

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: P322626

Luminaire Tested: **GAN-SA2A-760-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322626
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-SA2A-760-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5700K, 615mA 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: 6771 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

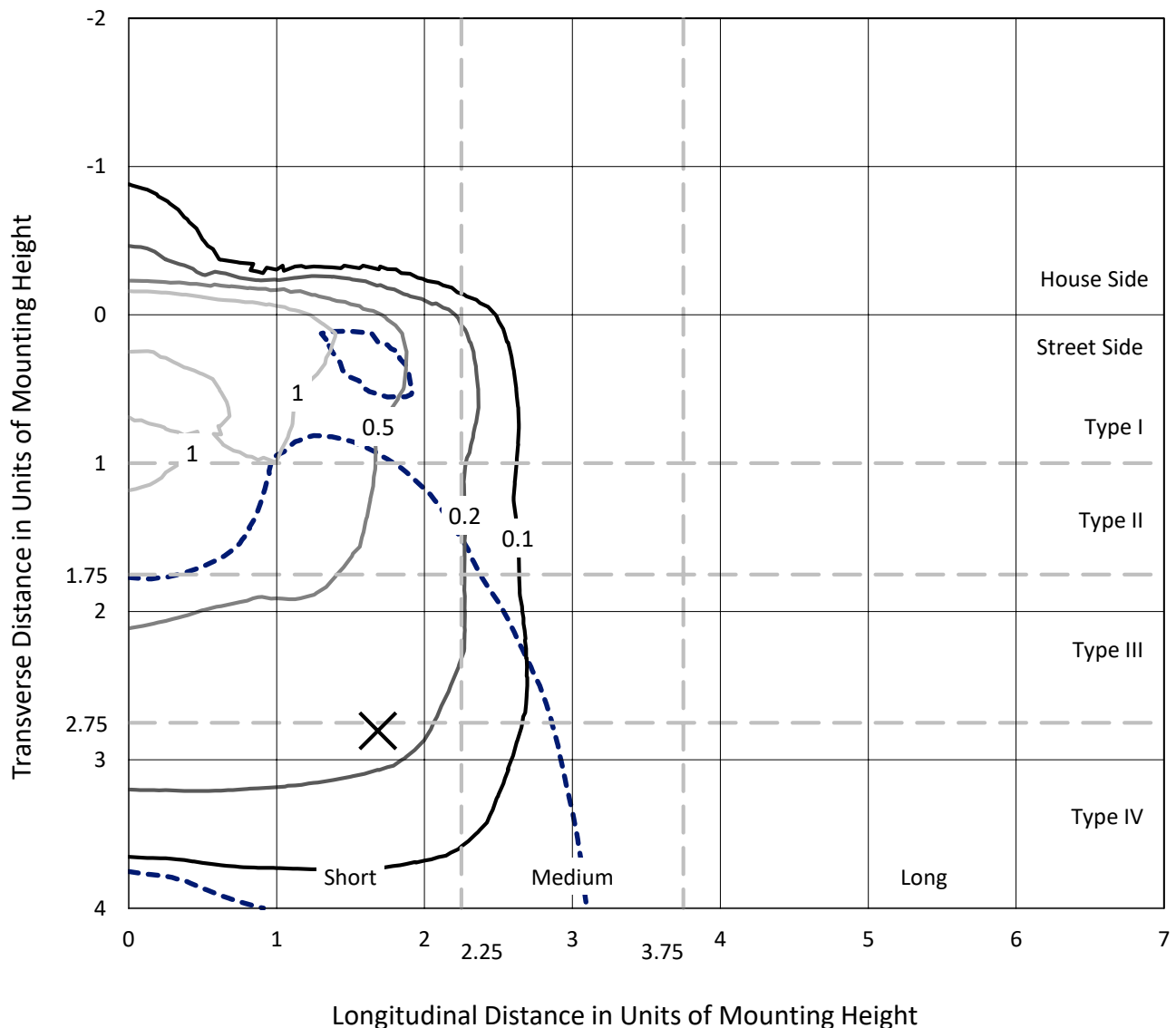
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

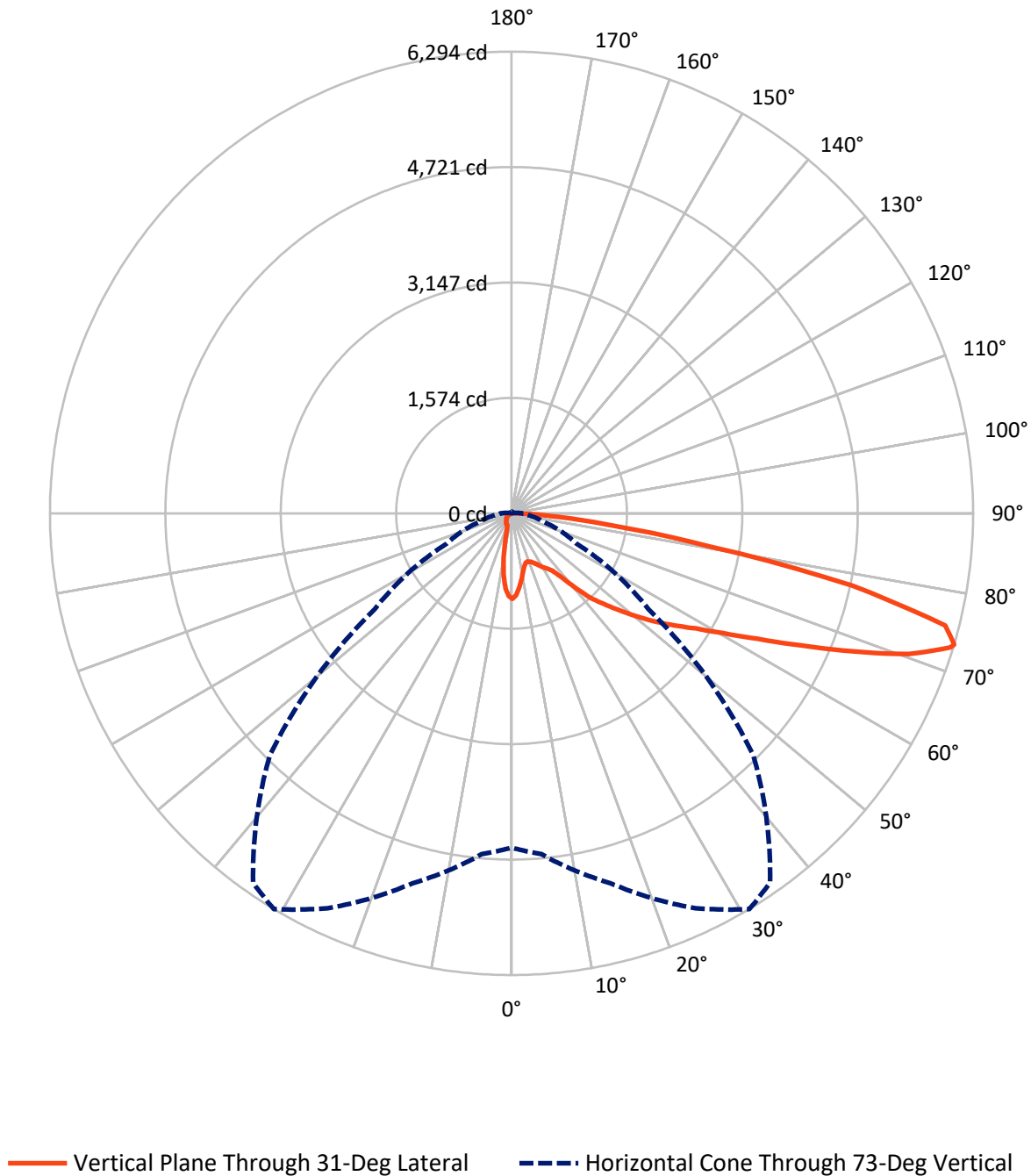
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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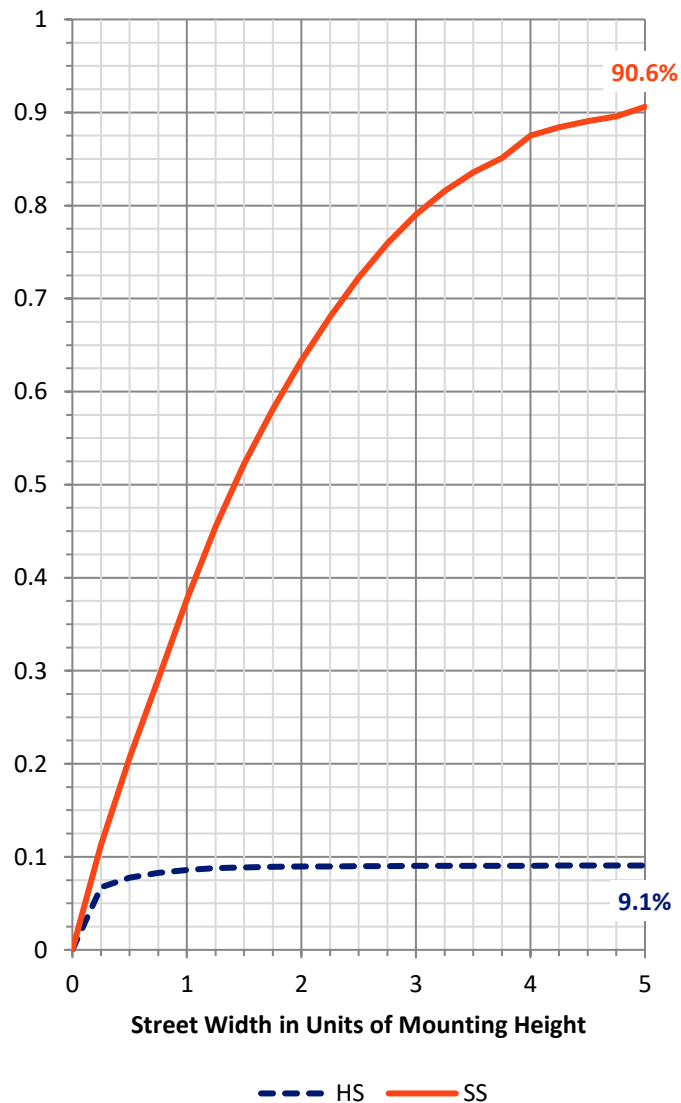
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	617.2	0.0	617.2
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	6153.8	0.0	6153.8
	% Fixture	90.9	0.0	90.9
Total	Lumens	6771.0	0.0	6771.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.6	1.4
10°-20°	209.7	3.1
20°-30°	314.2	4.6
30°-40°	499.9	7.4
40°-50°	892.8	13.2
50°-60°	1385.3	20.5
60°-70°	1841.6	27.2
70°-80°	1385.3	20.5
80°-90°	145.6	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°	6771.0	100.0
0°-180°	6771.0	100.0

Coefficient of Utilization



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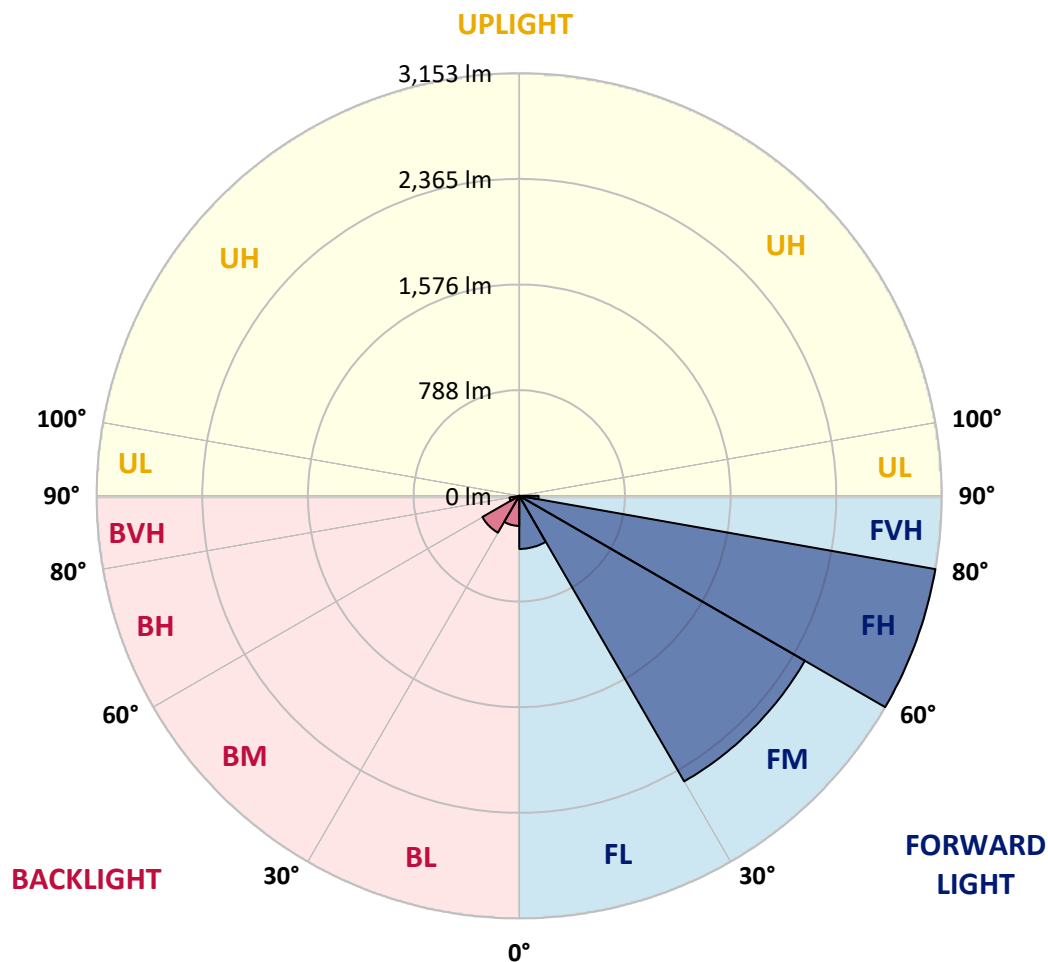
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	396.1	5.9			
FM	(30°-60°)	2460.3	36.3			
FH	(60°-80°)	3153.0	46.6			G2/5000
FVH	(80°-90°)	144.3	2.1			G2/225
BL	(0°-30°)	224.4	3.3	B1/500		
BM	(30°-60°)	317.7	4.7	B1/1000		
BH	(60°-80°)	73.8	1.1	B0/110		G0/110
BVH	(80°-90°)	1.2	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°	1165.0	1165.0	1165.0	1165.0	1165.0	1165.0	1165.0	1165.0	1165.0	1165.0	1165.0
2.5°	1104.0	1108.6	1113.6	1114.6	1122.9	1123.2	1135.1	1144.1	1153.0	1161.7	1164.6
5°	990.7	998.3	1007.3	1016.2	1033.8	1040.7	1069.9	1099.7	1128.2	1155.4	1168.6
7.5°	869.7	878.4	891.0	913.2	932.7	946.3	992.3	1045.4	1098.4	1148.4	1177.2
10°	759.4	767.4	780.6	804.1	834.3	852.8	914.8	988.4	1066.2	1142.1	1190.1
12.5°	689.2	693.5	700.8	725.9	753.1	774.0	846.9	938.0	1039.7	1141.8	1211.0
15°	676.2	677.6	671.6	682.9	704.1	724.3	798.2	897.2	1019.5	1147.1	1238.2
17.5°	696.8	696.1	676.2	674.9	691.8	708.4	774.3	869.1	1005.3	1159.3	1273.3
20°	727.9	725.6	691.2	684.9	702.8	718.3	772.7	858.5	1000.0	1179.9	1316.1
22.5°	769.4	765.4	711.4	704.7	724.0	740.2	793.2	868.8	1004.6	1207.4	1365.8
25°	820.7	814.7	746.2	738.9	758.4	774.7	830.0	898.2	1018.5	1240.8	1428.7
27.5°	878.7	870.1	801.8	782.9	805.1	822.0	879.0	943.3	1040.4	1276.3	1505.9
30°	933.4	922.1	860.5	829.3	856.5	875.4	932.0	997.0	1075.5	1331.0	1611.6
32.5°	988.4	975.8	912.8	875.7	900.2	920.8	986.7	1070.9	1141.4	1414.5	1752.1
35°	1114.9	1101.7	1024.5	963.2	962.9	974.4	1063.2	1171.9	1228.6	1530.8	1919.7
37.5°	1328.0	1320.4	1246.8	1130.5	1099.4	1086.4	1167.6	1292.5	1353.8	1690.8	2108.9
40°	1561.2	1554.6	1472.1	1366.7	1319.4	1287.6	1317.4	1460.5	1530.8	1886.3	2302.1
42.5°	1824.6	1793.2	1646.1	1614.6	1572.2	1548.0	1521.1	1667.6	1748.1	2099.0	2493.6
45°	2063.9	2010.9	1820.0	1772.3	1762.7	1768.7	1783.6	1945.9	1992.6	2351.8	2684.5
47.5°	2206.3	2164.6	2018.1	1972.4	1969.8	2009.2	2121.9	2260.3	2236.2	2572.1	2852.4
50°	2341.9	2304.1	2182.5	2193.8	2206.0	2259.7	2505.9	2583.7	2458.5	2771.9	3006.5
52.5°	2451.5	2393.9	2330.3	2393.5	2453.8	2540.3	2902.1	2874.0	2616.2	2931.0	3138.4
55°	2514.8	2488.6	2519.5	2583.1	2696.4	2836.9	3276.2	3115.5	2731.5	3076.1	3226.2
57.5°	2746.7	2695.4	2756.7	2811.7	2959.5	3155.9	3596.6	3295.4	2814.7	3165.9	3246.4
60°	3027.4	2986.0	3022.1	3113.5	3313.0	3543.9	3896.1	3442.2	2858.1	3223.5	3194.0
62.5°	3474.0	3419.3	3396.8	3499.2	3763.6	4015.7	4123.4	3543.9	2848.5	3198.0	3014.5
65°	4072.4	4015.7	3915.0	4007.8	4344.1	4522.0	4377.6	3565.5	2782.2	2991.6	2560.5
67.5°	4685.4	4644.3	4558.1	4714.5	5018.0	5075.3	4646.3	3513.1	2568.8	2425.7	1809.1
70°	5090.3	5072.7	5128.7	5474.6	5745.3	5728.7	4892.8	3231.8	2002.2	1491.7	894.9
72.5°	4798.4	4882.5	5296.0	5923.2	6253.9	6118.7	4766.2	2481.7	1144.4	573.9	258.8
73°	4556.5	4664.2	5220.8	5940.1	6294.0	6145.9	4659.9	2277.9	975.4	452.9	196.1
75°	3169.9	3302.1	4322.2	5532.3	6106.5	5855.6	3884.2	1394.2	451.9	200.8	79.2
77.5°	1539.0	1636.8	2380.0	3997.2	4749.0	4575.0	2418.1	519.5	204.1	125.6	36.4
80°	574.5	638.8	1033.1	2034.4	2744.4	2816.3	1063.6	196.5	135.8	101.1	18.6
82.5°	150.4	167.7	381.0	907.2	1406.5	1472.1	335.3	99.1	99.4	83.2	11.3
85°	48.0	55.0	118.9	407.2	662.7	581.8	87.5	48.0	72.2	62.0	6.3
87.5°	6.0	7.6	37.8	95.8	146.1	81.2	13.6	14.2	30.8	34.5	3.6
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°	1165.0	1165.0	1165.0	1165.0	1165.0	1165.0	1165.0	1165.0	1165.0	1165.0	1165.0
2.5°	1167.6	1166.0	1166.3	1157.7	1152.0	1140.8	1129.2	1123.9	1118.2	1115.9	1118.2
5°	1173.6	1170.6	1162.0	1135.5	1107.3	1070.9	1036.7	1010.9	978.4	969.5	978.8
7.5°	1182.9	1176.9	1151.7	1097.7	1035.1	965.5	887.3	830.3	783.6	753.4	764.4
10°	1196.4	1185.2	1134.5	1042.7	930.7	807.5	696.5	610.0	548.7	523.5	522.5
12.5°	1219.3	1198.1	1113.3	971.1	803.1	638.8	493.4	399.6	349.9	317.7	317.1
15°	1244.5	1213.3	1086.4	885.3	654.7	457.6	317.7	246.5	214.4	204.1	202.8
17.5°	1275.3	1230.9	1051.6	779.6	499.3	303.2	207.4	186.9	185.5	184.6	184.6
20°	1314.1	1251.8	1006.9	658.7	354.2	202.4	176.3	177.6	178.3	176.9	177.3
22.5°	1359.1	1273.0	953.6	528.8	239.6	169.3	168.6	170.3	171.0	170.3	170.6
25°	1411.5	1297.5	888.6	392.6	173.0	160.7	162.4	164.7	166.3	166.3	166.3
27.5°	1476.4	1327.3	810.4	274.0	149.4	151.8	156.4	160.7	163.0	163.7	163.7
30°	1560.9	1364.4	716.7	187.9	135.8	139.8	148.4	156.7	161.0	161.7	162.0
32.5°	1667.6	1406.2	608.0	138.8	124.2	127.2	136.5	150.4	158.7	160.0	160.0
35°	1789.9	1454.5	491.0	120.9	116.0	117.0	124.2	140.2	154.7	158.4	158.7
37.5°	1923.7	1502.3	373.4	113.0	109.0	109.0	114.3	127.9	145.1	156.4	157.7
40°	2048.6	1531.1	261.8	106.7	102.7	102.7	107.4	117.3	133.5	150.4	154.1
42.5°	2163.9	1541.0	182.2	100.7	96.7	97.7	101.7	109.7	121.9	138.8	142.1
45°	2282.5	1539.4	132.9	93.8	90.8	93.8	96.7	102.7	111.7	121.3	121.9
47.5°	2372.0	1525.5	105.4	87.1	85.2	89.1	91.8	95.8	100.7	100.1	100.1
50°	2455.8	1491.7	84.8	78.2	79.5	84.2	85.5	86.8	87.1	80.8	80.2
52.5°	2519.5	1439.0	67.9	68.6	73.9	78.5	77.2	75.2	71.9	64.3	63.0
55°	2540.7	1337.6	53.3	56.7	65.6	71.6	66.6	62.3	56.0	49.7	48.4
57.5°	2502.2	1206.7	43.4	44.1	55.3	60.3	54.7	49.7	42.7	37.4	36.4
60°	2420.7	1061.3	35.8	33.1	42.7	47.0	43.4	38.4	32.1	28.2	27.8
62.5°	2259.0	906.2	29.5	25.8	32.5	36.1	33.8	30.2	24.8	22.2	21.9
65°	1919.1	725.0	23.9	20.9	25.2	28.2	26.2	23.5	19.5	17.6	17.2
67.5°	1339.6	490.0	19.5	17.2	19.9	22.2	20.5	19.2	15.6	15.2	15.6
70°	646.1	236.2	16.2	13.9	15.6	17.2	16.6	15.6	14.9	17.2	19.9
72.5°	185.2	79.2	12.9	11.6	12.6	13.6	14.2	13.9	16.2	20.9	24.2
73°	142.5	63.9	12.3	10.9	11.9	13.3	13.9	13.6	16.6	21.2	24.2
75°	61.0	30.8	9.3	8.9	9.9	11.6	12.3	12.3	16.6	21.5	23.2
77.5°	27.5	16.6	6.0	7.0	8.6	9.3	10.3	10.3	13.3	16.6	16.6
80°	15.6	8.9	4.6	5.3	6.3	6.3	6.3	5.6	6.0	6.6	7.3
82.5°	9.9	6.0	3.6	4.3	4.0	3.3	2.7	2.7	2.3	2.7	3.3
85°	5.6	3.3	3.3	2.7	1.7	1.3	1.7	1.3	0.3	0.0	0.3
87.5°	3.3	2.0	1.0	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)