

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: P324903

Luminaire Tested: **GAN-SA9D-760-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324903
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9D-760-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 56784 lumens
Efficiency: N/A
Efficacy: 98.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

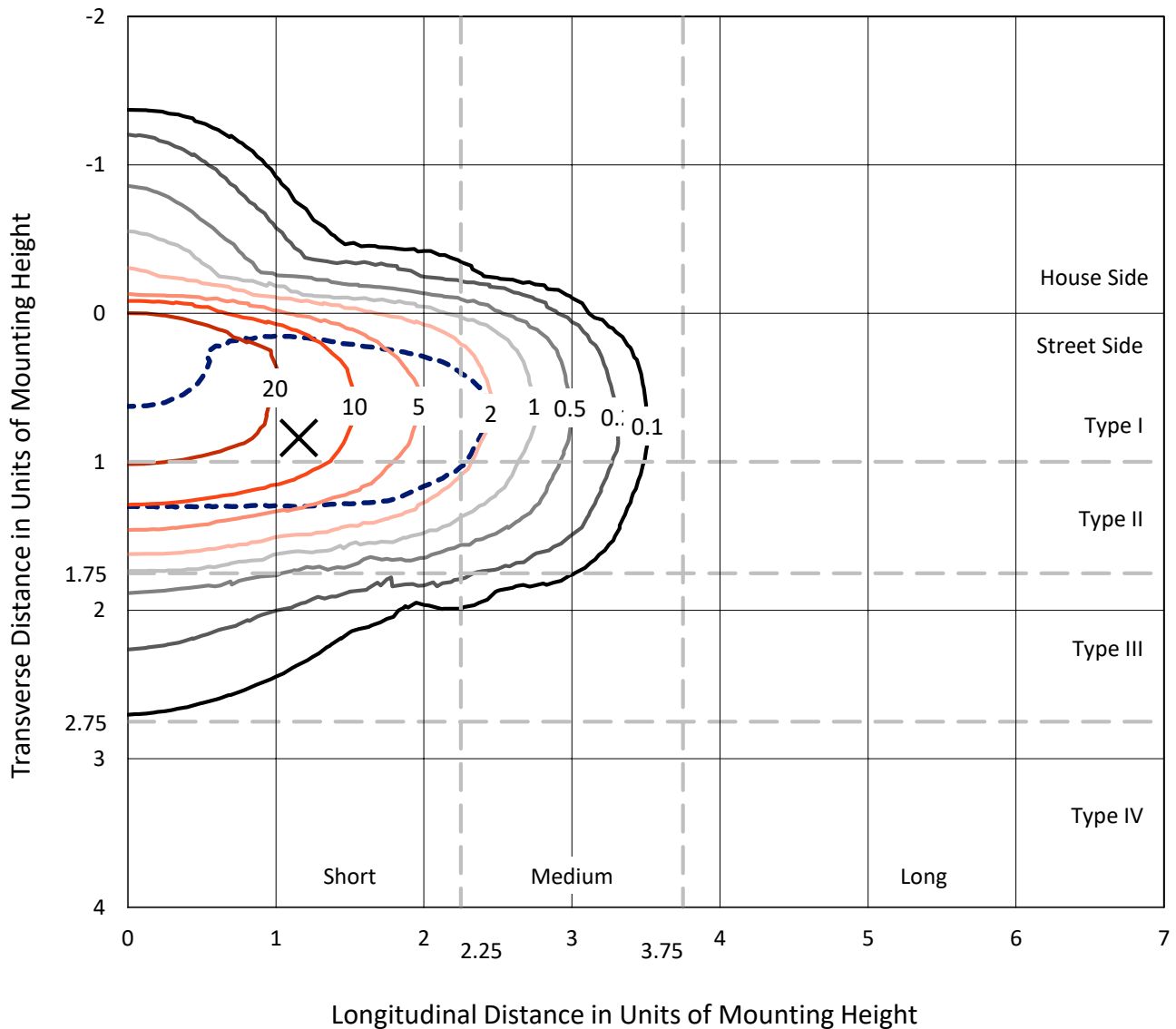
Input Watts (W): 575
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

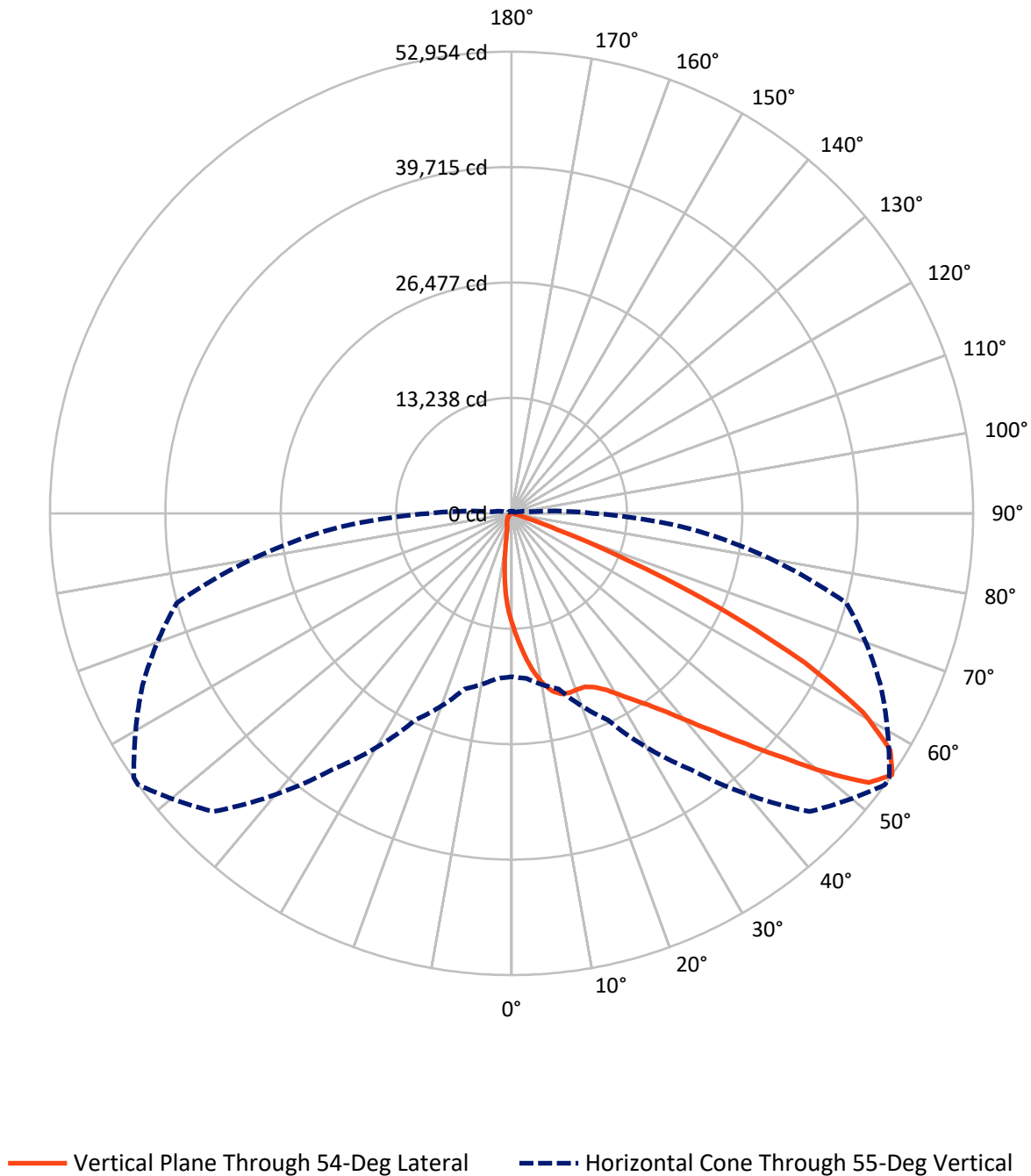
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 31.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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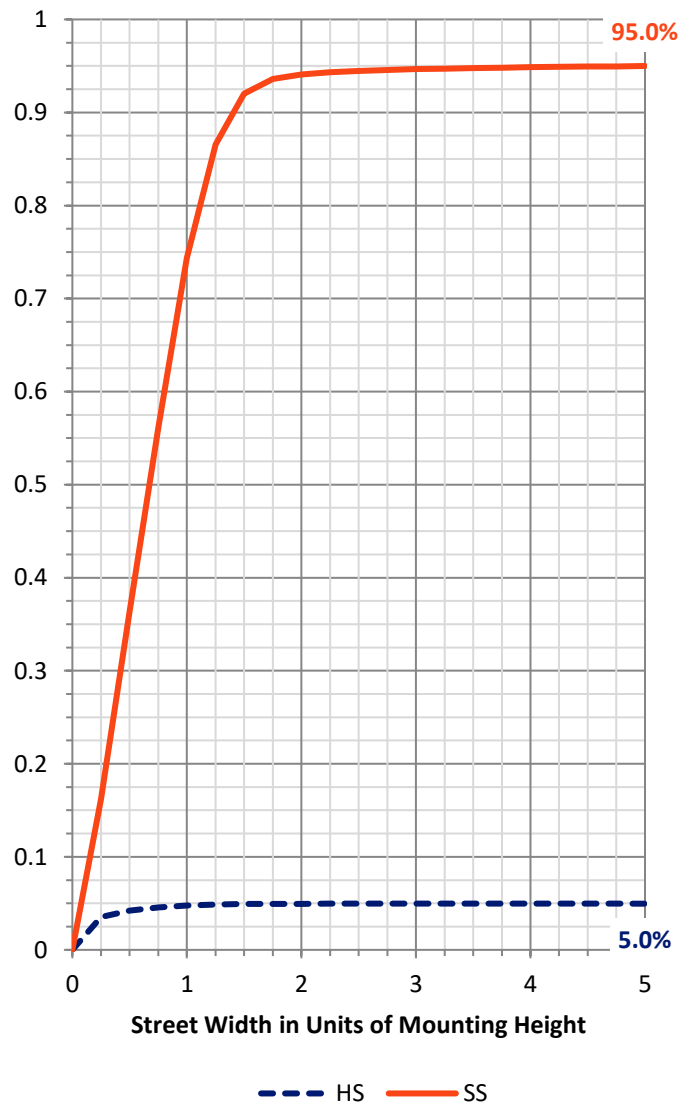
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2833.1	0.0	2833.1
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	53950.9	0.0	53950.9
	% Fixture	95.0	0.0	95.0
Total	Lumens	56784.0	0.0	56784.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1171.1	2.1
10°-20°	3211.9	5.7
20°-30°	5483.7	9.7
30°-40°	8800.4	15.5
40°-50°	14063.0	24.8
50°-60°	15068.9	26.5
60°-70°	7736.8	13.6
70°-80°	1171.9	2.1
80°-90°	76.3	0.1
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°	56784.0	100.0
0°-180°	56784.0	100.0

Coefficient of Utilization



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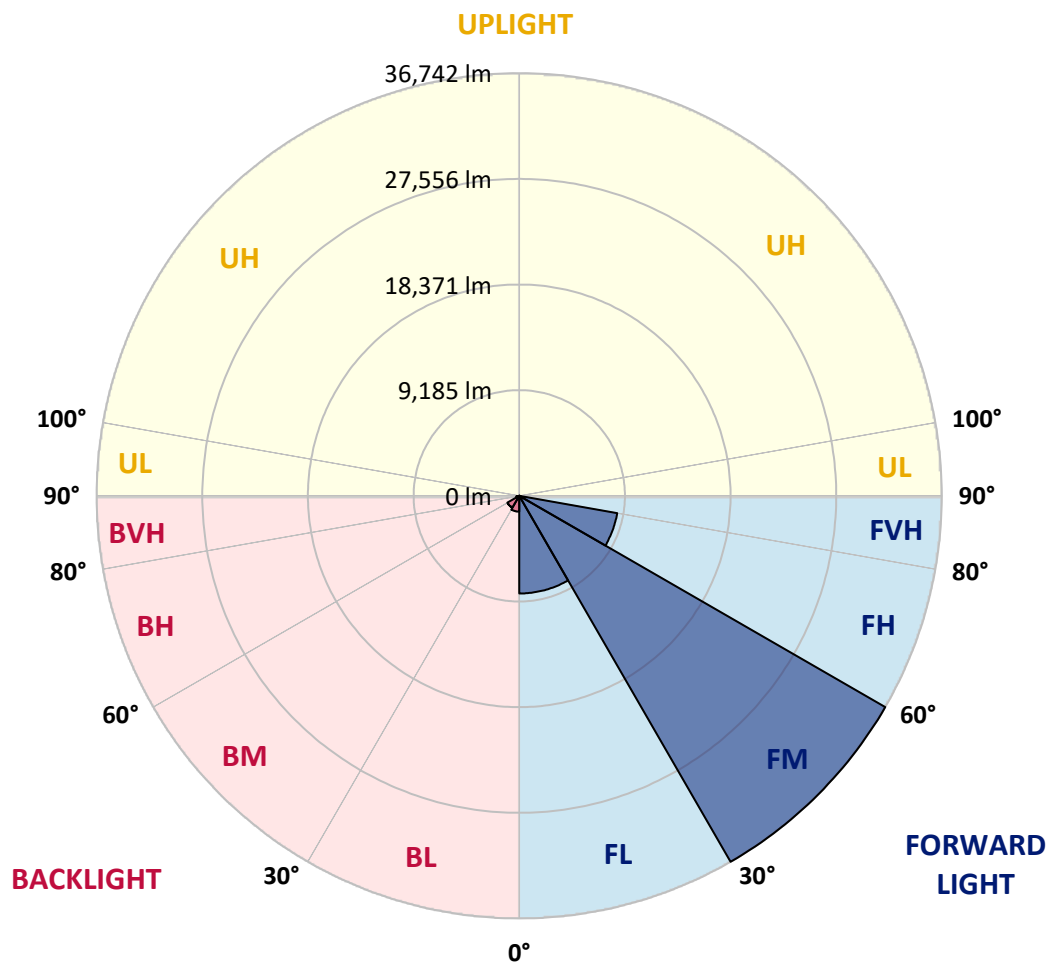
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	8488.2	14.9			
FM	(30°-60°)	36741.8	64.7			
FH	(60°-80°)	8647.7	15.2			G4/12000
FVH	(80°-90°)	73.2	0.1			G1/100
BL	(0°-30°)	1378.4	2.4	B3/2500		
BM	(30°-60°)	1190.5	2.1	B2/2500		
BH	(60°-80°)	261.1	0.5	B1/500		G1/500
BVH	(80°-90°)	3.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	12717.3	12717.3	12717.3	12717.3	12717.3	12717.3	12717.3	12717.3	12717.3	12717.3	12717.3
2.5°	15959.2	15721.3	15728.7	15620.8	15226.0	14917.0	14595.8	14519.7	14019.5	13494.7	12989.5
5°	18718.0	18543.9	18502.2	18293.7	17744.4	17163.3	16540.4	16395.7	15417.3	14343.2	13286.3
7.5°	20135.4	20137.8	20103.5	20027.5	19684.2	19120.1	18360.0	18207.9	16876.3	15265.2	13595.2
10°	19723.4	19816.6	20007.9	20260.4	20522.8	20451.7	19880.3	19743.0	18296.2	16241.2	13938.6
12.5°	18762.1	18774.4	18987.7	19402.2	20157.4	20932.4	20942.2	20895.6	19652.3	17261.3	14316.2
15°	18283.9	18330.5	18409.0	18676.3	19392.3	20633.2	21520.9	21587.1	20895.6	18345.2	14718.4
17.5°	18597.8	18664.0	18597.8	18629.7	19044.1	20159.9	21621.4	21790.6	21981.9	19416.9	15098.5
20°	19448.7	19510.1	19392.3	19262.4	19343.3	20022.6	21550.3	21778.4	22832.8	20368.3	15417.3
22.5°	20596.4	20620.9	20441.9	20228.6	20169.7	20488.5	21609.2	21844.6	23514.6	21229.1	15618.3
25°	21859.3	21881.4	21658.2	21413.0	21273.2	21403.2	22092.3	22268.8	24115.4	22050.6	15733.6
27.5°	23235.0	23254.6	22975.1	22673.4	22511.6	22516.5	22889.2	23078.1	24755.4	22987.3	15826.8
30°	24689.2	24679.4	24421.9	24002.6	23796.6	23791.7	24036.9	24228.2	25682.4	24188.9	15954.3
32.5°	26322.4	26302.8	25937.4	25417.5	25184.5	25218.9	25437.1	25547.5	26832.5	25469.0	16182.4
35°	28473.0	28416.6	27864.8	27219.9	26790.8	26778.5	26962.4	27050.7	28298.9	27018.8	16562.5
37.5°	31263.7	31212.2	30464.2	29527.5	28924.2	28698.6	28916.9	29029.7	30390.7	29007.6	17173.1
40°	34015.1	33963.6	33519.7	32661.4	31732.0	31190.1	31361.7	31481.9	33002.3	31420.6	17943.1
42.5°	35913.1	35957.3	36111.7	36182.9	35312.3	34174.5	34252.9	34378.0	35746.4	34000.4	18823.4
45°	36413.4	36509.0	37382.0	39096.1	39422.3	38534.6	37713.1	37781.7	38534.6	36580.1	19703.8
47.5°	34910.1	35086.7	36771.4	39959.3	42720.5	43348.3	41793.6	41702.9	41210.0	38667.0	20329.1
50°	31494.2	31656.0	33838.5	38554.2	43721.1	47943.8	46683.4	46416.1	43556.8	39915.2	20549.8
52.5°	26550.4	26746.6	28519.6	34130.3	41835.3	49993.9	51313.2	51090.0	45278.2	40013.3	20586.6
55°	18749.9	18987.7	20863.7	26158.1	35859.2	48363.2	52953.8	52887.5	46707.9	39753.3	20665.1
57.5°	10537.3	10708.9	12732.1	16768.4	26263.5	42124.6	51239.6	51678.6	47571.1	39302.1	20782.8
60°	4678.9	4725.5	5772.6	8347.4	15375.6	32193.1	46332.7	47073.3	46830.5	38698.9	20981.4
62.5°	2594.5	2555.2	2555.2	3469.9	6682.4	19929.4	37781.7	39005.4	43669.6	37985.3	20991.2
65°	2032.9	1996.1	1890.7	1905.4	2545.4	8845.2	26163.0	28338.1	37666.5	35893.5	20285.0
67.5°	1723.9	1692.0	1586.6	1544.9	1581.7	2918.2	14375.1	16633.6	28580.9	30456.9	17570.3
70°	1456.6	1434.6	1380.6	1329.1	1235.9	1441.9	5500.4	7035.5	17612.0	20260.4	11993.9
72.5°	1172.2	1162.4	1182.0	1137.8	1025.0	961.3	1880.9	2278.1	7910.9	9041.4	4941.3
75°	1010.3	1005.4	1015.2	971.1	843.6	669.5	956.4	1044.7	2231.5	2211.9	1000.5
77.5°	657.2	664.6	841.1	821.5	725.9	446.3	495.4	534.6	676.8	507.6	304.1
80°	419.3	414.4	426.7	681.7	652.3	340.9	247.7	259.9	326.1	250.1	147.1
82.5°	255.0	250.1	279.6	318.8	328.6	237.9	152.0	154.5	203.5	161.8	78.5
85°	22.1	29.4	169.2	156.9	112.8	73.6	73.6	78.5	107.9	95.6	44.1
87.5°	0.0	0.0	29.4	44.1	24.5	27.0	27.0	29.4	41.7	41.7	22.1
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°	12717.3	12717.3	12717.3	12717.3	12717.3	12717.3	12717.3	12717.3	12717.3	12717.3	12717.3
2.5°	12727.1	12472.1	11957.1	11461.8	11042.5	10637.8	10176.8	9720.7	9507.3	9421.5	9333.2
5°	12749.2	12224.4	11162.6	10093.4	8985.0	7987.0	7136.0	6263.0	5826.5	5635.3	5547.0
7.5°	12778.6	11979.2	10262.6	8467.6	6682.4	5328.7	4146.7	3386.5	3057.9	3006.5	2878.9
10°	12783.5	11682.5	9218.0	6672.6	4480.2	3212.4	2471.9	2079.5	1934.8	1910.3	1868.6
12.5°	12793.4	11331.8	8058.1	4941.3	2986.8	2148.2	1787.7	1657.7	1618.5	1616.0	1616.0
15°	12822.8	10964.0	6854.0	3560.7	2145.7	1701.9	1569.4	1517.9	1503.2	1510.6	1508.1
17.5°	12822.8	10529.9	5672.0	2653.3	1733.7	1530.2	1456.6	1422.3	1417.4	1424.8	1427.2
20°	12729.6	10002.7	4588.1	2064.8	1537.6	1419.8	1353.6	1321.8	1309.5	1314.4	1316.9
22.5°	12506.4	9355.3	3705.3	1709.2	1407.6	1319.3	1248.2	1199.1	1179.5	1182.0	1182.0
25°	12158.2	8587.8	2898.6	1478.7	1302.1	1211.4	1128.0	1071.6	1059.4	1056.9	1061.8
27.5°	11711.9	7739.3	2307.6	1302.1	1177.1	1091.2	1007.9	961.3	951.5	953.9	956.4
30°	11273.0	6858.9	1819.6	1152.6	1037.3	956.4	892.6	870.5	870.5	877.9	880.4
32.5°	10870.8	6012.9	1439.5	1022.6	912.2	838.7	801.9	799.4	811.7	816.6	819.0
35°	10525.0	5230.6	1191.8	922.0	814.1	750.4	738.1	747.9	762.6	772.5	774.9
37.5°	10279.8	4531.7	1042.2	838.7	738.1	686.6	684.2	703.8	723.4	745.5	750.4
40°	10176.8	3940.8	939.2	765.1	676.8	637.6	630.2	657.2	694.0	725.9	730.8
42.5°	10091.0	3457.7	850.9	694.0	627.8	571.4	568.9	603.3	647.4	679.3	686.6
45°	10017.4	3070.2	770.0	618.0	564.0	490.4	497.8	541.9	576.3	610.6	618.0
47.5°	9865.4	2751.4	681.7	537.0	465.9	419.3	434.0	473.3	500.3	551.8	559.1
50°	9593.2	2491.5	591.0	439.0	380.1	362.9	385.0	412.0	446.3	490.4	495.4
52.5°	9409.3	2295.3	512.5	367.8	313.9	318.8	340.9	350.7	370.3	387.5	382.6
55°	9303.8	2187.4	448.8	318.8	267.3	282.0	286.9	274.7	264.8	247.7	240.3
57.5°	9291.6	2089.3	399.7	277.1	235.4	242.8	225.6	183.9	149.6	130.0	125.1
60°	9271.9	1969.2	360.5	233.0	208.4	198.6	161.8	100.5	71.1	66.2	66.2
62.5°	9058.6	1782.8	331.1	196.2	176.6	149.6	93.2	46.6	39.2	41.7	41.7
65°	8379.3	1522.8	301.6	159.4	139.8	107.9	46.6	27.0	14.7	17.2	17.2
67.5°	7123.8	1213.9	269.7	122.6	105.4	68.7	27.0	12.3	0.0	0.0	0.0
70°	4769.6	752.8	228.1	85.8	68.7	41.7	19.6	2.5	0.0	0.0	0.0
72.5°	1829.4	407.1	183.9	51.5	44.1	29.4	12.3	0.0	0.0	0.0	0.0
75°	412.0	267.3	127.5	36.8	31.9	19.6	4.9	0.0	0.0	0.0	0.0
77.5°	156.9	193.7	73.6	24.5	22.1	12.3	0.0	0.0	0.0	0.0	0.0
80°	76.0	115.3	34.3	14.7	12.3	4.9	0.0	0.0	0.0	0.0	0.0
82.5°	39.2	44.1	14.7	7.4	4.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	22.1	22.1	7.4	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.3	7.4	2.5	2.5	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)