

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: P324983

Luminaire Tested: **GAN-SA9D-830-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324983
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-830-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 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: 45125 lumens
Efficiency: N/A
Efficacy: 78.5 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

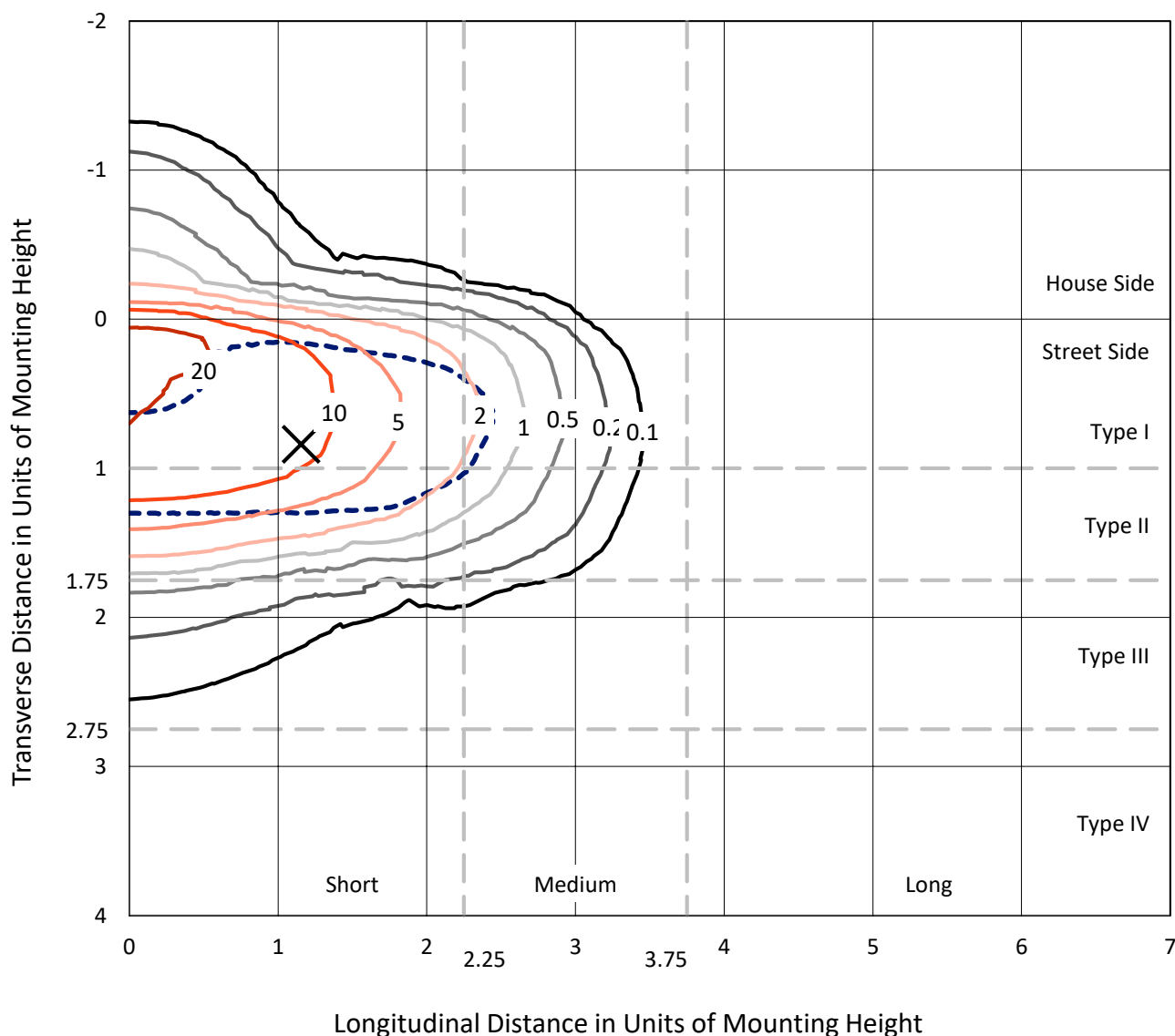
Input Watts (W): 575
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

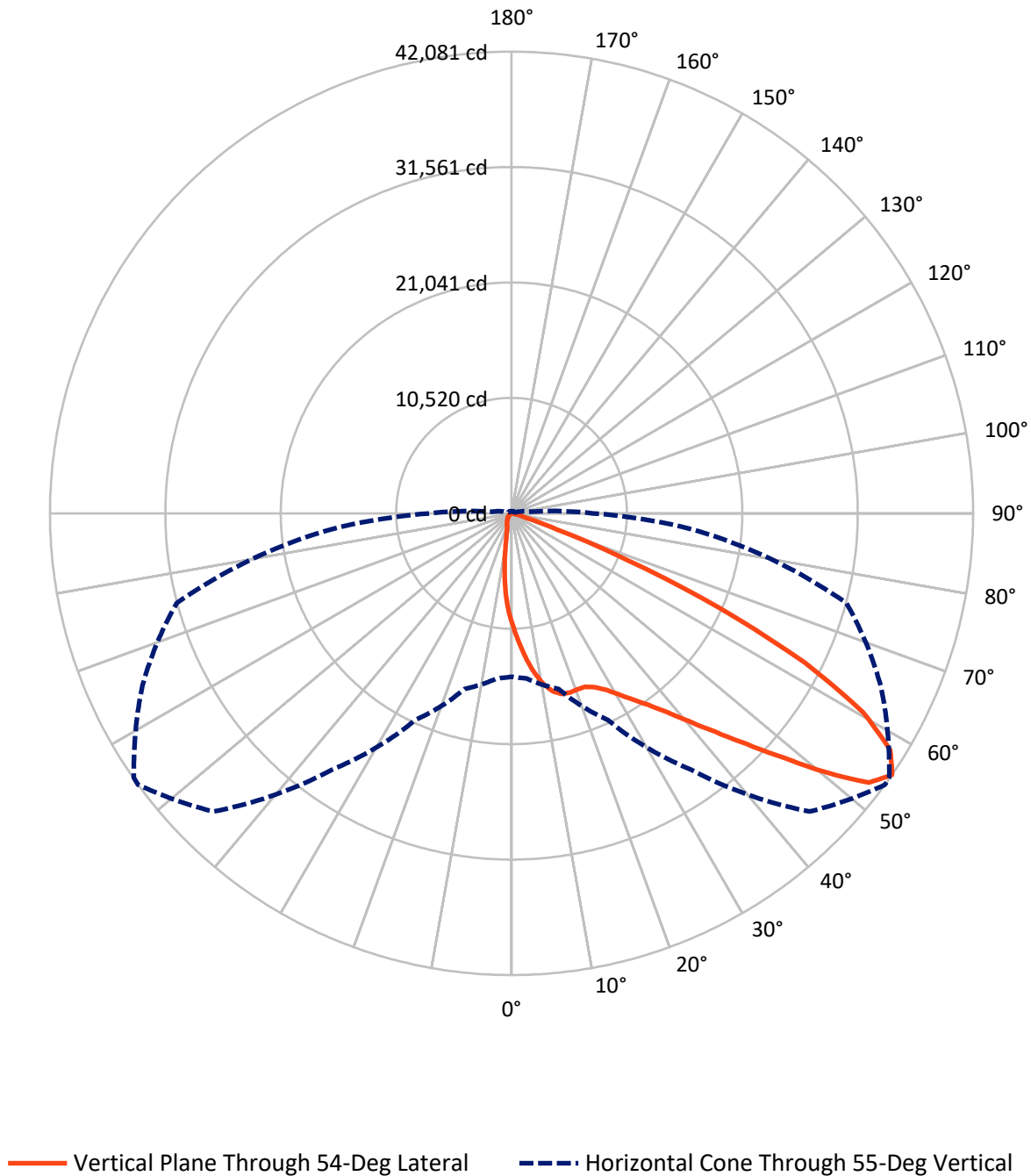
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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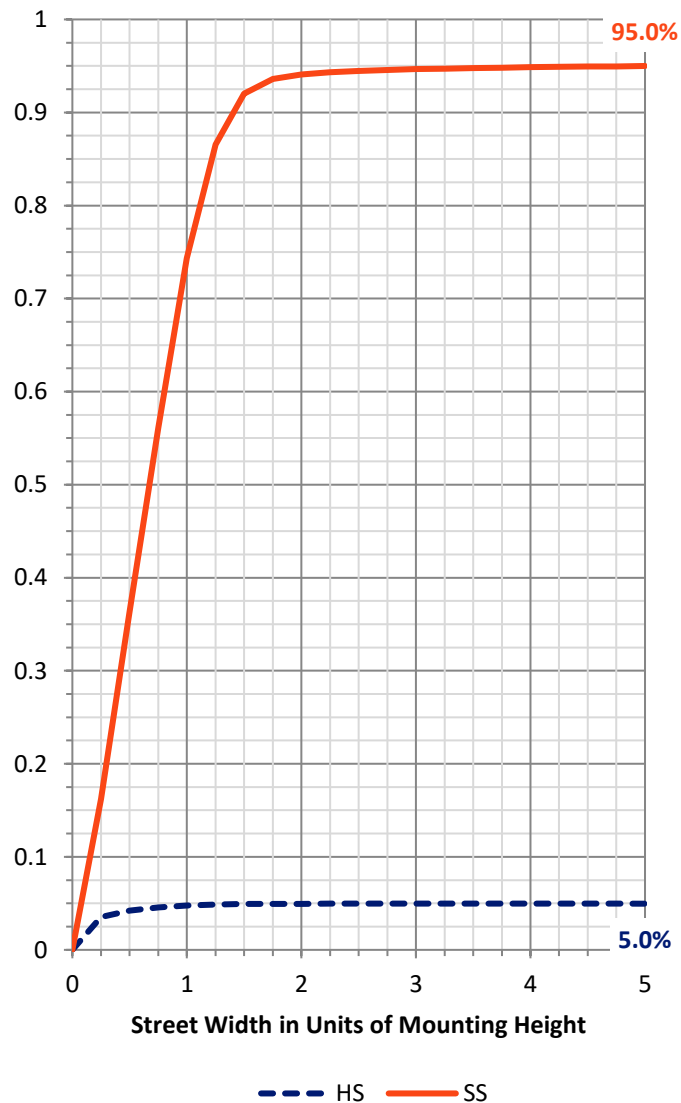
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2251.4	0.0	2251.4
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	42873.6	0.0	42873.6
	% Fixture	95.0	0.0	95.0
Total	Lumens	45125.0	0.0	45125.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	930.7	2.1
10°-20°	2552.4	5.7
20°-30°	4357.8	9.7
30°-40°	6993.5	15.5
40°-50°	11175.6	24.8
50°-60°	11974.9	26.5
60°-70°	6148.3	13.6
70°-80°	931.3	2.1
80°-90°	60.6	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°	45125.0	100.0
0°-180°	45125.0	100.0

Coefficient of Utilization



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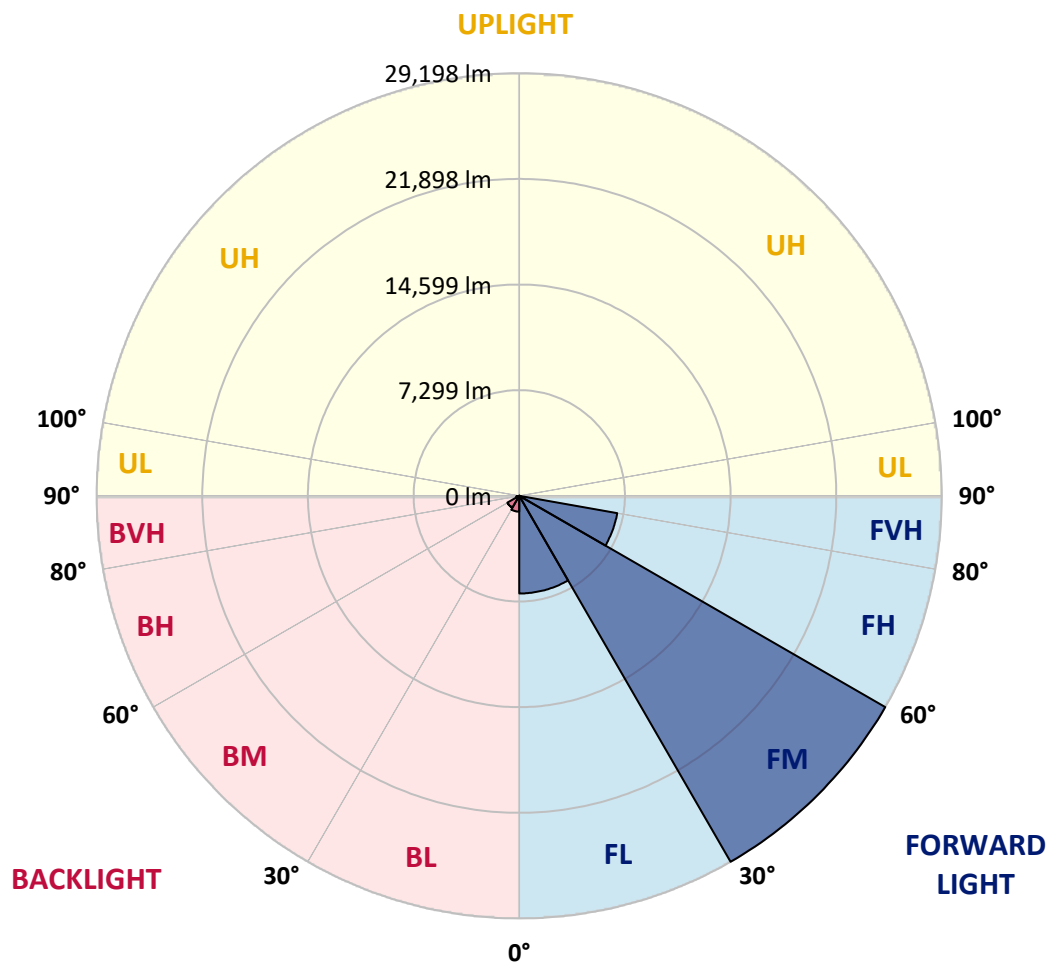
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6745.4	14.9			
FM	(30°-60°)	29197.9	64.7			
FH	(60°-80°)	6872.1	15.2			G3/7500
FVH	(80°-90°)	58.2	0.1			G1/100
BL	(0°-30°)	1095.4	2.4	B3/2500		
BM	(30°-60°)	946.1	2.1	B1/1000		
BH	(60°-80°)	207.5	0.5	B1/500		G1/500
BVH	(80°-90°)	2.4	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-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	10106.2	10106.2	10106.2	10106.2	10106.2	10106.2	10106.2	10106.2	10106.2	10106.2	10106.2
2.5°	12682.4	12493.4	12499.2	12413.5	12099.8	11854.2	11598.9	11538.5	11141.0	10723.9	10322.5
5°	14874.8	14736.4	14703.3	14537.6	14101.1	13639.3	13144.3	13029.3	12251.8	11398.2	10558.3
7.5°	16001.1	16003.1	15975.8	15915.4	15642.6	15194.4	14590.3	14469.4	13411.3	12130.9	10803.8
10°	15673.8	15747.8	15899.8	16100.5	16309.0	16252.5	15798.5	15689.3	14539.6	12906.5	11076.7
12.5°	14909.8	14919.6	15089.1	15418.5	16018.7	16634.5	16642.3	16605.3	15617.2	13717.2	11376.8
15°	14529.8	14566.9	14629.2	14841.6	15410.7	16396.7	17102.2	17154.8	16605.3	14578.6	11696.4
17.5°	14779.3	14831.9	14779.3	14804.6	15133.9	16020.6	17182.1	17316.5	17468.5	15430.2	11998.4
20°	15455.5	15504.2	15410.7	15307.4	15371.7	15911.5	17125.6	17306.8	18144.8	16186.3	12251.8
22.5°	16367.5	16387.0	16244.7	16075.2	16028.4	16281.8	17172.3	17359.4	18686.5	16870.3	12411.6
25°	17371.1	17388.6	17211.3	17016.4	16905.4	17008.6	17556.2	17696.5	19164.0	17523.1	12503.1
27.5°	18464.4	18479.9	18257.8	18018.1	17889.5	17893.4	18189.6	18339.6	19672.6	18267.5	12577.2
30°	19620.0	19612.2	19407.5	19074.3	18910.6	18906.7	19101.6	19253.6	20409.2	19222.4	12678.5
32.5°	20917.8	20902.2	20611.9	20198.7	20013.6	20040.9	20214.3	20302.0	21323.2	20239.7	12859.8
35°	22626.9	22582.1	22143.6	21631.1	21290.0	21280.3	21426.4	21496.6	22488.5	21471.3	13161.8
37.5°	24844.5	24803.6	24209.3	23464.8	22985.4	22806.2	22979.6	23069.2	24150.8	23051.7	13647.1
40°	27031.0	26990.1	26637.4	25955.3	25216.8	24786.1	24922.5	25018.0	26226.2	24969.3	14259.0
42.5°	28539.4	28574.4	28697.2	28753.7	28061.9	27157.7	27220.1	27319.4	28406.8	27019.3	14958.6
45°	28936.9	29012.9	29706.7	31068.8	31328.0	30622.6	29969.7	30024.3	30622.6	29069.4	15658.2
47.5°	27742.3	27882.6	29221.4	31754.8	33949.1	34448.0	33212.5	33140.3	32748.7	30727.8	16155.1
50°	25027.7	25156.3	26890.7	30638.2	34744.2	38099.9	37098.2	36885.8	34613.6	31719.7	16330.5
52.5°	21099.1	21255.0	22663.9	27122.6	33245.6	39729.1	40777.5	40600.1	35981.6	31797.7	16359.7
55°	14900.1	15089.1	16579.9	20787.3	28496.5	38433.1	42081.2	42028.6	37117.7	31591.1	16422.1
57.5°	8373.8	8510.2	10117.9	13325.5	20871.1	33475.5	40719.0	41067.8	37803.7	31232.5	16515.6
60°	3718.2	3755.2	4587.3	6633.5	12218.6	25583.1	36819.6	37408.1	37215.2	30753.1	16673.5
62.5°	2061.8	2030.6	2030.6	2757.5	5310.3	15837.4	30024.3	30996.7	34703.2	30186.1	16681.3
65°	1615.5	1586.3	1502.5	1514.2	2022.8	7029.1	20791.2	22519.7	29932.7	28523.8	16120.0
67.5°	1370.0	1344.6	1260.8	1227.7	1256.9	2319.0	11423.5	13218.3	22712.6	24203.4	13962.8
70°	1157.6	1140.0	1097.1	1056.2	982.2	1145.9	4371.0	5590.9	13995.9	16100.5	9531.3
72.5°	931.5	923.7	939.3	904.2	814.6	763.9	1494.7	1810.4	6286.6	7185.0	3926.7
75°	802.9	799.0	806.8	771.7	670.4	532.0	760.0	830.2	1773.4	1757.8	795.1
77.5°	522.3	528.1	668.4	652.8	576.8	354.7	393.6	424.8	537.9	403.4	241.6
80°	333.2	329.3	339.1	541.8	518.4	270.9	196.8	206.6	259.2	198.8	116.9
82.5°	202.7	198.8	222.2	253.3	261.1	189.0	120.8	122.8	161.7	128.6	62.4
85°	17.5	23.4	134.5	124.7	89.6	58.5	58.5	62.4	85.7	76.0	35.1
87.5°	0.0	0.0	23.4	35.1	19.5	21.4	21.4	23.4	33.1	33.1	17.5
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°	10106.2	10106.2	10106.2	10106.2	10106.2	10106.2	10106.2	10106.2	10106.2	10106.2	10106.2
2.5°	10114.0	9911.3	9502.1	9108.4	8775.2	8453.7	8087.3	7724.8	7555.3	7487.1	7416.9
5°	10131.5	9714.5	8870.7	8021.0	7140.2	6347.1	5670.8	4977.1	4630.2	4478.2	4408.1
7.5°	10154.9	9519.6	8155.5	6729.0	5310.3	4234.6	3295.3	2691.2	2430.1	2389.2	2287.8
10°	10158.8	9283.8	7325.3	5302.5	3560.4	2552.9	1964.3	1652.5	1537.6	1518.1	1484.9
12.5°	10166.6	9005.1	6403.6	3926.7	2373.6	1707.1	1420.6	1317.4	1286.2	1284.2	1284.2
15°	10190.0	8712.8	5446.7	2829.6	1705.2	1352.4	1247.2	1206.3	1194.6	1200.4	1198.5
17.5°	10190.0	8367.9	4507.4	2108.5	1377.8	1216.0	1157.6	1130.3	1126.4	1132.2	1134.2
20°	10115.9	7948.9	3646.1	1640.8	1221.9	1128.3	1075.7	1050.4	1040.6	1044.5	1046.5
22.5°	9938.6	7434.5	2944.6	1358.3	1118.6	1048.4	991.9	952.9	937.3	939.3	939.3
25°	9661.9	6824.5	2303.4	1175.1	1034.8	962.7	896.4	851.6	841.9	839.9	843.8
27.5°	9307.2	6150.2	1833.8	1034.8	935.4	867.2	800.9	763.9	756.1	758.1	760.0
30°	8958.4	5450.6	1446.0	915.9	824.3	760.0	709.3	691.8	691.8	697.7	699.6
32.5°	8638.8	4778.3	1143.9	812.6	724.9	666.5	637.2	635.3	645.0	648.9	650.9
35°	8364.0	4156.7	947.1	732.7	647.0	596.3	586.6	594.4	606.1	613.9	615.8
37.5°	8169.1	3601.3	828.2	666.5	586.6	545.6	543.7	559.3	574.9	592.4	596.3
40°	8087.3	3131.6	746.4	608.0	537.9	506.7	500.8	522.3	551.5	576.8	580.7
42.5°	8019.1	2747.7	676.2	551.5	498.9	454.1	452.1	479.4	514.5	539.8	545.6
45°	7960.6	2439.8	611.9	491.1	448.2	389.7	395.6	430.7	458.0	485.2	491.1
47.5°	7839.8	2186.5	541.8	426.8	370.3	333.2	344.9	376.1	397.5	438.5	444.3
50°	7623.5	1979.9	469.6	348.8	302.1	288.4	306.0	327.4	354.7	389.7	393.6
52.5°	7477.3	1824.0	407.3	292.3	249.4	253.3	270.9	278.7	294.3	307.9	304.0
55°	7393.5	1738.3	356.6	253.3	212.4	224.1	228.0	218.3	210.5	196.8	191.0
57.5°	7383.8	1660.3	317.6	220.2	187.1	192.9	179.3	146.2	118.9	103.3	99.4
60°	7368.2	1564.8	286.5	185.1	165.6	157.8	128.6	79.9	56.5	52.6	52.6
62.5°	7198.7	1416.7	263.1	155.9	140.3	118.9	74.1	37.0	31.2	33.1	33.1
65°	6658.9	1210.2	239.7	126.7	111.1	85.7	37.0	21.4	11.7	13.6	13.6
67.5°	5661.1	964.6	214.4	97.4	83.8	54.6	21.4	9.7	0.0	0.0	0.0
70°	3790.3	598.3	181.2	68.2	54.6	33.1	15.6	1.9	0.0	0.0	0.0
72.5°	1453.8	323.5	146.2	40.9	35.1	23.4	9.7	0.0	0.0	0.0	0.0
75°	327.4	212.4	101.3	29.2	25.3	15.6	3.9	0.0	0.0	0.0	0.0
77.5°	124.7	154.0	58.5	19.5	17.5	9.7	0.0	0.0	0.0	0.0	0.0
80°	60.4	91.6	27.3	11.7	9.7	3.9	0.0	0.0	0.0	0.0	0.0
82.5°	31.2	35.1	11.7	5.8	3.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	17.5	17.5	5.8	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.7	5.8	1.9	1.9	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)