

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: P323454

Luminaire Tested: **GAN-SA0C-727-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323454
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0C-727-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50019 lumens
Efficiency: N/A
Efficacy: 89.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 558
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

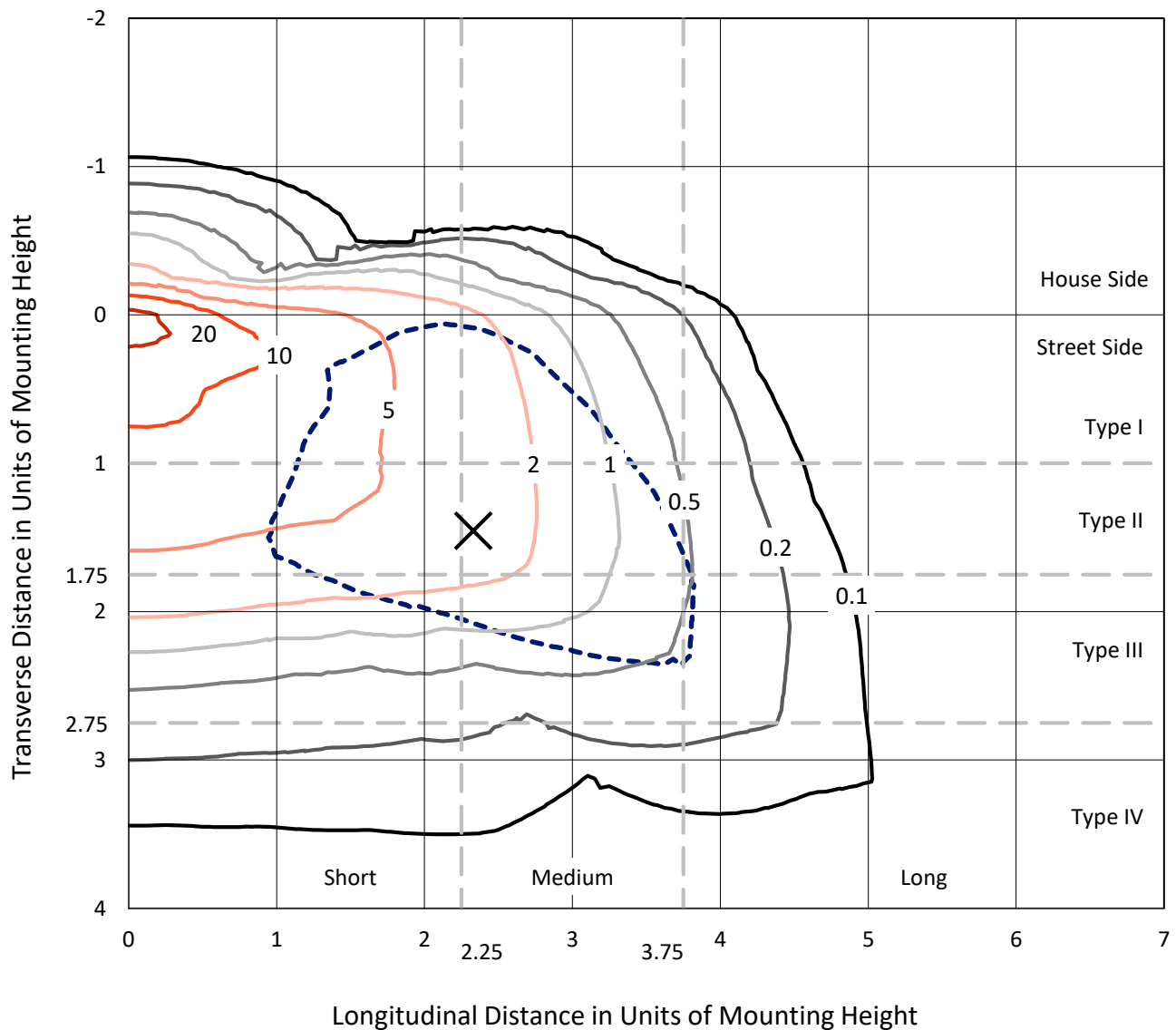


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Iso-Footcandle Lines of Horizontal Illumination

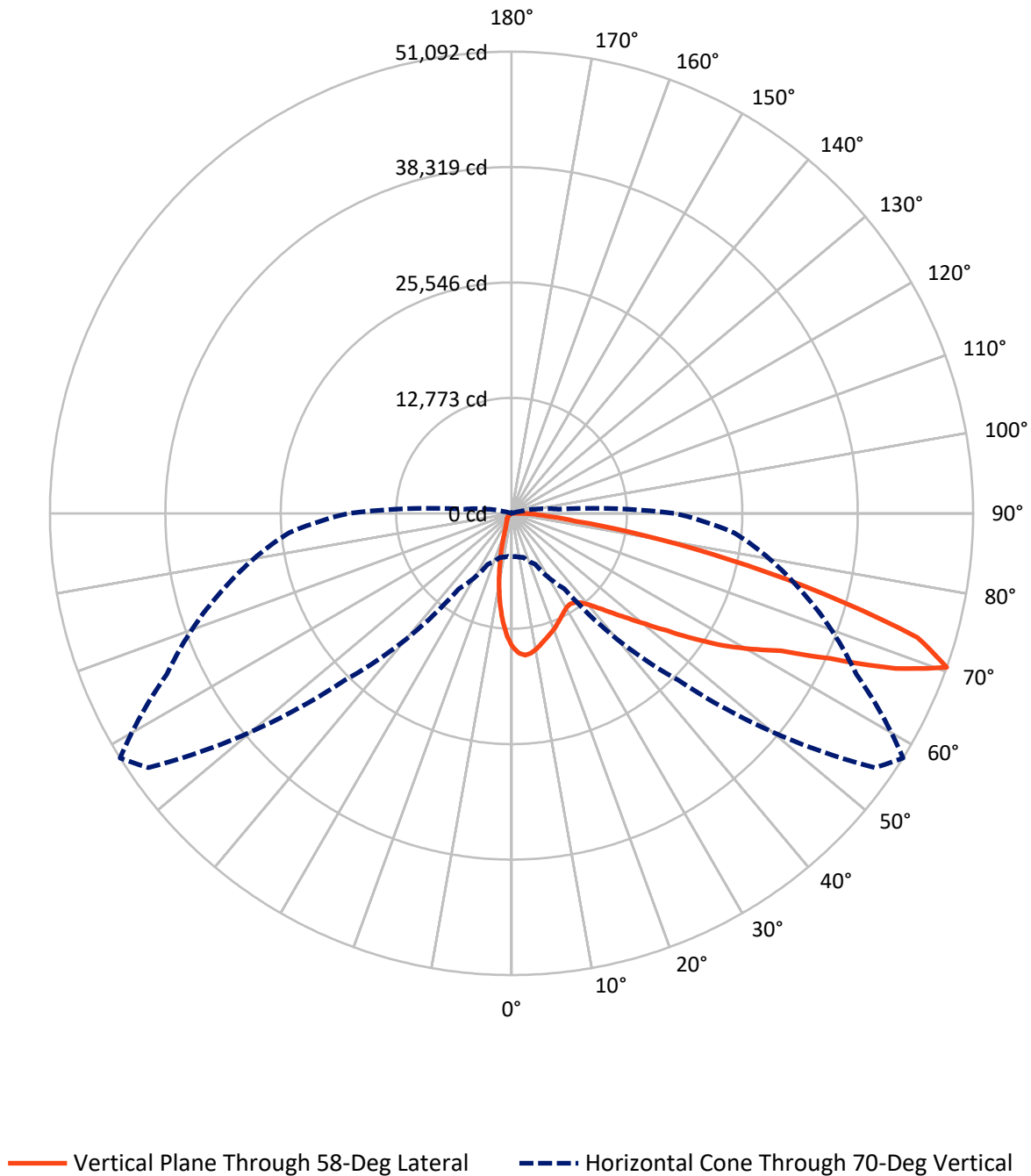
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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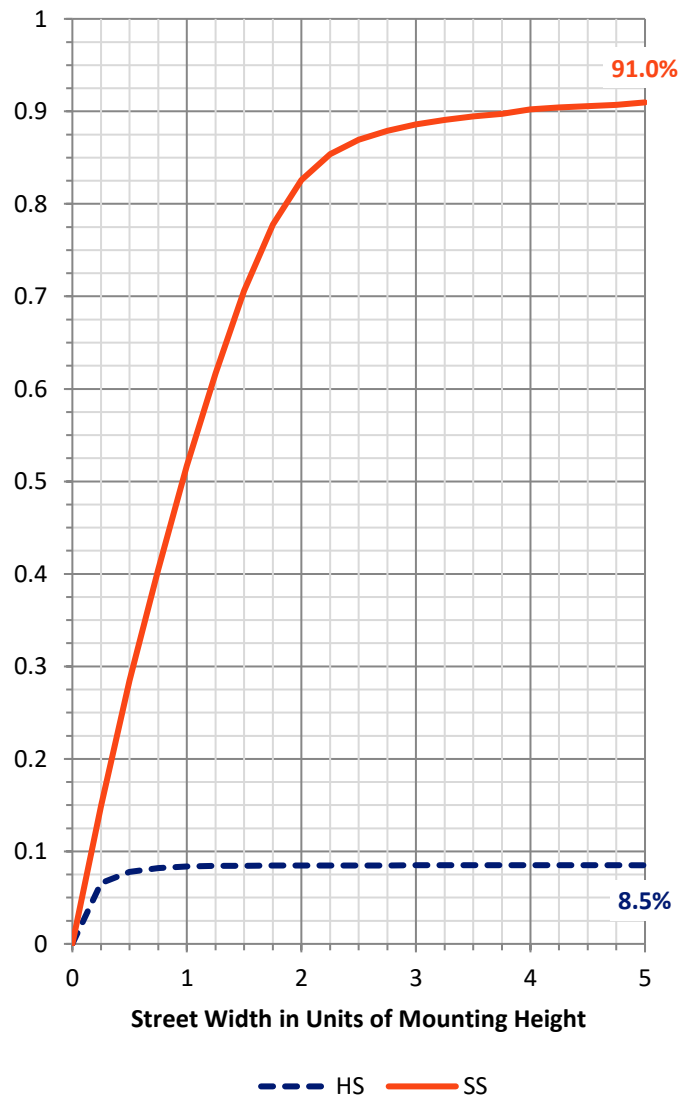
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4280.5	0.0	4280.5
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	45738.5	0.0	45738.5
	% Fixture	91.4	0.0	91.4
Total	Lumens	50019.0	0.0	50019.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1208.2	2.4
10°-20°	2535.8	5.1
20°-30°	3333.7	6.7
30°-40°	4415.2	8.8
40°-50°	6599.3	13.2
50°-60°	10571.8	21.1
60°-70°	13325.7	26.6
70°-80°	7187.8	14.4
80°-90°	841.4	1.7
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°	50019.0	100.0
0°-180°	50019.0	100.0

Coefficient of Utilization



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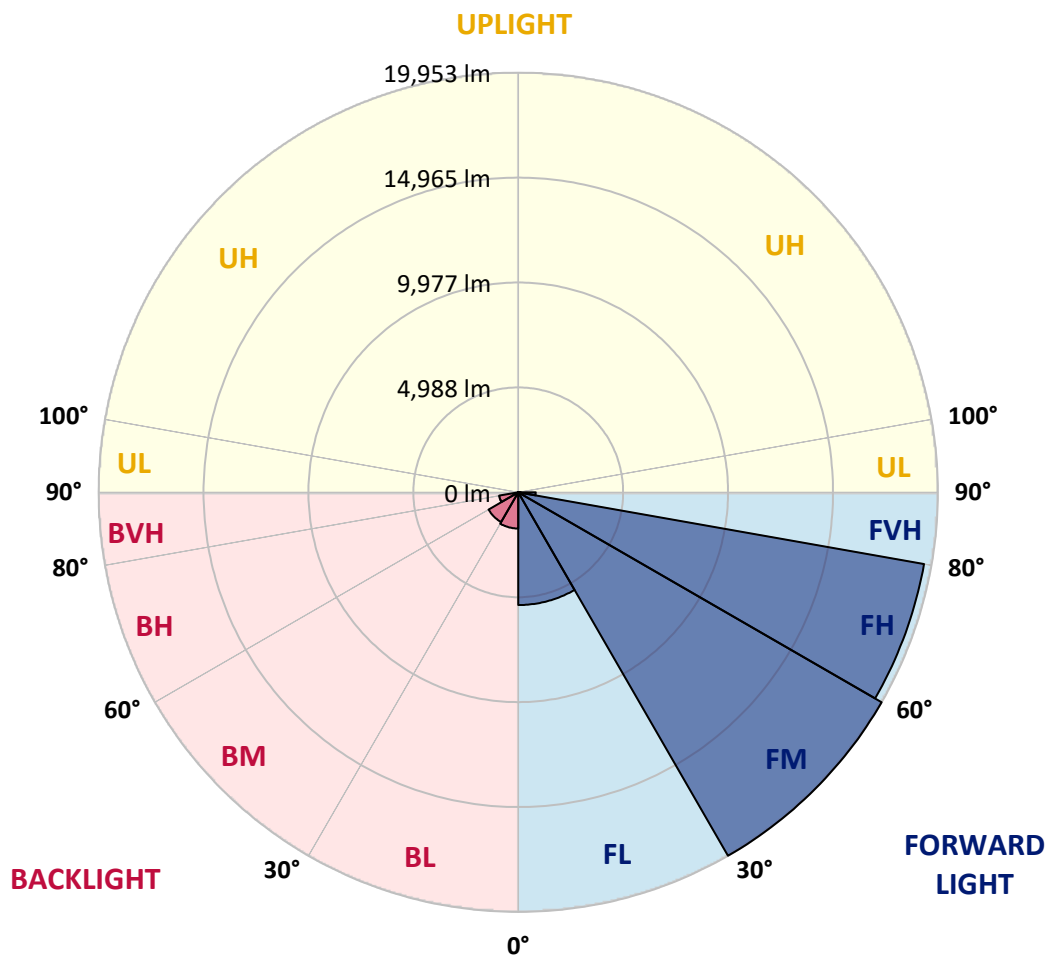
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5358.1	10.7			
FM	(30°-60°)	19953.3	39.9			
FH	(60°-80°)	19593.0	39.2			G5
FVH	(80°-90°)	834.1	1.7			G5
BL	(0°-30°)	1719.7	3.4	B3/2500		
BM	(30°-60°)	1633.0	3.3	B2/2500		
BH	(60°-80°)	920.5	1.8	B2/1000		G2/1000
BVH	(80°-90°)	7.3	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	14775.4	14775.4	14775.4	14775.4	14775.4	14775.4	14775.4	14775.4	14775.4	14775.4	14775.4
2.5°	16000.4	15960.9	15946.3	15921.4	15825.7	15732.1	15547.0	15495.0	15378.5	15101.9	14808.7
5°	16012.9	16010.8	16054.5	16044.1	16010.8	15967.1	15834.0	15765.4	15567.8	15172.6	14636.0
7.5°	15241.3	15280.8	15378.5	15457.6	15549.1	15667.6	15684.3	15617.7	15455.5	15029.1	14317.8
10°	14205.5	14267.9	14405.2	14561.1	14800.3	15037.4	15249.6	15241.3	15185.1	14765.0	13935.1
12.5°	13167.6	13240.4	13398.5	13629.4	13968.4	14355.2	14733.8	14785.8	14879.4	14527.9	13581.5
15°	12258.7	12321.1	12477.1	12760.0	13180.1	13700.1	14255.4	14351.1	14592.3	14342.8	13286.2
17.5°	11487.1	11526.6	11641.0	11955.1	12441.8	13072.0	13793.7	13980.9	14340.7	14197.2	13030.4
20°	10948.4	10954.7	11029.5	11250.0	11736.7	12441.8	13315.3	13583.6	14074.5	14072.4	12766.2
22.5°	10682.2	10661.4	10676.0	10802.8	11160.6	11840.7	12836.9	13155.2	13835.3	13966.3	12497.9
25°	10632.3	10615.6	10574.0	10590.7	10807.0	11314.5	12354.4	12722.5	13625.2	13901.8	12265.0
27.5°	10788.3	10804.9	10734.2	10659.3	10676.0	10973.4	11926.0	12352.3	13454.7	13901.8	12100.7
30°	11102.3	11110.7	11058.7	10960.9	10829.9	10877.7	11628.5	12054.9	13369.4	13997.5	11996.7
32.5°	11449.7	11495.4	11489.2	11410.2	11223.0	11029.5	11557.8	11946.8	13363.1	14209.7	11986.3
35°	11880.2	11932.2	12019.6	12002.9	11807.4	11489.2	11799.1	12104.8	13485.9	14559.1	12098.6
37.5°	12337.8	12416.8	12604.0	12693.4	12566.6	12206.7	12339.9	12558.2	13814.5	15124.8	12383.5
40°	12780.8	12870.2	13211.3	13562.8	13467.1	13096.9	13159.3	13334.0	14398.9	15938.0	12924.3
42.5°	13215.5	13348.6	13849.8	14428.0	14542.4	14247.1	14280.4	14419.7	15266.2	17057.0	13808.2
45°	13735.4	13885.2	14627.7	15341.1	15646.8	15517.9	15659.3	15750.8	16399.8	18535.8	15000.0
47.5°	14498.8	14671.4	15582.4	16395.6	16932.2	17015.4	17300.3	17360.7	17832.8	20257.9	16553.7
50°	15987.9	16035.8	16859.4	17597.8	18371.5	18870.6	19195.1	19240.9	19567.4	22140.2	18494.2
52.5°	17861.9	17893.1	18359.0	18854.0	19733.8	20752.9	21512.1	21576.5	21645.2	23974.6	20409.7
55°	19723.4	19719.2	20027.0	20318.2	21324.9	22805.7	24453.0	24492.5	23999.6	25715.5	21874.0
57.5°	20886.0	20998.3	21466.3	21840.7	23246.7	25145.6	27431.4	27577.0	26472.5	27005.0	23321.5
60°	20515.8	20569.9	21607.7	22992.9	25640.6	28471.3	30445.1	30482.5	28331.9	28292.4	25151.8
62.5°	17479.2	17508.3	19138.9	21994.6	26853.2	32784.9	34080.7	33471.3	30470.1	30079.0	27341.9
65°	11980.0	12169.3	13531.6	17061.1	24625.6	35490.9	39708.8	38700.1	33729.2	32653.9	29322.0
67.5°	7054.9	7015.4	7689.3	10289.1	18086.5	33693.8	46828.2	45825.7	38173.9	34378.1	28741.7
70°	4819.1	4792.0	5049.9	6229.2	10210.1	26137.7	49068.2	51091.9	42098.6	33217.6	24735.9
72.5°	3440.1	3454.7	3835.3	4839.9	6410.2	15228.8	42196.3	46986.3	40869.4	28958.0	18802.0
75°	2335.7	2375.2	2920.1	3970.5	5619.8	7747.5	29943.8	35717.6	33280.0	21046.2	10807.0
77.5°	1256.2	1299.9	1942.6	3198.8	5081.1	5382.7	19261.6	24581.9	20904.7	9461.3	3132.3
80°	524.1	549.1	908.9	2325.3	4390.6	4727.5	11333.2	14906.4	8908.1	1865.6	698.8
82.5°	226.7	239.2	378.5	1387.3	3282.0	3991.3	6000.4	7171.4	2699.7	409.7	351.5
85°	43.7	45.8	156.0	734.2	2094.4	2252.5	3889.4	3812.4	1212.6	176.8	255.8
87.5°	0.0	0.0	37.4	230.9	615.6	1227.1	2373.1	2344.0	411.8	85.3	95.7
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°	14775.4	14775.4	14775.4	14775.4	14775.4	14775.4	14775.4	14775.4	14775.4	14775.4	14775.4
2.5°	14658.9	14515.4	14213.8	13841.5	13556.6	13242.5	12992.9	12676.8	12539.5	12545.8	12470.9
5°	14330.3	14034.9	13367.3	12525.0	11876.0	11206.3	10630.2	10056.2	9717.1	9606.9	9502.9
7.5°	13860.2	13392.3	12327.4	11029.5	9931.4	8858.2	7924.3	7102.7	6582.8	6329.0	6235.4
10°	13329.9	12672.6	11131.4	9421.8	7853.6	6401.8	5191.3	4138.9	3718.8	3433.9	3361.1
12.5°	12864.0	11973.8	9962.6	7772.5	5911.0	4159.7	3005.4	2350.2	2065.3	1953.0	1934.3
15°	12425.1	11320.7	8837.4	6279.1	4093.2	2560.3	1911.4	1688.9	1622.3	1603.6	1603.6
17.5°	12011.2	10698.8	7737.1	4808.7	2708.0	1794.9	1582.8	1532.9	1512.1	1510.0	1512.1
20°	11578.6	10077.0	6655.6	3523.3	1890.6	1520.4	1462.1	1435.1	1428.9	1428.9	1428.9
22.5°	11164.7	9455.1	5603.2	2516.6	1516.2	1387.3	1358.2	1339.4	1333.2	1331.1	1327.0
25°	10767.5	8864.4	4575.7	1778.3	1331.1	1270.8	1245.8	1220.9	1202.2	1191.8	1185.5
27.5°	10440.9	8338.2	3619.0	1426.8	1202.2	1150.2	1119.0	1081.5	1035.8	1015.0	1006.7
30°	10180.9	7857.7	2789.1	1204.2	1081.5	1029.5	981.7	917.2	850.7	815.3	813.2
32.5°	9977.1	7385.6	2117.3	1064.9	973.4	908.9	840.3	759.2	682.2	642.7	640.6
35°	9877.3	6969.6	1618.1	963.0	877.7	796.6	711.3	621.9	547.0	509.6	505.4
37.5°	9943.8	6618.1	1262.5	877.7	796.6	703.0	603.2	509.6	443.0	409.7	407.7
40°	10187.2	6393.5	1025.4	804.9	728.0	613.6	505.4	418.1	361.9	334.9	332.8
42.5°	10705.1	6310.3	875.6	744.6	661.4	530.4	420.1	345.3	293.3	274.5	270.4
45°	11570.3	6433.0	773.7	686.4	592.8	451.3	347.3	282.9	237.1	222.5	220.5
47.5°	12722.5	6755.4	700.9	630.2	530.4	380.6	289.1	228.8	193.4	178.9	176.8
50°	14207.6	7267.1	640.6	574.0	472.1	322.4	239.2	180.9	149.8	139.4	139.4
52.5°	15823.6	7876.5	586.5	522.0	413.9	268.3	193.4	139.4	118.6	106.1	106.1
55°	17158.9	8408.9	528.3	482.5	343.2	222.5	147.7	106.1	87.4	81.1	81.1
57.5°	18492.1	8976.7	461.7	413.9	274.5	180.9	112.3	79.0	64.5	60.3	60.3
60°	20220.5	9671.4	397.3	336.9	216.3	137.3	83.2	56.2	47.8	45.8	45.8
62.5°	22121.5	10079.0	339.0	270.4	168.5	101.9	60.3	37.4	35.4	35.4	33.3
65°	23284.1	9502.9	284.9	216.3	131.0	77.0	39.5	27.0	31.2	29.1	25.0
67.5°	21801.2	7439.7	232.9	168.5	101.9	58.2	25.0	18.7	33.3	27.0	20.8
70°	18051.2	5208.0	180.9	118.6	81.1	49.9	16.6	12.5	35.4	27.0	16.6
72.5°	13508.7	3485.9	143.5	79.0	60.3	43.7	14.6	6.2	31.2	22.9	14.6
75°	7381.4	1403.9	114.4	49.9	37.4	31.2	10.4	4.2	20.8	16.6	10.4
77.5°	1942.6	370.2	83.2	33.3	20.8	12.5	6.2	2.1	10.4	8.3	4.2
80°	495.0	143.5	54.1	22.9	14.6	6.2	0.0	0.0	2.1	0.0	0.0
82.5°	264.1	60.3	33.3	16.6	8.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	199.7	39.5	18.7	10.4	2.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	77.0	12.5	6.2	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)