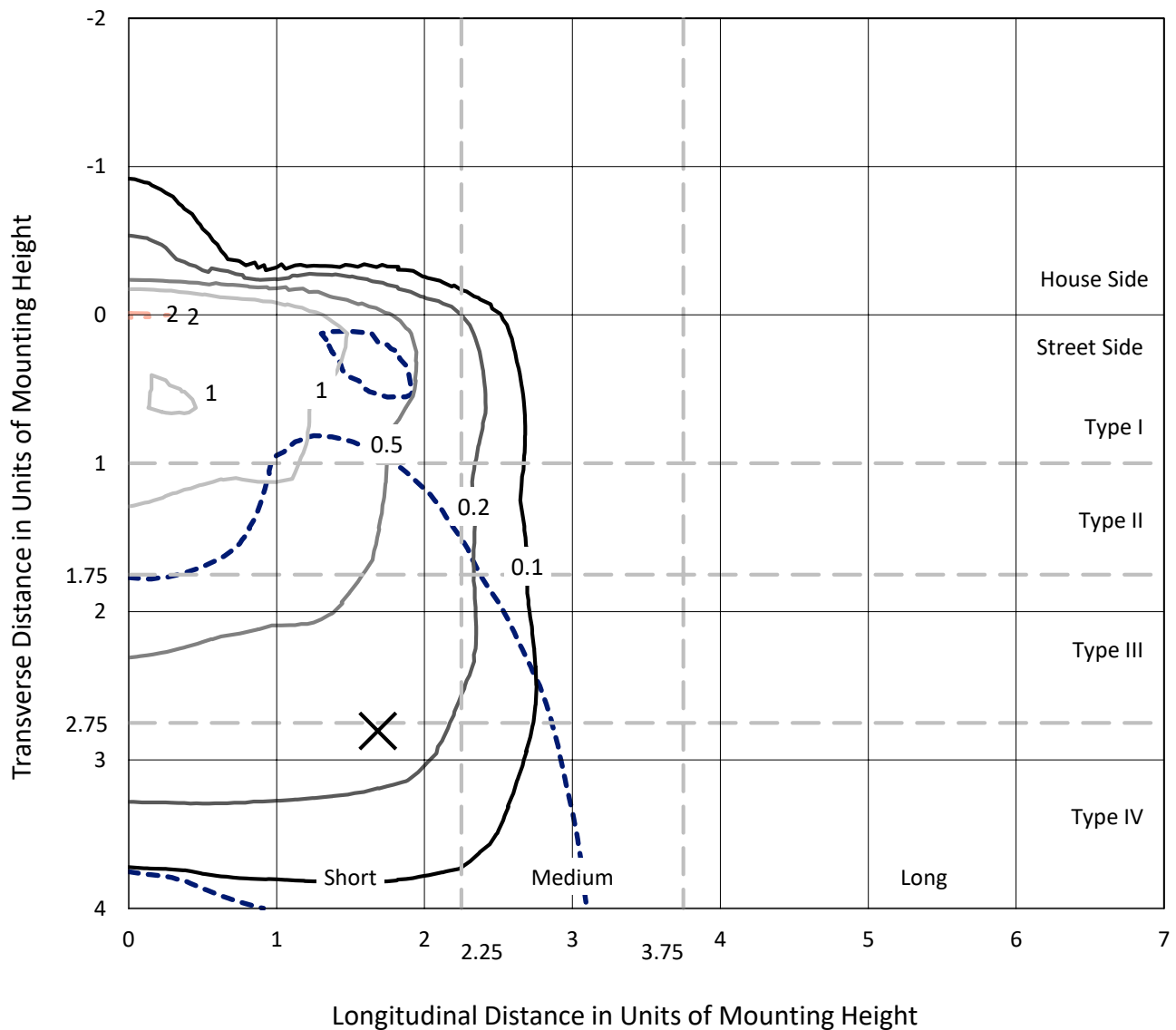
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

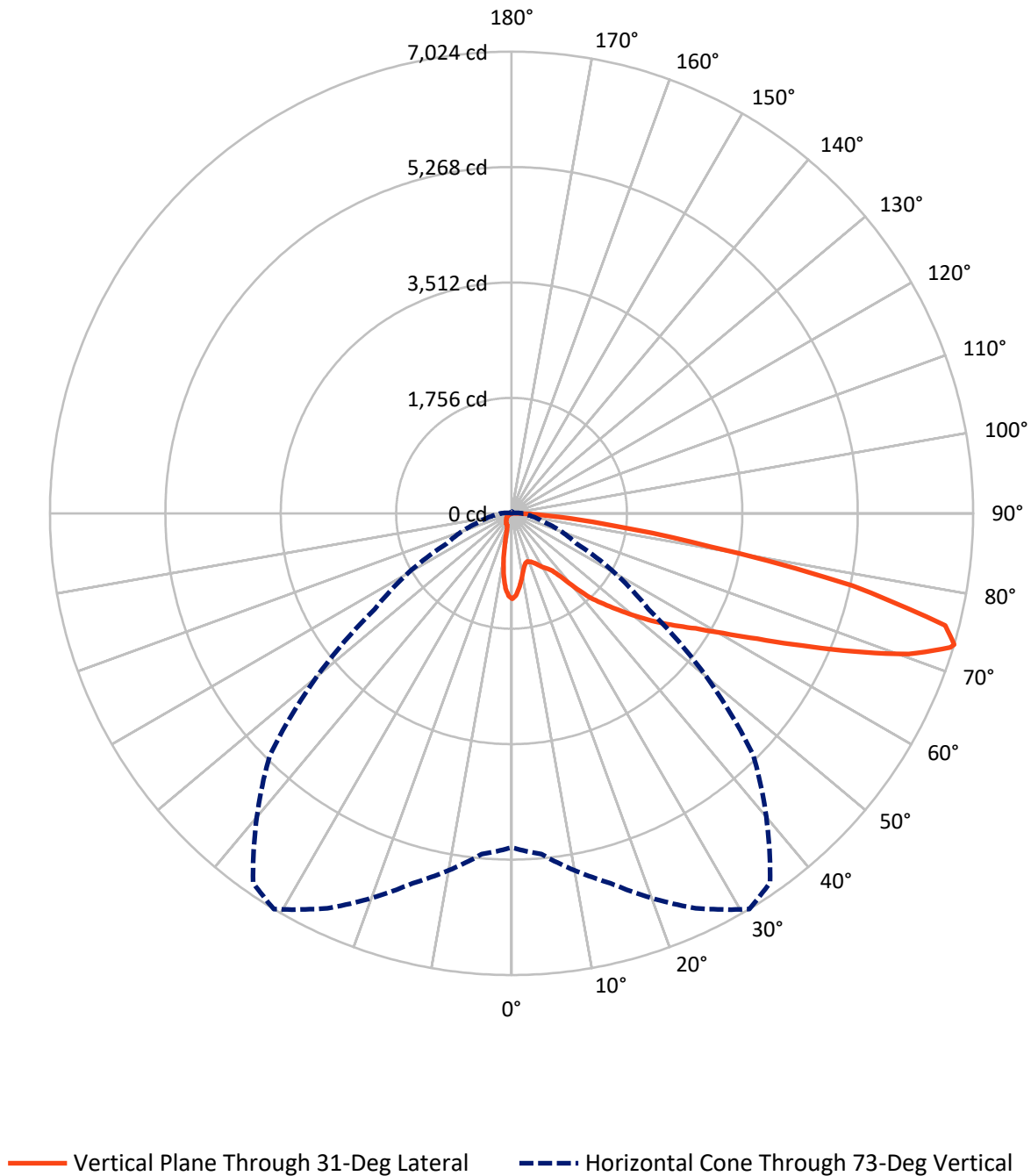
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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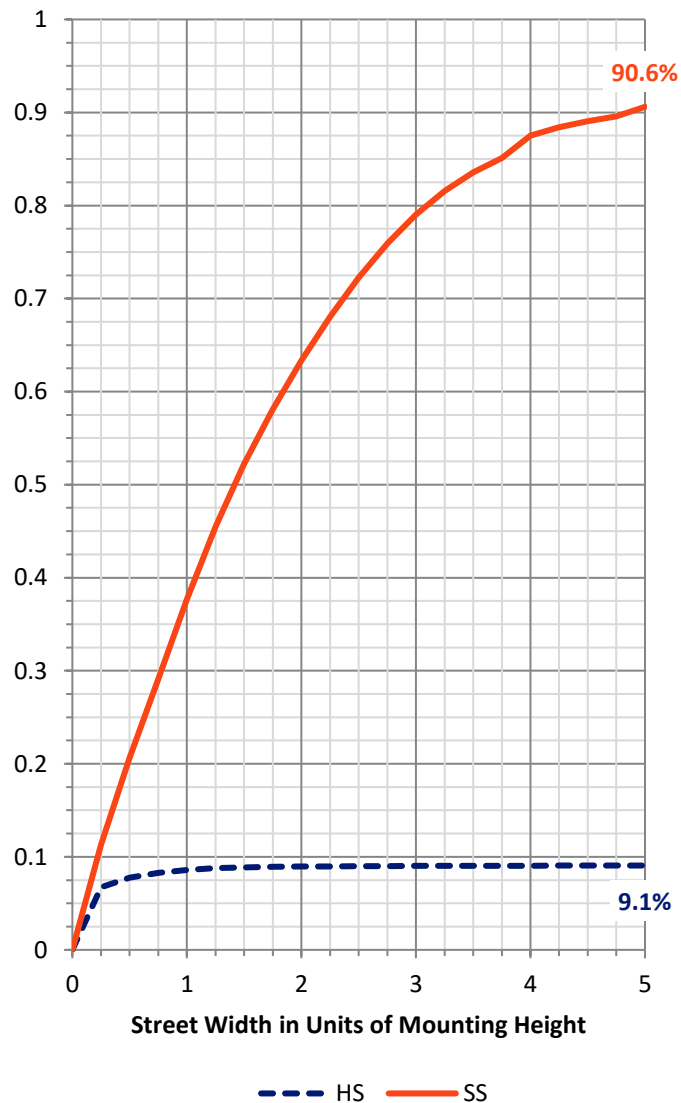
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	688.8	0.0	688.8
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	6867.2	0.0	6867.2
	% Fixture	90.9	0.0	90.9
Total	Lumens	7556.0	0.0	7556.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.8	1.4
10°-20°	234.0	3.1
20°-30°	350.7	4.6
30°-40°	557.9	7.4
40°-50°	996.3	13.2
50°-60°	1545.9	20.5
60°-70°	2055.1	27.2
70°-80°	1545.9	20.5
80°-90°	162.4	2.1
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°	7556.0	100.0
0°-180°	7556.0	100.0

Coefficient of Utilization



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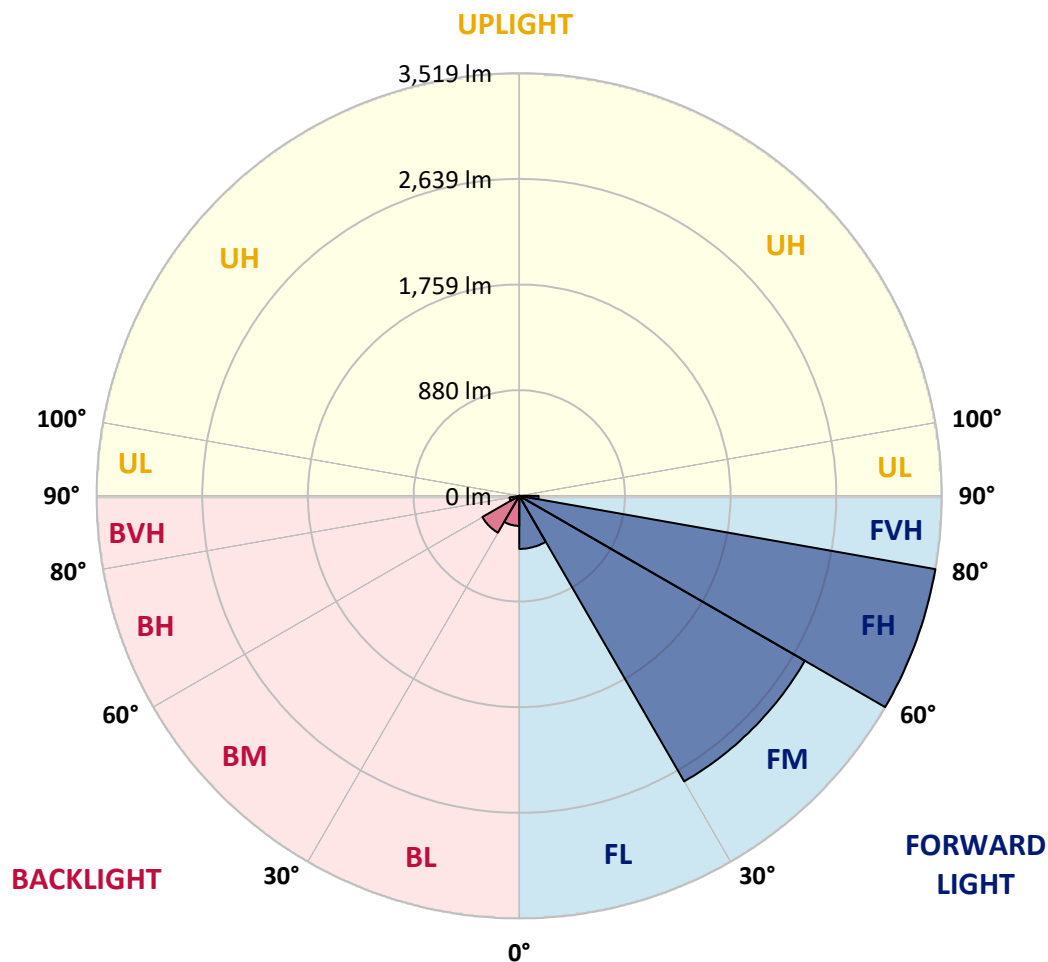
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	442.0	5.9			
FM	(30°-60°)	2745.6	36.3			
FH	(60°-80°)	3518.5	46.6			G2/5000
FVH	(80°-90°)	161.1	2.1			G2/225
BL	(0°-30°)	250.5	3.3	B1/500		
BM	(30°-60°)	354.5	4.7	B1/1000		
BH	(60°-80°)	82.4	1.1	B0/110		G0/110
BVH	(80°-90°)	1.4	0.0			G0/10
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°	31°	35°	45°	55°	65°	75°	85°
0°	1300.0	1300.0	1300.0	1300.0	1300.0	1300.0	1300.0	1300.0	1300.0	1300.0	1300.0
2.5°	1232.0	1237.2	1242.7	1243.8	1253.1	1253.4	1266.7	1276.7	1286.7	1296.3	1299.7
5°	1105.5	1114.0	1124.0	1134.0	1153.6	1161.4	1193.9	1227.2	1259.0	1289.3	1304.1
7.5°	970.6	980.2	994.2	1019.0	1040.8	1056.0	1107.4	1166.5	1225.7	1281.5	1313.7
10°	847.5	856.3	871.1	897.4	931.0	951.7	1020.9	1103.0	1189.8	1274.5	1328.1
12.5°	769.1	773.9	782.0	810.1	840.4	863.7	945.1	1046.7	1160.3	1274.1	1351.4
15°	754.7	756.1	749.5	762.0	785.7	808.3	890.7	1001.3	1137.7	1280.1	1381.7
17.5°	777.6	776.8	754.7	753.2	772.0	790.5	864.1	969.8	1121.8	1293.7	1420.9
20°	812.3	809.7	771.3	764.3	784.2	801.6	862.2	958.0	1115.9	1316.7	1468.6
22.5°	858.5	854.1	793.8	786.4	807.9	826.0	885.2	969.5	1121.1	1347.4	1524.1
25°	915.9	909.2	832.7	824.5	846.3	864.5	926.2	1002.4	1136.6	1384.7	1594.3
27.5°	980.6	971.0	894.8	873.7	898.5	917.3	980.9	1052.7	1161.0	1424.3	1680.5
30°	1041.6	1029.0	960.2	925.5	955.8	976.9	1040.1	1112.6	1200.2	1485.3	1798.4
32.5°	1103.0	1088.9	1018.6	977.2	1004.6	1027.5	1101.1	1195.0	1273.8	1578.4	1955.2
35°	1244.2	1229.4	1143.3	1074.9	1074.5	1087.4	1186.5	1307.8	1371.0	1708.2	2142.3
37.5°	1481.9	1473.4	1391.4	1261.6	1226.8	1212.4	1303.0	1442.4	1510.8	1886.8	2353.4
40°	1742.2	1734.8	1642.8	1525.2	1472.3	1436.8	1470.1	1629.8	1708.2	2105.0	2569.0
42.5°	2036.2	2001.1	1836.9	1801.8	1754.4	1727.5	1697.5	1860.9	1950.8	2342.3	2782.7
45°	2303.1	2244.0	2031.0	1977.8	1967.0	1973.7	1990.3	2171.5	2223.6	2624.5	2995.7
47.5°	2462.1	2415.5	2252.1	2201.1	2198.1	2242.1	2367.9	2522.4	2495.4	2870.3	3183.1
50°	2613.4	2571.2	2435.5	2448.1	2461.8	2521.7	2796.4	2883.3	2743.5	3093.3	3355.1
52.5°	2735.7	2671.4	2600.4	2671.0	2738.3	2834.8	3238.6	3207.2	2919.5	3270.8	3502.2
55°	2806.4	2777.2	2811.5	2882.5	3009.0	3165.8	3656.0	3476.7	3048.2	3432.7	3600.2
57.5°	3065.2	3007.9	3076.3	3137.7	3302.6	3521.8	4013.6	3677.5	3141.0	3532.9	3622.8
60°	3378.4	3332.1	3372.4	3474.5	3697.1	3954.8	4347.8	3841.3	3189.4	3597.3	3564.3
62.5°	3876.8	3815.8	3790.6	3904.9	4199.9	4481.3	4601.5	3954.8	3178.7	3568.8	3363.9
65°	4544.5	4481.3	4368.9	4472.4	4847.7	5046.3	4885.1	3978.8	3104.8	3338.4	2857.4
67.5°	5228.6	5182.7	5086.6	5261.1	5599.8	5663.8	5184.9	3920.4	2866.6	2706.9	2018.8
70°	5680.4	5660.8	5723.3	6109.3	6411.4	6392.9	5460.0	3606.5	2234.4	1664.6	998.7
72.5°	5354.7	5448.6	5910.0	6609.9	6978.9	6828.1	5318.8	2769.4	1277.1	640.4	288.8
73°	5084.7	5204.9	5826.1	6628.8	7023.7	6858.4	5200.1	2542.0	1088.5	505.4	218.9
75°	3537.4	3684.9	4823.3	6173.6	6814.4	6534.5	4334.5	1555.9	504.3	224.1	88.4
77.5°	1717.5	1826.5	2655.9	4460.6	5299.6	5105.4	2698.4	579.8	227.8	140.1	40.7
80°	641.1	712.9	1152.9	2270.2	3062.6	3142.8	1186.9	219.3	151.6	112.8	20.7
82.5°	167.9	187.1	425.2	1012.4	1569.6	1642.8	374.2	110.6	110.9	92.8	12.6
85°	53.6	61.4	132.7	454.4	739.5	649.3	97.6	53.6	80.6	69.1	7.0
87.5°	6.7	8.5	42.2	106.9	163.1	90.6	15.2	15.9	34.4	38.5	4.1
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°	1300.0	1300.0	1300.0	1300.0	1300.0	1300.0	1300.0	1300.0	1300.0	1300.0	1300.0
2.5°	1303.0	1301.1	1301.5	1291.9	1285.6	1273.0	1260.1	1254.2	1247.9	1245.3	1247.9
5°	1309.6	1306.3	1296.7	1267.1	1235.7	1195.0	1156.9	1128.1	1091.9	1081.9	1092.2
7.5°	1320.0	1313.3	1285.2	1225.0	1155.1	1077.4	990.2	926.6	874.4	840.8	853.0
10°	1335.2	1322.6	1266.0	1163.6	1038.6	901.1	777.2	680.7	612.3	584.2	583.1
12.5°	1360.7	1337.0	1242.3	1083.7	896.3	712.9	550.6	445.9	390.5	354.6	353.8
15°	1388.8	1354.0	1212.4	988.0	730.6	510.6	354.6	275.1	239.2	227.8	226.3
17.5°	1423.2	1373.6	1173.6	870.0	557.2	338.3	231.5	208.5	207.1	205.9	205.9
20°	1466.4	1396.9	1123.7	735.1	395.3	225.9	196.7	198.2	198.9	197.4	197.8
22.5°	1516.7	1420.6	1064.1	590.1	267.3	188.9	188.2	190.0	190.8	190.0	190.4
25°	1575.1	1447.9	991.7	438.1	193.0	179.3	181.2	183.8	185.6	185.6	185.6
27.5°	1647.6	1481.2	904.4	305.8	166.8	169.3	174.5	179.3	181.9	182.7	182.7
30°	1741.9	1522.6	799.8	209.6	151.6	156.0	165.6	174.9	179.7	180.4	180.8
32.5°	1860.9	1569.2	678.5	154.9	138.7	142.0	152.3	167.9	177.1	178.6	178.6
35°	1997.4	1623.2	548.0	135.0	129.4	130.5	138.7	156.4	172.7	176.7	177.1
37.5°	2146.7	1676.4	416.7	126.1	121.6	121.6	127.6	142.7	161.9	174.5	176.0
40°	2286.1	1708.6	292.1	119.1	114.6	114.6	119.8	130.9	149.0	167.9	171.9
42.5°	2414.8	1719.7	203.4	112.4	108.0	109.1	113.5	122.4	136.1	154.9	158.6
45°	2547.2	1717.8	148.3	104.6	101.3	104.6	108.0	114.6	124.6	135.3	136.1
47.5°	2647.0	1702.3	117.6	97.2	95.0	99.5	102.4	106.9	112.4	111.7	111.7
50°	2740.6	1664.6	94.7	87.3	88.7	93.9	95.4	96.9	97.2	90.2	89.5
52.5°	2811.5	1605.8	75.8	76.5	82.5	87.6	86.2	83.9	80.2	71.7	70.3
55°	2835.2	1492.7	59.5	63.2	73.2	79.9	74.3	69.5	62.5	55.5	54.0
57.5°	2792.3	1346.6	48.4	49.2	61.7	67.3	61.0	55.5	47.7	41.8	40.7
60°	2701.4	1184.3	39.9	37.0	47.7	52.5	48.4	42.9	35.9	31.4	31.1
62.5°	2520.9	1011.3	32.9	28.8	36.2	40.3	37.7	33.6	27.7	24.8	24.4
65°	2141.6	809.0	26.6	23.3	28.1	31.4	29.2	26.3	21.8	19.6	19.2
67.5°	1494.9	546.9	21.8	19.2	22.2	24.8	22.9	21.4	17.4	17.0	17.4
70°	721.0	263.6	18.1	15.5	17.4	19.2	18.5	17.4	16.6	19.2	22.2
72.5°	206.7	88.4	14.4	12.9	14.1	15.2	15.9	15.5	18.1	23.3	27.0
73°	159.0	71.4	13.7	12.2	13.3	14.8	15.5	15.2	18.5	23.7	27.0
75°	68.0	34.4	10.4	10.0	11.1	12.9	13.7	13.7	18.5	24.0	25.9
77.5°	30.7	18.5	6.7	7.8	9.6	10.4	11.5	11.5	14.8	18.5	18.5
80°	17.4	10.0	5.2	5.9	7.0	7.0	7.0	6.3	6.7	7.4	8.1
82.5°	11.1	6.7	4.1	4.8	4.4	3.7	3.0	3.0	2.6	3.0	3.7
85°	6.3	3.7	3.7	3.0	1.8	1.5	1.8	1.5	0.4	0.0	0.4
87.5°	3.7	2.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)