

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: P321376

Luminaire Tested: **GAN-SA2D-760-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321376
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2D-760-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12814 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

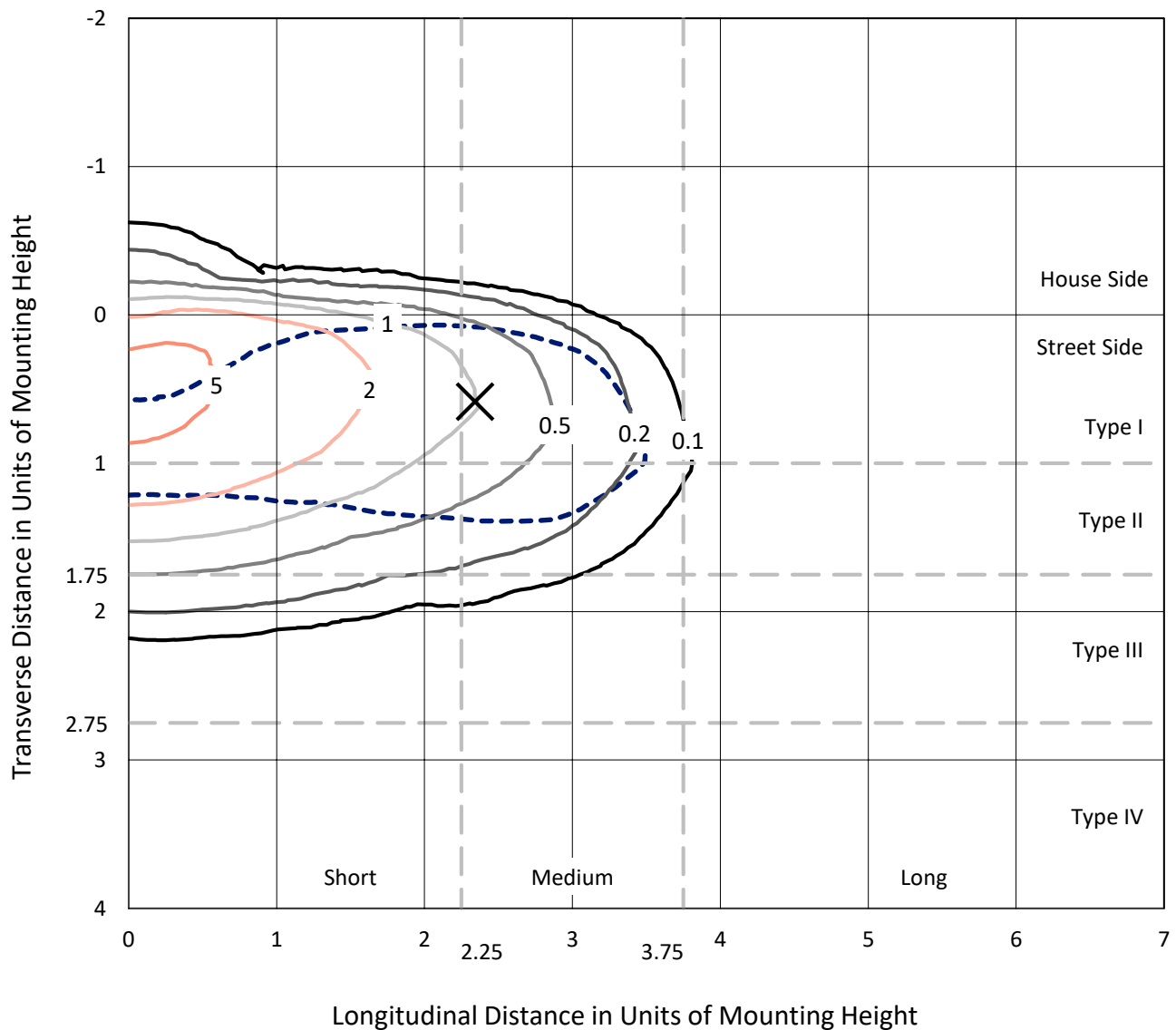
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

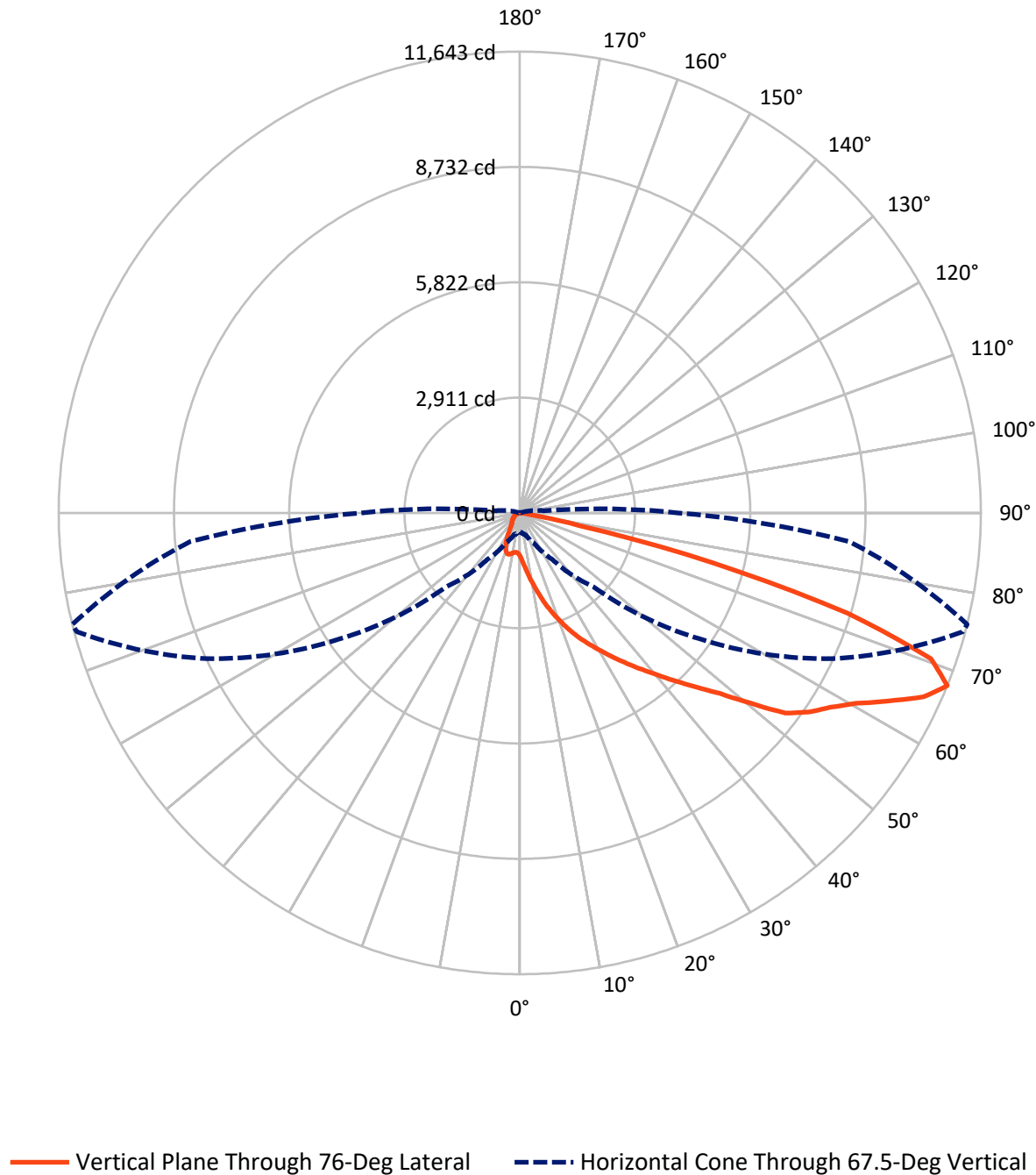
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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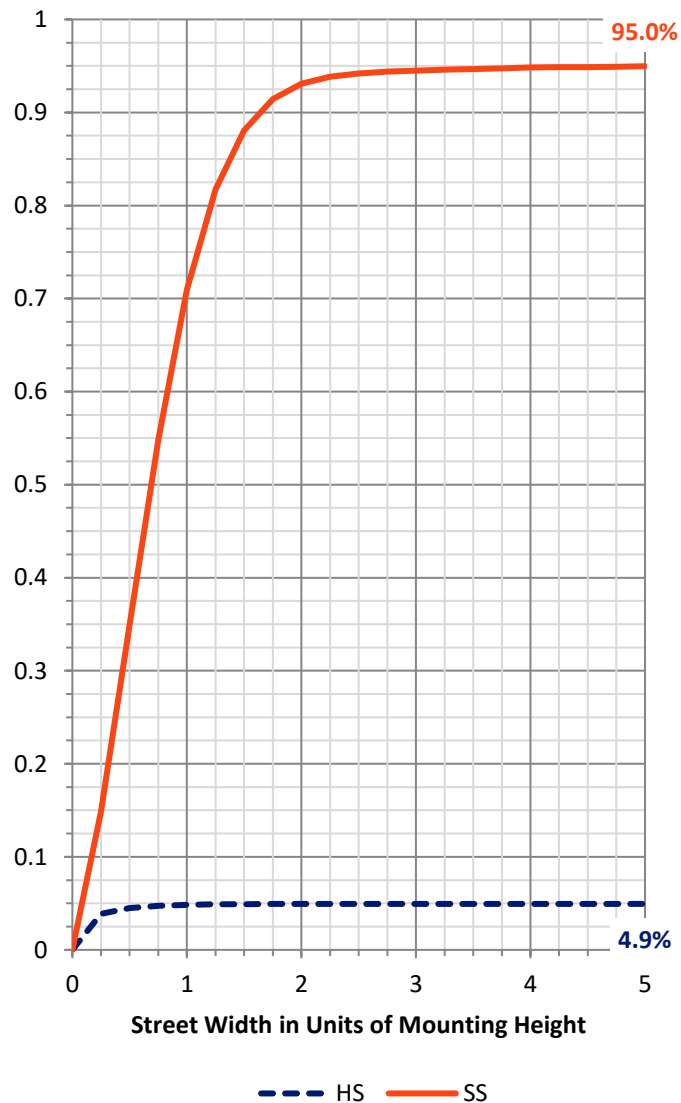
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	636.3	0.0	636.3
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	12177.7	0.0	12177.7
	% Fixture	95.0	0.0	95.0
Total	Lumens	12814.0	0.0	12814.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.2	1.1
10°-20°	535.8	4.2
20°-30°	1090.2	8.5
30°-40°	1892.3	14.8
40°-50°	2673.5	20.9
50°-60°	3031.9	23.7
60°-70°	2514.7	19.6
70°-80°	910.9	7.1
80°-90°	29.5	0.2
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°	12814.0	100.0
0°-180°	12814.0	100.0

Coefficient of Utilization



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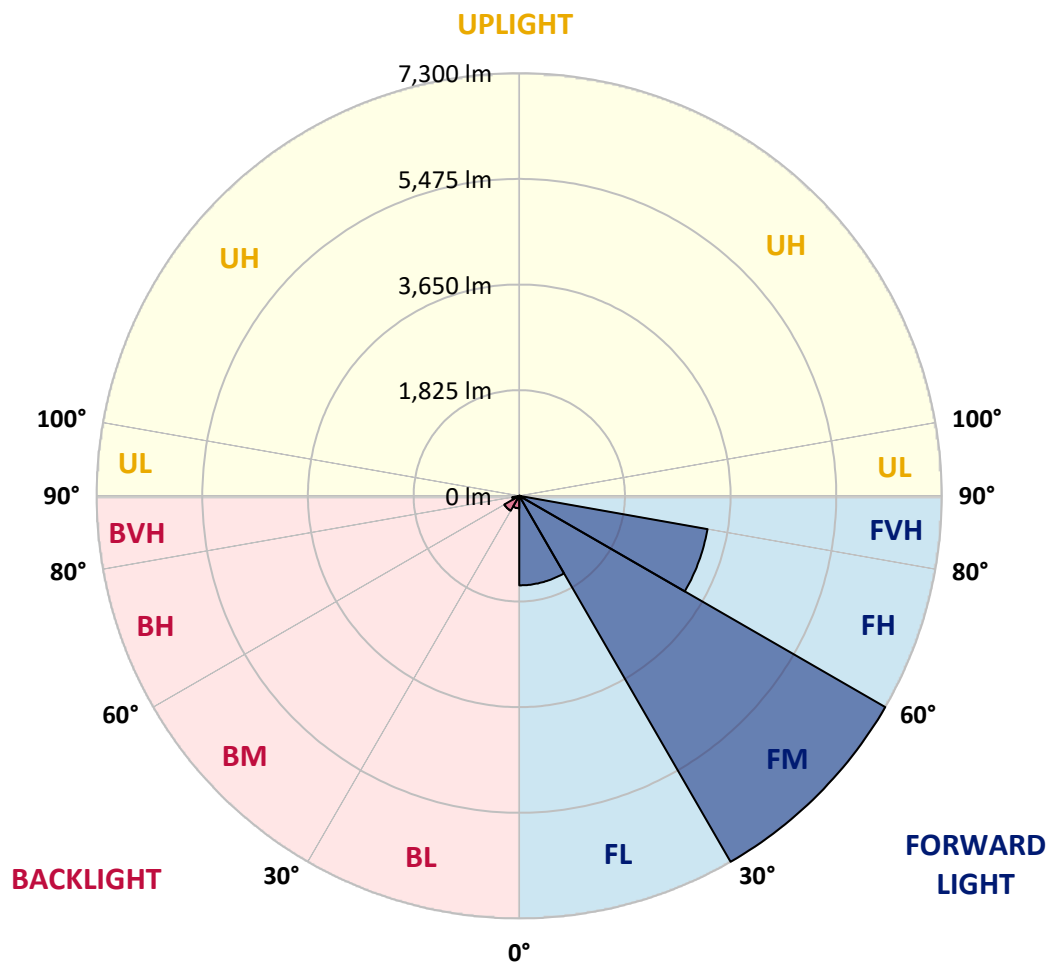
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1546.6	12.1			
FM	(30°-60°)	7299.9	57.0			
FH	(60°-80°)	3302.6	25.8			G2/5000
FVH	(80°-90°)	28.6	0.2			G1/100
BL	(0°-30°)	214.6	1.7	B1/500		
BM	(30°-60°)	297.8	2.3	B1/1000		
BH	(60°-80°)	123.0	1.0	B1/500		G1/500
BVH	(80°-90°)	0.9	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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1087.0	1087.0	1087.0	1087.0	1087.0	1087.0	1087.0	1087.0	1087.0	1087.0	1087.0
2.5°	1622.6	1586.1	1594.6	1571.0	1528.3	1440.7	1366.0	1295.3	1212.8	1210.0	1142.0
5°	2188.0	2157.2	2153.2	2105.5	2028.0	1879.2	1734.4	1569.3	1385.1	1371.7	1227.4
7.5°	2701.2	2676.5	2667.5	2610.8	2466.5	2321.7	2133.0	1890.5	1602.4	1577.7	1342.5
10°	3095.4	3083.6	3085.8	3045.4	2921.9	2787.1	2539.5	2230.1	1848.9	1810.7	1480.6
12.5°	3394.1	3396.9	3417.1	3392.4	3323.3	3223.4	2958.9	2592.3	2121.8	2069.6	1638.4
15°	3613.6	3627.6	3664.7	3695.6	3690.5	3604.1	3361.5	2960.0	2411.5	2353.7	1814.1
17.5°	3755.6	3771.4	3825.3	3893.8	3956.7	3936.4	3750.0	3314.9	2704.6	2637.8	2002.2
20°	3880.3	3898.8	3956.7	4047.0	4164.4	4189.7	4067.3	3659.1	2997.1	2915.7	2196.5
22.5°	4150.4	4149.8	4185.2	4237.9	4349.7	4414.8	4337.3	3978.5	3286.3	3201.5	2394.7
25°	4638.8	4620.3	4608.0	4566.4	4591.1	4631.5	4588.3	4277.2	3577.1	3491.2	2595.7
27.5°	5219.4	5230.6	5130.7	5018.9	4932.5	4890.9	4820.2	4554.1	3856.7	3762.4	2792.2
30°	5831.9	5835.3	5717.4	5574.8	5384.5	5226.7	5104.3	4818.5	4144.2	4041.4	2983.1
32.5°	6384.4	6362.5	6245.7	6051.5	5811.2	5633.8	5379.4	5113.8	4448.5	4349.1	3195.3
35°	6822.4	6796.5	6654.5	6477.6	6228.3	6049.8	5743.8	5408.6	4768.5	4671.4	3408.1
37.5°	7142.4	7112.1	6966.1	6784.2	6569.2	6465.3	6166.6	5729.2	5117.8	5013.3	3632.1
40°	7253.6	7227.2	7135.7	7002.6	6829.7	6806.1	6615.2	6098.1	5497.9	5386.7	3885.9
42.5°	7187.3	7161.5	7128.9	7084.0	7012.1	7034.6	7038.5	6518.6	5920.1	5810.6	4166.1
45°	6924.6	6901.5	6935.2	7000.9	7090.2	7201.4	7424.8	6970.6	6391.7	6274.9	4490.0
47.5°	6537.7	6520.9	6614.1	6778.0	7039.1	7345.7	7778.0	7445.6	6921.2	6812.8	4894.3
50°	5987.5	5984.7	6171.1	6470.3	6871.8	7415.3	8142.9	7985.7	7656.7	7542.7	5456.3
52.5°	5130.7	5136.3	5502.9	5981.9	6578.1	7368.1	8377.6	8679.7	8512.4	8393.9	5943.1
55°	4314.9	4348.6	4608.5	5299.1	6127.8	7192.9	8458.5	9003.7	8984.6	8872.3	6213.7
57.5°	3515.9	3577.1	3827.5	4472.6	5470.4	6789.2	8414.1	9144.0	9336.1	9250.2	6570.8
60°	2650.1	2678.2	2966.8	3569.8	4626.5	6052.6	8092.4	9220.4	9816.7	9757.2	7089.1
62.5°	1686.1	1756.3	2012.3	2594.0	3602.4	5029.6	7550.0	9219.3	10418.0	10450.6	7757.8
65°	888.2	970.2	1106.1	1607.5	2475.5	3887.0	6734.2	9132.8	11155.8	11201.2	8280.5
67.5°	478.9	502.5	574.4	834.3	1435.7	2633.3	5535.5	8706.1	11583.0	11643.1	8353.5
70°	350.4	363.3	390.2	461.5	722.6	1529.4	4039.2	7738.7	11032.2	11009.8	7422.0
72.5°	268.9	289.2	309.4	338.0	415.5	816.4	2514.8	6059.9	8802.7	8654.4	5547.8
75°	212.2	215.6	244.2	270.1	311.6	464.9	1116.8	3529.4	5372.7	5021.8	2877.0
77.5°	169.6	171.8	188.7	211.1	250.4	305.4	345.9	1388.5	1715.3	1530.6	624.4
80°	100.5	106.1	140.4	162.8	207.7	192.6	126.3	301.5	267.8	242.6	105.0
82.5°	56.1	60.6	79.2	128.6	144.9	92.1	62.9	81.4	62.9	61.2	29.8
85°	0.0	2.8	51.1	79.7	59.0	20.2	26.4	27.0	18.5	17.4	11.8
87.5°	0.0	0.0	15.7	15.2	2.2	3.4	6.2	9.0	7.3	7.3	6.2
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°	1087.0	1087.0	1087.0	1087.0	1087.0	1087.0	1087.0	1087.0	1087.0	1087.0	1087.0
2.5°	1108.3	1078.0	1020.7	964.6	917.4	878.7	843.9	829.8	818.6	816.9	807.9
5°	1157.7	1096.5	987.1	897.2	837.1	794.5	758.0	735.5	718.1	711.4	705.2
7.5°	1232.4	1139.8	982.6	879.3	807.4	735.5	668.1	595.2	549.7	532.3	522.2
10°	1323.4	1197.0	999.4	874.2	748.4	596.8	485.1	392.5	354.8	342.5	339.1
12.5°	1429.5	1268.4	1028.6	842.8	622.7	423.9	334.6	303.2	294.8	290.8	290.8
15°	1551.3	1346.4	1049.4	751.8	460.4	320.6	289.7	275.1	266.1	261.1	261.6
17.5°	1676.0	1422.8	1039.3	619.9	339.7	285.2	262.2	246.5	234.1	229.1	228.0
20°	1801.7	1493.5	983.1	461.5	287.5	258.8	233.0	215.6	203.3	198.2	197.1
22.5°	1932.0	1553.6	884.3	338.6	258.3	229.6	204.4	187.0	175.2	170.7	168.4
25°	2058.9	1602.4	746.2	274.0	230.8	202.1	178.0	161.7	151.0	146.5	146.0
27.5°	2177.4	1633.3	586.2	242.0	206.6	177.4	155.5	140.9	131.9	128.6	128.0
30°	2284.0	1636.1	433.5	218.4	185.3	156.1	135.9	123.0	115.1	111.7	110.6
32.5°	2391.8	1612.5	315.5	197.1	165.6	137.6	117.9	107.8	102.2	99.4	99.4
35°	2493.5	1558.1	245.9	178.5	146.5	119.6	103.9	96.6	93.2	90.4	90.4
37.5°	2592.9	1480.0	208.9	162.3	128.6	104.4	91.5	87.0	84.2	81.4	81.4
40°	2693.9	1381.8	189.8	147.1	114.0	92.6	81.4	77.5	74.7	72.4	71.9
42.5°	2818.0	1268.4	177.4	133.1	101.1	82.0	71.9	67.4	65.1	62.9	61.8
45°	2961.7	1170.7	167.3	119.0	90.4	73.0	62.3	57.8	54.5	51.7	51.1
47.5°	3168.9	1099.9	153.8	103.9	80.3	63.4	53.9	48.8	43.8	41.0	40.4
50°	3433.4	1041.5	136.4	90.4	70.2	53.9	44.9	38.7	34.2	31.4	31.4
52.5°	3564.7	965.2	120.7	78.6	59.0	45.5	36.5	29.2	27.0	24.1	24.1
55°	3617.5	906.8	105.0	66.8	48.8	37.6	28.6	22.5	20.8	19.1	18.5
57.5°	3765.8	889.9	91.5	56.7	40.4	29.8	21.9	16.8	15.7	13.5	13.5
60°	4004.4	898.3	79.2	48.3	32.6	23.0	16.3	12.9	11.8	9.5	9.5
62.5°	4262.1	887.7	66.8	41.5	25.3	16.8	11.2	9.5	9.5	5.6	5.1
65°	4311.5	790.5	57.3	34.2	19.7	12.4	7.3	6.2	8.4	1.1	0.0
67.5°	4001.6	613.1	49.4	26.4	14.6	9.5	5.6	2.8	7.3	0.0	0.0
70°	3199.8	389.7	39.9	19.1	11.2	7.9	4.5	1.1	5.6	0.0	0.0
72.5°	2262.7	226.3	31.4	13.5	9.5	6.2	3.4	0.0	3.4	0.0	0.0
75°	1144.3	120.7	19.7	10.1	7.3	4.5	2.2	0.0	0.6	0.0	0.0
77.5°	247.6	56.1	12.4	7.3	5.1	2.8	1.1	0.0	0.0	0.0	0.0
80°	53.9	24.7	7.9	4.5	2.8	1.7	0.0	0.0	0.0	0.0	0.0
82.5°	19.7	12.9	3.9	2.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	10.7	6.7	2.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.6	2.2	0.6	0.6	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)