

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: P322476

Luminaire Tested: **GAN-SA2B-727-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322476
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-SA2B-727-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 800mA 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: 6945 lumens
Efficiency: N/A
Efficacy: 81.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

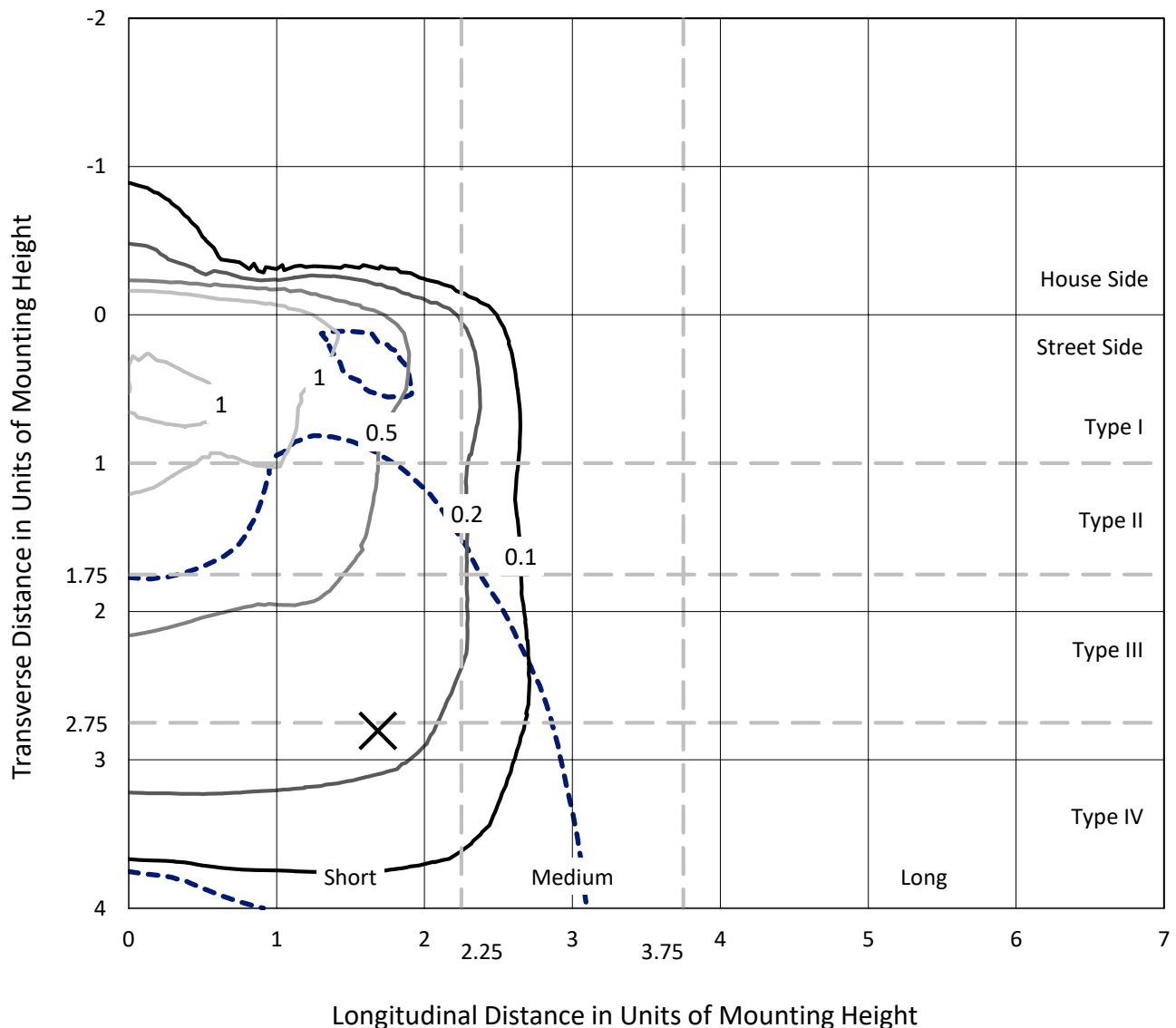
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

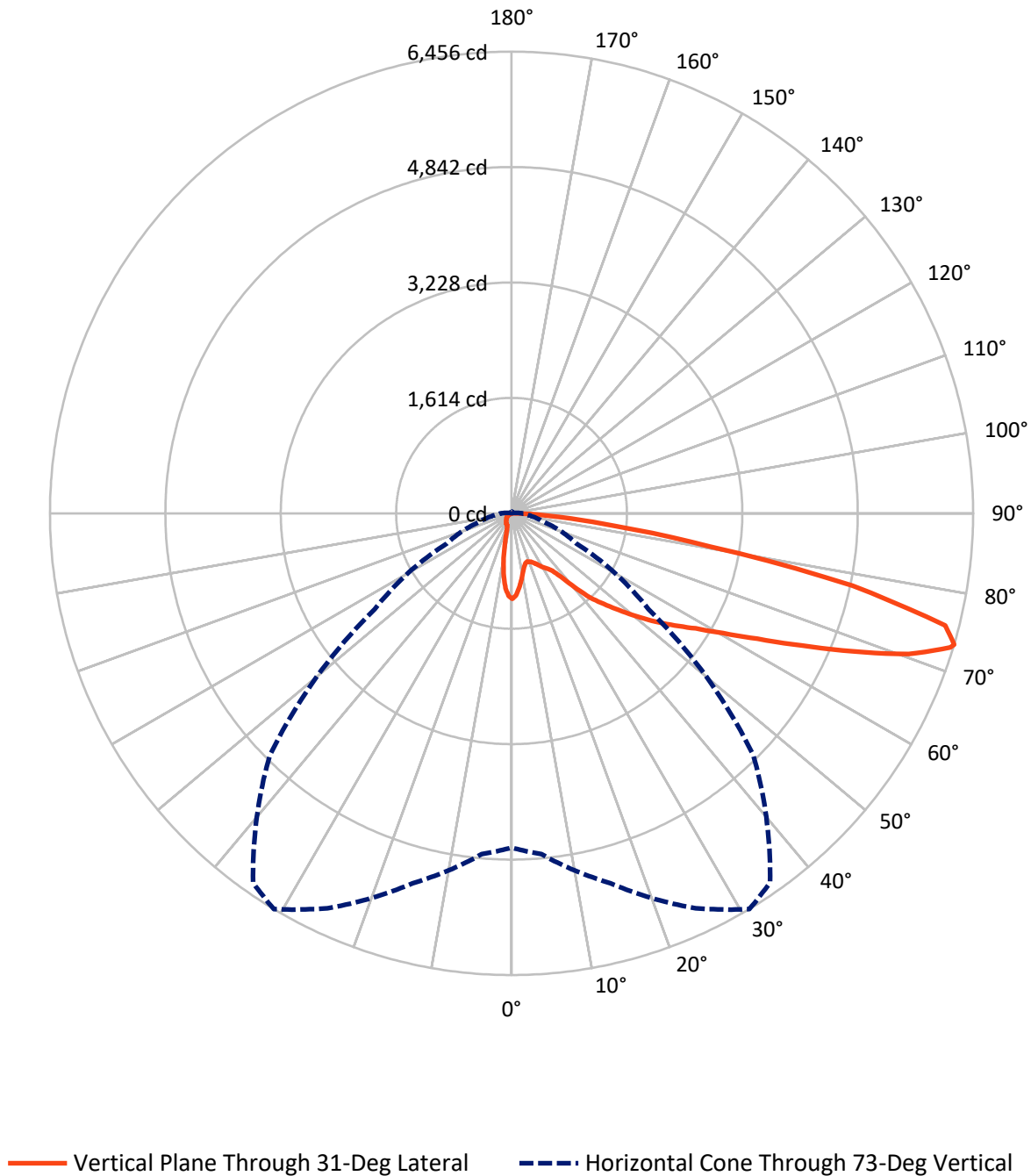
× Max cd
 - - - 1/2 Max cd



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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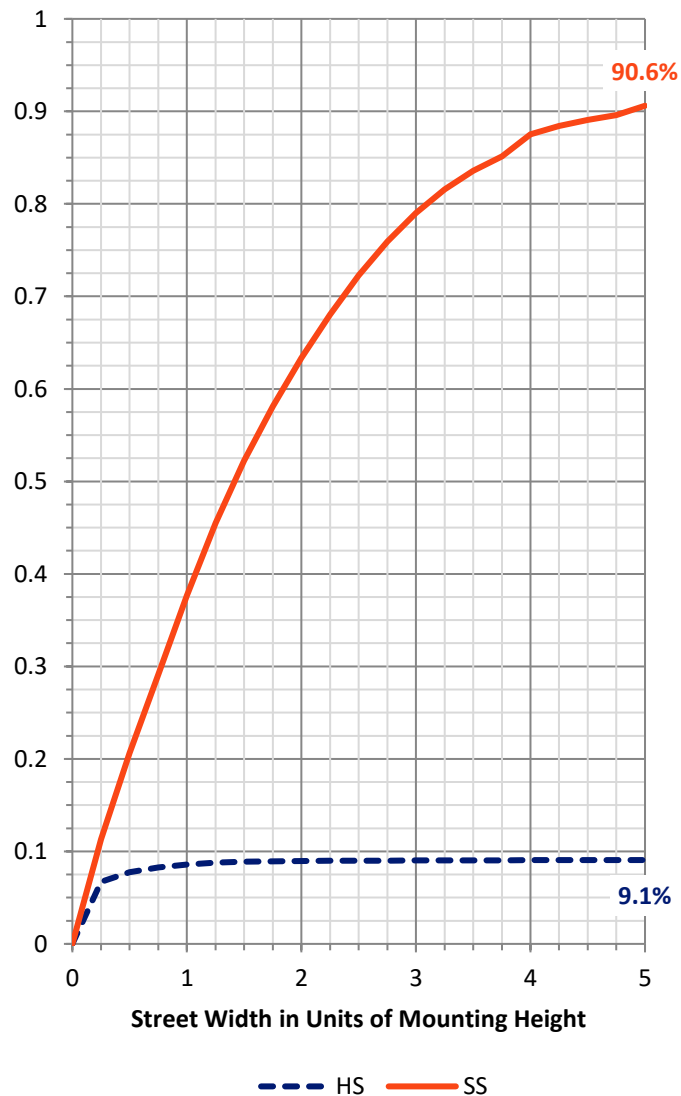
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	633.1	0.0	633.1
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	6311.9	0.0	6311.9
	% Fixture	90.9	0.0	90.9
Total	Lumens	6945.0	0.0	6945.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.1	1.4
10°-20°	215.1	3.1
20°-30°	322.3	4.6
30°-40°	512.8	7.4
40°-50°	915.7	13.2
50°-60°	1420.9	20.5
60°-70°	1888.9	27.2
70°-80°	1420.9	20.5
80°-90°	149.3	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°	6945.0	100.0
0°-180°	6945.0	100.0

Coefficient of Utilization



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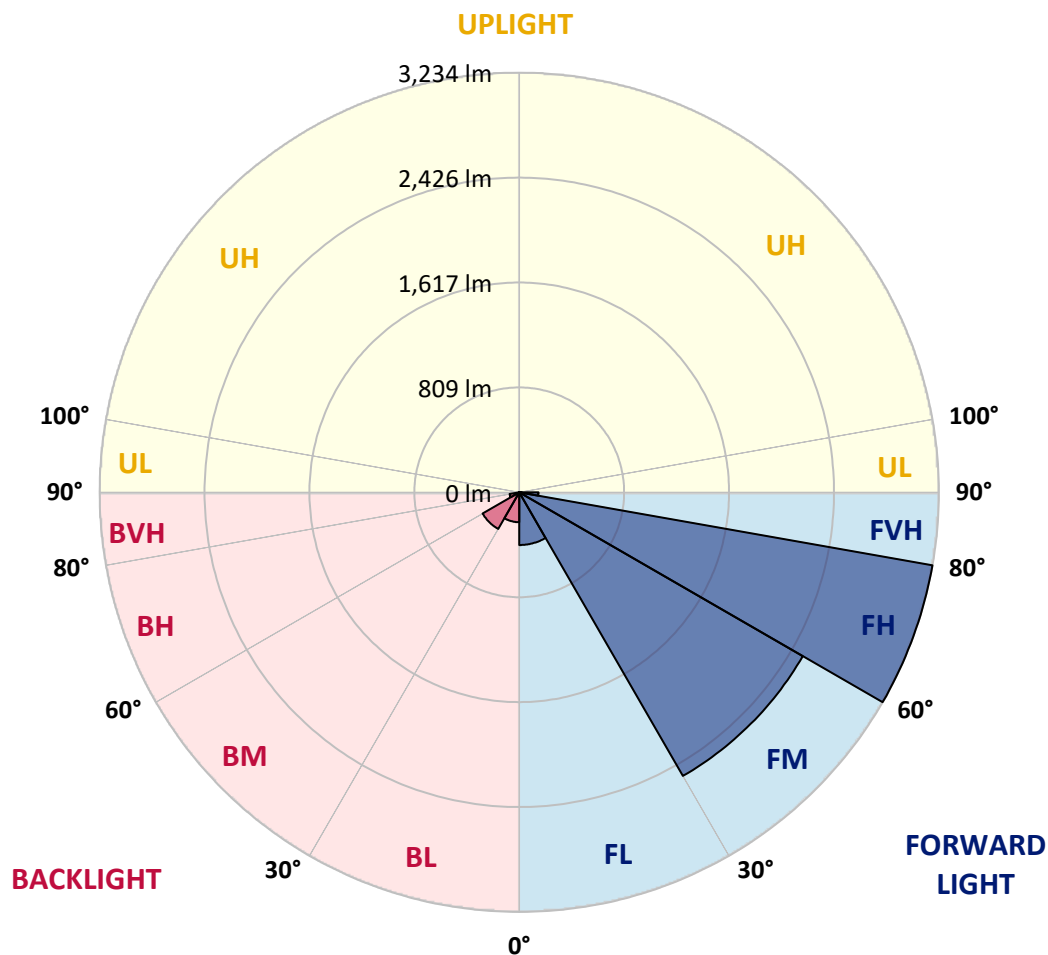
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	406.3	5.9			
FM	(30°-60°)	2523.6	36.3			
FH	(60°-80°)	3234.0	46.6			G2/5000
FVH	(80°-90°)	148.0	2.1			G2/225
BL	(0°-30°)	230.2	3.3	B1/500		
BM	(30°-60°)	325.9	4.7	B1/1000		
BH	(60°-80°)	75.7	1.1	B0/110		G0/110
BVH	(80°-90°)	1.3	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°	1194.9	1194.9	1194.9	1194.9	1194.9	1194.9	1194.9	1194.9	1194.9	1194.9	1194.9
2.5°	1132.4	1137.1	1142.2	1143.2	1151.7	1152.1	1164.3	1173.5	1182.7	1191.5	1194.6
5°	1016.1	1024.0	1033.1	1042.3	1060.3	1067.5	1097.4	1128.0	1157.2	1185.0	1198.6
7.5°	892.1	900.9	913.8	936.6	956.7	970.6	1017.8	1072.2	1126.6	1177.9	1207.5
10°	778.9	787.1	800.7	824.8	855.7	874.8	938.3	1013.8	1093.6	1171.5	1220.7
12.5°	706.9	711.3	718.8	744.6	772.5	793.9	868.6	962.1	1066.4	1171.1	1242.1
15°	693.6	695.0	688.9	700.4	722.2	742.9	818.7	920.3	1045.7	1176.5	1270.0
17.5°	714.7	714.0	693.6	692.3	709.6	726.6	794.2	891.4	1031.1	1189.1	1306.0
20°	746.6	744.3	708.9	702.5	720.8	736.8	792.5	880.5	1025.7	1210.2	1349.9
22.5°	789.1	785.0	729.7	722.9	742.6	759.2	813.6	891.1	1030.4	1238.4	1400.8
25°	841.8	835.7	765.3	757.9	777.9	794.6	851.3	921.3	1044.7	1272.7	1465.4
27.5°	901.3	892.4	822.4	803.1	825.8	843.2	901.6	967.5	1067.1	1309.1	1544.6
30°	957.3	945.8	882.6	850.6	878.5	897.9	956.0	1022.6	1103.1	1365.2	1653.0
32.5°	1013.8	1000.8	936.3	898.2	923.4	944.4	1012.1	1098.4	1170.8	1450.8	1797.1
35°	1143.6	1130.0	1050.8	987.9	987.6	999.5	1090.6	1202.0	1260.2	1570.1	1969.1
37.5°	1362.1	1354.3	1278.8	1159.6	1127.6	1114.4	1197.6	1325.7	1388.6	1734.2	2163.1
40°	1601.4	1594.6	1509.9	1401.9	1353.3	1320.6	1351.2	1498.0	1570.1	1934.7	2361.3
42.5°	1871.5	1839.3	1688.4	1656.1	1612.6	1587.8	1560.2	1710.4	1793.0	2152.9	2557.7
45°	2116.9	2062.5	1866.8	1817.8	1808.0	1814.1	1829.4	1995.9	2043.8	2412.2	2753.4
47.5°	2263.0	2220.2	2070.0	2023.1	2020.4	2060.8	2176.4	2318.4	2293.6	2638.2	2925.7
50°	2402.0	2363.3	2238.6	2250.1	2262.7	2317.8	2570.3	2650.1	2521.7	2843.2	3083.8
52.5°	2514.5	2455.4	2390.1	2455.1	2516.9	2605.6	2976.7	2947.8	2683.4	3006.3	3219.0
55°	2579.4	2552.6	2584.2	2649.4	2765.7	2909.8	3360.4	3195.6	2801.7	3155.1	3309.1
57.5°	2817.3	2764.7	2827.5	2883.9	3035.5	3237.0	3689.0	3380.1	2887.0	3247.2	3329.8
60°	3105.2	3062.7	3099.7	3193.5	3398.1	3635.0	3996.3	3530.7	2931.5	3306.4	3276.1
62.5°	3563.3	3507.2	3484.1	3589.1	3860.3	4118.9	4229.4	3635.0	2921.7	3280.2	3091.9
65°	4177.1	4118.9	4015.6	4110.8	4455.7	4638.2	4490.1	3657.1	2853.7	3068.5	2626.3
67.5°	4805.8	4763.6	4675.3	4835.7	5147.0	5205.8	4765.7	3603.4	2634.8	2488.0	1855.6
70°	5221.1	5203.1	5260.5	5615.3	5892.9	5876.0	5018.5	3314.9	2053.7	1530.0	917.9
72.5°	4921.7	5008.0	5432.1	6075.4	6414.6	6276.0	4888.7	2545.5	1173.8	588.6	265.4
73°	4673.6	4784.0	5355.0	6092.8	6455.7	6303.8	4779.6	2336.4	1000.5	464.6	201.2
75°	3251.3	3386.9	4433.3	5674.4	6263.4	6006.1	3984.0	1430.1	463.6	205.9	81.2
77.5°	1578.6	1678.8	2441.1	4099.9	4871.0	4692.6	2480.2	532.9	209.3	128.8	37.4
80°	589.3	655.2	1059.6	2086.7	2815.0	2888.7	1090.9	201.5	139.3	103.7	19.0
82.5°	154.3	172.0	390.8	930.5	1442.6	1509.9	343.9	101.6	102.0	85.3	11.6
85°	49.3	56.4	122.0	417.7	679.7	596.8	89.7	49.3	74.1	63.6	6.5
87.5°	6.1	7.8	38.7	98.2	149.9	83.3	13.9	14.6	31.6	35.3	3.7
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°	1194.9	1194.9	1194.9	1194.9	1194.9	1194.9	1194.9	1194.9	1194.9	1194.9	1194.9
2.5°	1197.6	1195.9	1196.3	1187.4	1181.6	1170.1	1158.2	1152.8	1147.0	1144.6	1147.0
5°	1203.7	1200.7	1191.8	1164.7	1135.8	1098.4	1063.4	1036.9	1003.6	994.4	1003.9
7.5°	1213.3	1207.1	1181.3	1125.9	1061.7	990.3	910.1	851.7	803.7	772.8	784.0
10°	1227.2	1215.6	1163.6	1069.5	954.6	828.2	714.4	625.7	562.8	537.0	535.9
12.5°	1250.6	1228.9	1141.9	996.1	823.8	655.2	506.0	409.9	358.9	325.9	325.2
15°	1276.5	1244.5	1114.4	908.1	671.5	469.3	325.9	252.8	219.9	209.3	208.0
17.5°	1308.1	1262.5	1078.7	799.7	512.1	311.0	212.7	191.7	190.3	189.3	189.3
20°	1347.8	1283.9	1032.8	675.6	363.3	207.6	180.8	182.2	182.8	181.5	181.8
22.5°	1394.1	1305.7	978.1	542.4	245.7	173.7	173.0	174.7	175.4	174.7	175.0
25°	1447.7	1330.8	911.5	402.7	177.4	164.8	166.5	168.9	170.6	170.6	170.6
27.5°	1514.4	1361.4	831.3	281.1	153.3	155.6	160.4	164.8	167.2	167.9	167.9
30°	1601.0	1399.5	735.1	192.7	139.3	143.4	152.3	160.7	165.2	165.8	166.2
32.5°	1710.4	1442.3	623.6	142.4	127.4	130.5	140.0	154.3	162.8	164.1	164.1
35°	1835.9	1491.9	503.7	124.0	118.9	120.0	127.4	143.8	158.7	162.4	162.8
37.5°	1973.2	1540.9	383.0	115.9	111.8	111.8	117.2	131.2	148.9	160.4	161.8
40°	2101.3	1570.4	268.5	109.4	105.4	105.4	110.1	120.3	137.0	154.3	158.0
42.5°	2219.5	1580.6	186.9	103.3	99.2	100.3	104.3	112.5	125.1	142.4	145.8
45°	2341.2	1578.9	136.3	96.2	93.1	96.2	99.2	105.4	114.5	124.4	125.1
47.5°	2433.0	1564.7	108.1	89.4	87.3	91.4	94.1	98.2	103.3	102.6	102.6
50°	2518.9	1530.0	87.0	80.2	81.6	86.3	87.7	89.0	89.4	82.9	82.2
52.5°	2584.2	1476.0	69.7	70.3	75.8	80.5	79.2	77.1	73.7	65.9	64.6
55°	2605.9	1372.0	54.7	58.1	67.3	73.4	68.3	63.9	57.4	51.0	49.6
57.5°	2566.5	1237.7	44.5	45.2	56.8	61.9	56.1	51.0	43.8	38.4	37.4
60°	2482.9	1088.5	36.7	34.0	43.8	48.3	44.5	39.4	33.0	28.9	28.5
62.5°	2317.1	929.5	30.2	26.5	33.3	37.0	34.7	30.9	25.5	22.8	22.4
65°	1968.4	743.6	24.5	21.4	25.8	28.9	26.8	24.1	20.1	18.0	17.7
67.5°	1374.0	502.6	20.1	17.7	20.4	22.8	21.1	19.7	16.0	15.6	16.0
70°	662.7	242.3	16.7	14.3	16.0	17.7	17.0	16.0	15.3	17.7	20.4
72.5°	190.0	81.2	13.3	11.9	12.9	13.9	14.6	14.3	16.7	21.4	24.8
73°	146.1	65.6	12.6	11.2	12.2	13.6	14.3	13.9	17.0	21.8	24.8
75°	62.5	31.6	9.5	9.2	10.2	11.9	12.6	12.6	17.0	22.1	23.8
77.5°	28.2	17.0	6.1	7.1	8.8	9.5	10.5	10.5	13.6	17.0	17.0
80°	16.0	9.2	4.8	5.4	6.5	6.5	6.5	5.8	6.1	6.8	7.5
82.5°	10.2	6.1	3.7	4.4	4.1	3.4	2.7	2.7	2.4	2.7	3.4
85°	5.8	3.4	3.4	2.7	1.7	1.4	1.7	1.4	0.3	0.0	0.3
87.5°	3.4	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)