

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: P324893

Luminaire Tested: **GAN-SA9C-760-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324893
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-SA9C-760-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5700K, 1050mA 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: 51764 lumens
Efficiency: N/A
Efficacy: 103.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

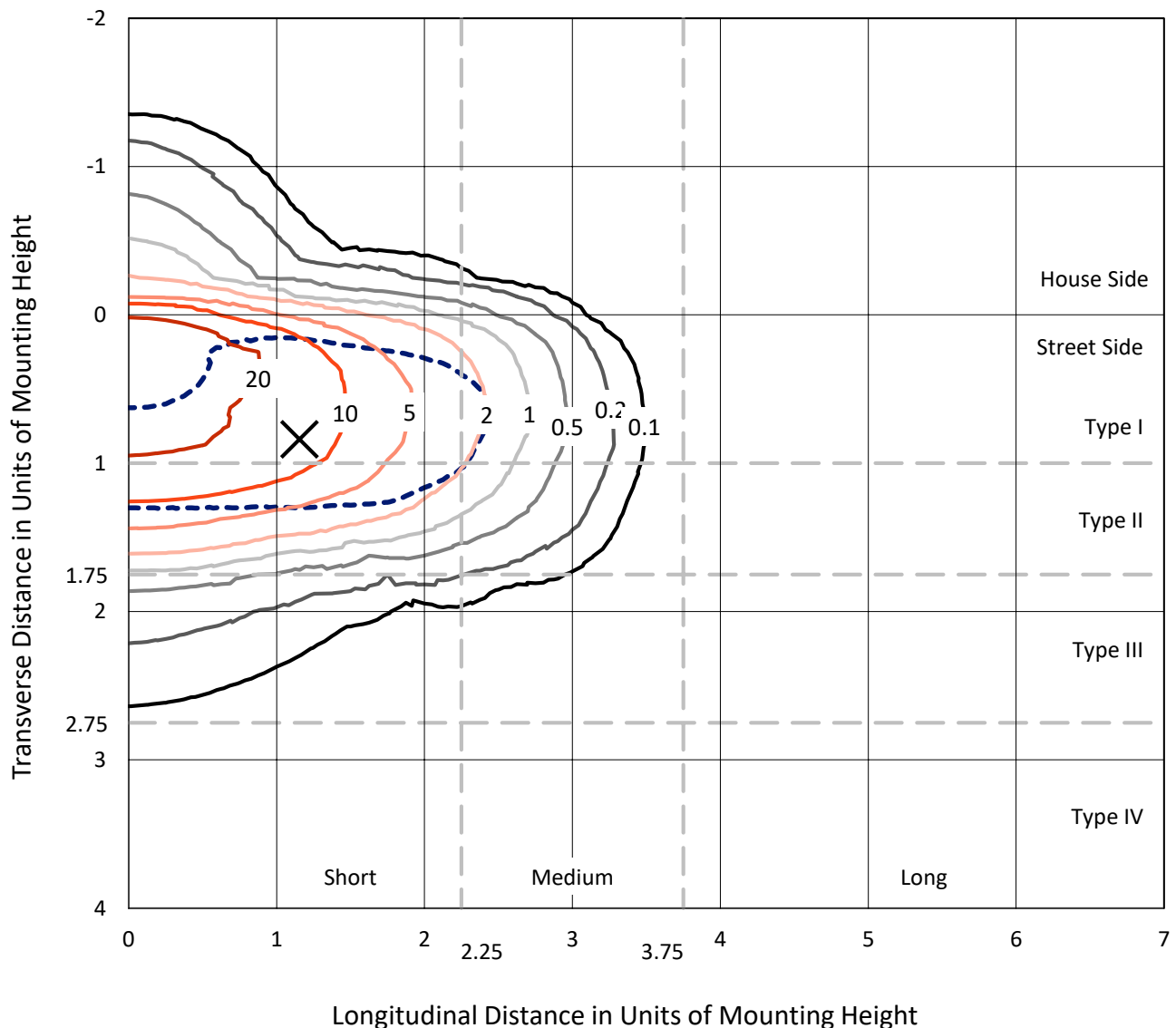
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

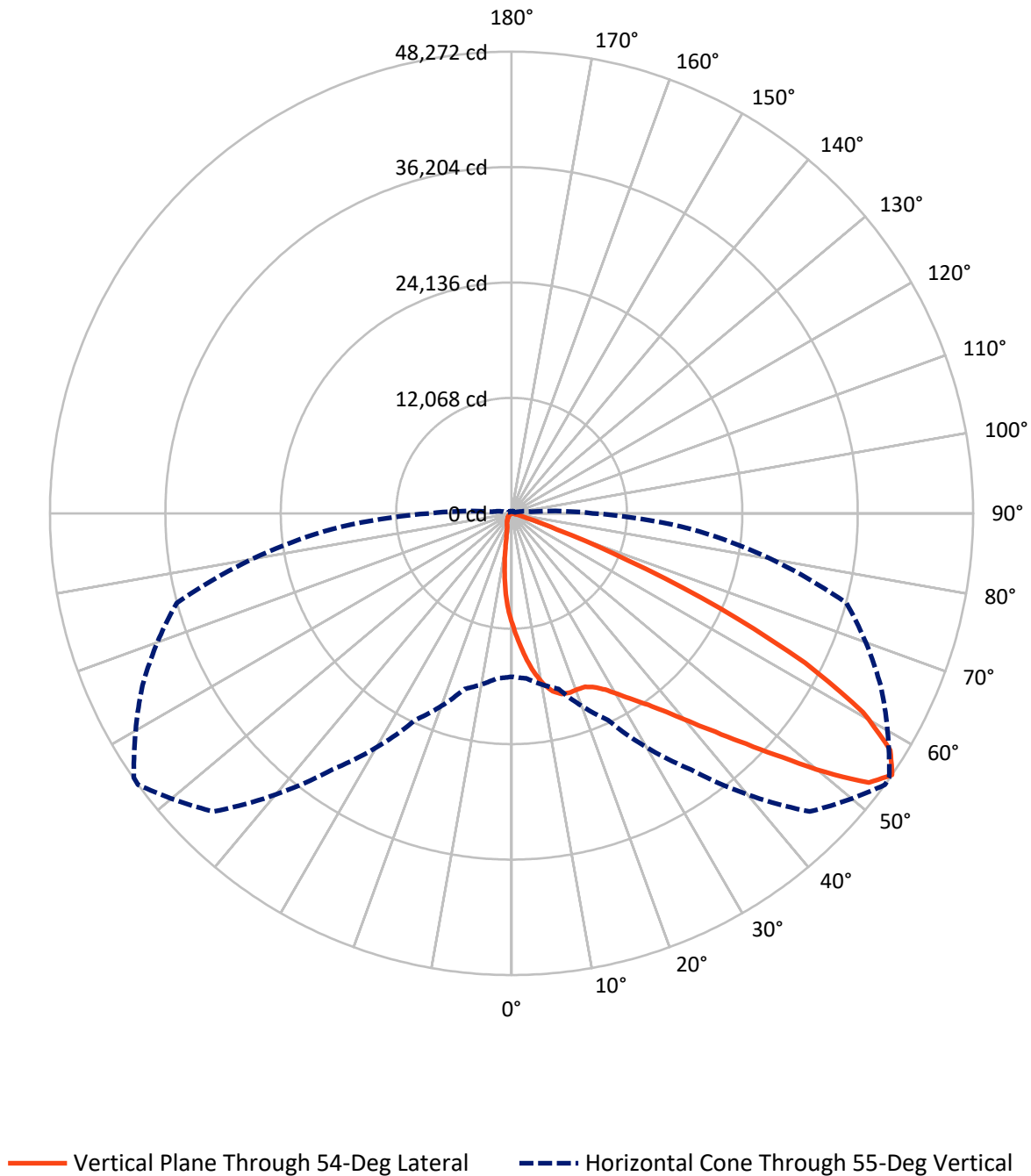
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 28.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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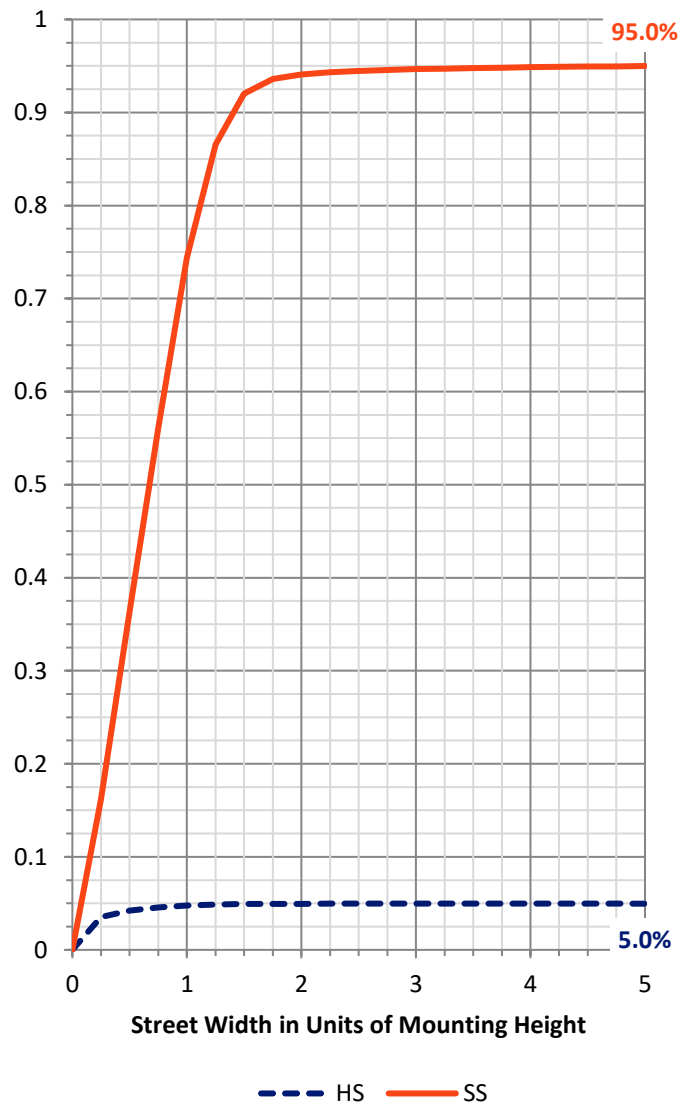
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2582.6	0.0	2582.6
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	49181.4	0.0	49181.4
	% Fixture	95.0	0.0	95.0
Total	Lumens	51764.0	0.0	51764.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1067.6	2.1
10°-20°	2927.9	5.7
20°-30°	4998.9	9.7
30°-40°	8022.4	15.5
40°-50°	12819.8	24.8
50°-60°	13736.7	26.5
60°-70°	7052.8	13.6
70°-80°	1068.3	2.1
80°-90°	69.6	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°	51764.0	100.0
0°-180°	51764.0	100.0

Coefficient of Utilization



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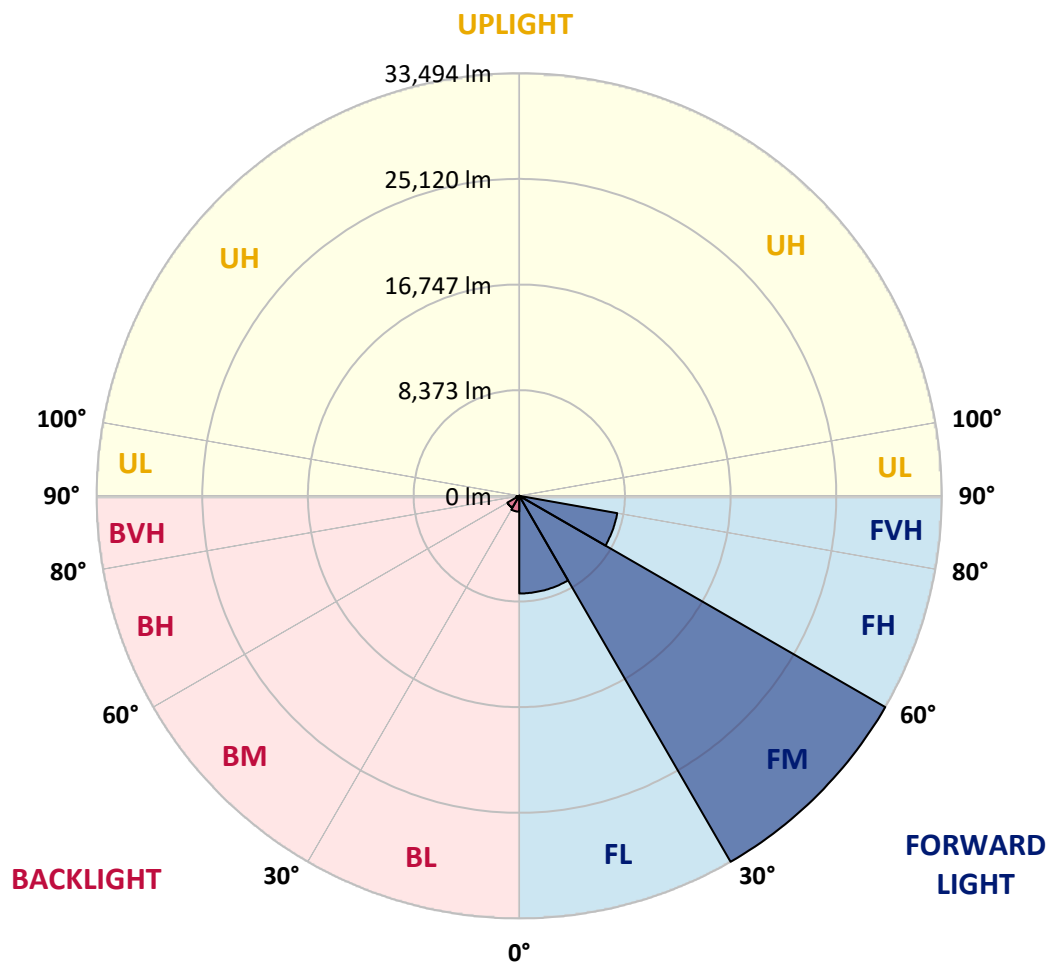
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	7737.8	14.9			
FM	(30°-60°)	33493.6	64.7			
FH	(60°-80°)	7883.2	15.2			G4/12000
FVH	(80°-90°)	66.8	0.1			G1/100
BL	(0°-30°)	1256.6	2.4	B3/2500		
BM	(30°-60°)	1085.3	2.1	B2/2500		
BH	(60°-80°)	238.0	0.5	B1/500		G1/500
BVH	(80°-90°)	2.8	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°	11593.1	11593.1	11593.1	11593.1	11593.1	11593.1	11593.1	11593.1	11593.1	11593.1	11593.1
2.5°	14548.3	14331.5	14338.2	14239.8	13879.9	13598.3	13305.4	13236.1	12780.1	12301.7	11841.2
5°	17063.2	16904.5	16866.5	16676.5	16175.7	15645.9	15078.1	14946.2	14054.3	13075.2	12111.7
7.5°	18355.3	18357.5	18326.2	18256.9	17944.0	17429.8	16736.8	16598.2	15384.4	13915.7	12393.4
10°	17979.7	18064.7	18239.1	18469.3	18708.5	18643.7	18122.8	17997.6	16678.7	14805.4	12706.3
12.5°	17103.4	17114.6	17309.1	17686.9	18375.4	19081.8	19090.8	19048.3	17914.9	15735.4	13050.6
15°	16667.5	16710.0	16781.5	17025.2	17678.0	18809.1	19618.3	19678.7	19048.3	16723.4	13417.2
17.5°	16953.7	17014.0	16953.7	16982.7	17360.5	18377.7	19710.0	19864.2	20038.6	17700.3	13763.7
20°	17729.4	17785.3	17678.0	17559.5	17633.3	18252.5	19645.2	19853.1	20814.3	18567.7	14054.3
22.5°	18775.6	18797.9	18634.7	18440.3	18386.6	18677.2	19698.8	19913.4	21435.8	19352.3	14237.6
25°	19926.8	19946.9	19743.5	19520.0	19392.6	19511.0	20139.2	20300.1	21983.4	20101.2	14342.7
27.5°	21180.9	21198.8	20944.0	20669.0	20521.5	20525.9	20865.7	21037.8	22566.9	20955.1	14427.6
30°	22506.5	22497.6	22262.9	21880.6	21692.8	21688.4	21911.9	22086.3	23411.9	22050.5	14543.9
32.5°	23995.4	23977.5	23644.4	23170.5	22958.1	22989.4	23188.4	23288.9	24460.3	23217.4	14751.8
35°	25955.8	25904.4	25401.5	24813.5	24422.3	24411.1	24578.8	24659.3	25797.1	24630.2	15098.2
37.5°	28499.8	28452.8	27771.0	26917.1	26367.2	26161.5	26360.5	26463.3	27704.0	26443.2	15654.9
40°	31008.0	30961.0	30556.4	29774.0	28926.8	28432.7	28589.2	28698.7	30084.7	28642.9	16356.8
42.5°	32738.2	32778.4	32919.3	32984.1	32190.5	31153.3	31224.8	31338.8	32586.2	30994.6	17159.3
45°	33194.2	33281.4	34077.2	35639.8	35937.1	35127.9	34379.0	34441.6	35127.9	33346.3	17961.9
47.5°	31823.9	31984.9	33520.6	36426.7	38943.8	39516.1	38098.8	38016.1	37566.8	35248.6	18531.9
50°	28709.9	28857.5	30847.0	35145.8	39855.9	43705.3	42556.3	42312.7	39706.1	36386.5	18733.1
52.5°	24203.2	24382.1	25998.3	31113.0	38136.8	45574.2	46776.9	46573.4	41275.4	36475.9	18766.6
55°	17092.3	17309.1	19019.2	23845.6	32689.0	44087.6	48272.4	48212.0	42578.7	36238.9	18838.2
57.5°	9605.7	9762.2	11606.5	15286.0	23941.7	38400.6	46709.8	47109.9	43365.5	35827.6	18945.5
60°	4265.2	4307.7	5262.3	7609.5	14016.3	29347.0	42236.6	42911.8	42690.4	35277.7	19126.5
62.5°	2365.1	2329.3	2329.3	3163.2	6091.6	18167.5	34441.6	35557.1	39808.9	34627.2	19135.5
65°	1853.2	1819.7	1723.5	1736.9	2320.4	8063.3	23850.0	25832.9	34336.6	32720.3	18491.7
67.5°	1571.5	1542.5	1446.3	1408.3	1441.9	2660.2	13104.2	15163.1	26054.2	27764.3	16017.0
70°	1327.9	1307.7	1258.6	1211.6	1126.7	1314.4	5014.1	6413.5	16055.0	18469.3	10933.6
72.5°	1068.5	1059.6	1077.5	1037.3	934.4	876.3	1714.6	2076.7	7211.6	8242.1	4504.4
75°	921.0	916.5	925.5	885.2	769.0	610.3	871.8	952.3	2034.3	2016.4	912.1
77.5°	599.1	605.8	766.8	748.9	661.7	406.9	451.6	487.3	617.0	462.7	277.2
80°	382.3	377.8	389.0	621.5	594.6	310.7	225.8	237.0	297.3	228.0	134.1
82.5°	232.5	228.0	254.8	290.6	299.6	216.8	138.6	140.8	185.5	147.5	71.5
85°	20.1	26.8	154.2	143.1	102.8	67.1	67.1	71.5	98.4	87.2	40.2
87.5°	0.0	0.0	26.8	40.2	22.4	24.6	24.6	26.8	38.0	38.0	20.1
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°	11593.1	11593.1	11593.1	11593.1	11593.1	11593.1	11593.1	11593.1	11593.1	11593.1	11593.1
2.5°	11602.0	11369.5	10900.1	10448.5	10066.2	9697.4	9277.1	8861.3	8666.9	8588.6	8508.1
5°	11622.1	11143.7	10175.8	9201.1	8190.7	7280.9	6505.2	5709.3	5311.4	5137.1	5056.6
7.5°	11648.9	10920.2	9355.4	7719.0	6091.6	4857.6	3780.2	3087.2	2787.6	2740.7	2624.4
10°	11653.4	10649.7	8403.1	6082.7	4084.2	2928.4	2253.3	1895.7	1763.8	1741.4	1703.4
12.5°	11662.4	10330.0	7345.7	4504.4	2722.8	1958.3	1629.6	1511.2	1475.4	1473.2	1473.2
15°	11689.2	9994.7	6248.1	3245.9	1956.0	1551.4	1430.7	1383.7	1370.3	1377.0	1374.8
17.5°	11689.2	9599.0	5170.6	2418.8	1580.5	1394.9	1327.9	1296.6	1292.1	1298.8	1301.0
20°	11604.2	9118.4	4182.5	1882.3	1401.6	1294.3	1234.0	1204.9	1193.7	1198.2	1200.4
22.5°	11400.8	8528.3	3377.8	1558.1	1283.1	1202.7	1137.8	1093.1	1075.3	1077.5	1077.5
25°	11083.4	7828.6	2642.3	1348.0	1187.0	1104.3	1028.3	976.9	965.7	963.5	968.0
27.5°	10676.5	7055.1	2103.6	1187.0	1073.0	994.8	918.8	876.3	867.4	869.6	871.8
30°	10276.4	6252.6	1658.7	1050.7	945.6	871.8	813.7	793.6	793.6	800.3	802.5
32.5°	9909.8	5481.3	1312.2	932.2	831.6	764.5	731.0	728.8	739.9	744.4	746.6
35°	9594.6	4768.2	1086.4	840.5	742.2	684.0	672.9	681.8	695.2	704.2	706.4
37.5°	9371.0	4131.1	950.1	764.5	672.9	625.9	623.7	641.6	659.5	679.6	684.0
40°	9277.1	3592.4	856.2	697.5	617.0	581.2	574.5	599.1	632.6	661.7	666.2
42.5°	9198.9	3152.0	775.7	632.6	572.3	520.9	518.6	549.9	590.2	619.2	625.9
45°	9131.8	2798.8	701.9	563.3	514.2	447.1	453.8	494.0	525.3	556.6	563.3
47.5°	8993.2	2508.2	621.5	489.6	424.7	382.3	395.7	431.4	456.0	503.0	509.7
50°	8745.1	2271.2	538.7	400.1	346.5	330.8	351.0	375.6	406.9	447.1	451.6
52.5°	8577.4	2092.4	467.2	335.3	286.1	290.6	310.7	319.7	337.6	353.2	348.7
55°	8481.3	1994.0	409.1	290.6	243.7	257.1	261.5	250.4	241.4	225.8	219.1
57.5°	8470.1	1904.6	364.4	252.6	214.6	221.3	205.7	167.7	136.4	118.5	114.0
60°	8452.2	1795.1	328.6	212.4	190.0	181.1	147.5	91.7	64.8	60.4	60.4
62.5°	8257.8	1625.2	301.8	178.8	161.0	136.4	84.9	42.5	35.8	38.0	38.0
65°	7638.5	1388.2	275.0	145.3	127.4	98.4	42.5	24.6	13.4	15.6	15.6
67.5°	6494.0	1106.5	245.9	111.8	96.1	62.6	24.6	11.2	0.0	0.0	0.0
70°	4348.0	686.3	207.9	78.2	62.6	38.0	17.9	2.2	0.0	0.0	0.0
72.5°	1667.6	371.1	167.7	46.9	40.2	26.8	11.2	0.0	0.0	0.0	0.0
75°	375.6	243.7	116.2	33.5	29.1	17.9	4.5	0.0	0.0	0.0	0.0
77.5°	143.1	176.6	67.1	22.4	20.1	11.2	0.0	0.0	0.0	0.0	0.0
80°	69.3	105.1	31.3	13.4	11.2	4.5	0.0	0.0	0.0	0.0	0.0
82.5°	35.8	40.2	13.4	6.7	4.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	20.1	20.1	6.7	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.2	6.7	2.2	2.2	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)