

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: P324918

Luminaire Tested: **GAN-SA4B-827-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324918
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-SA4B-827-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 800mA 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: 13872 lumens
Efficiency: N/A
Efficacy: 81.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

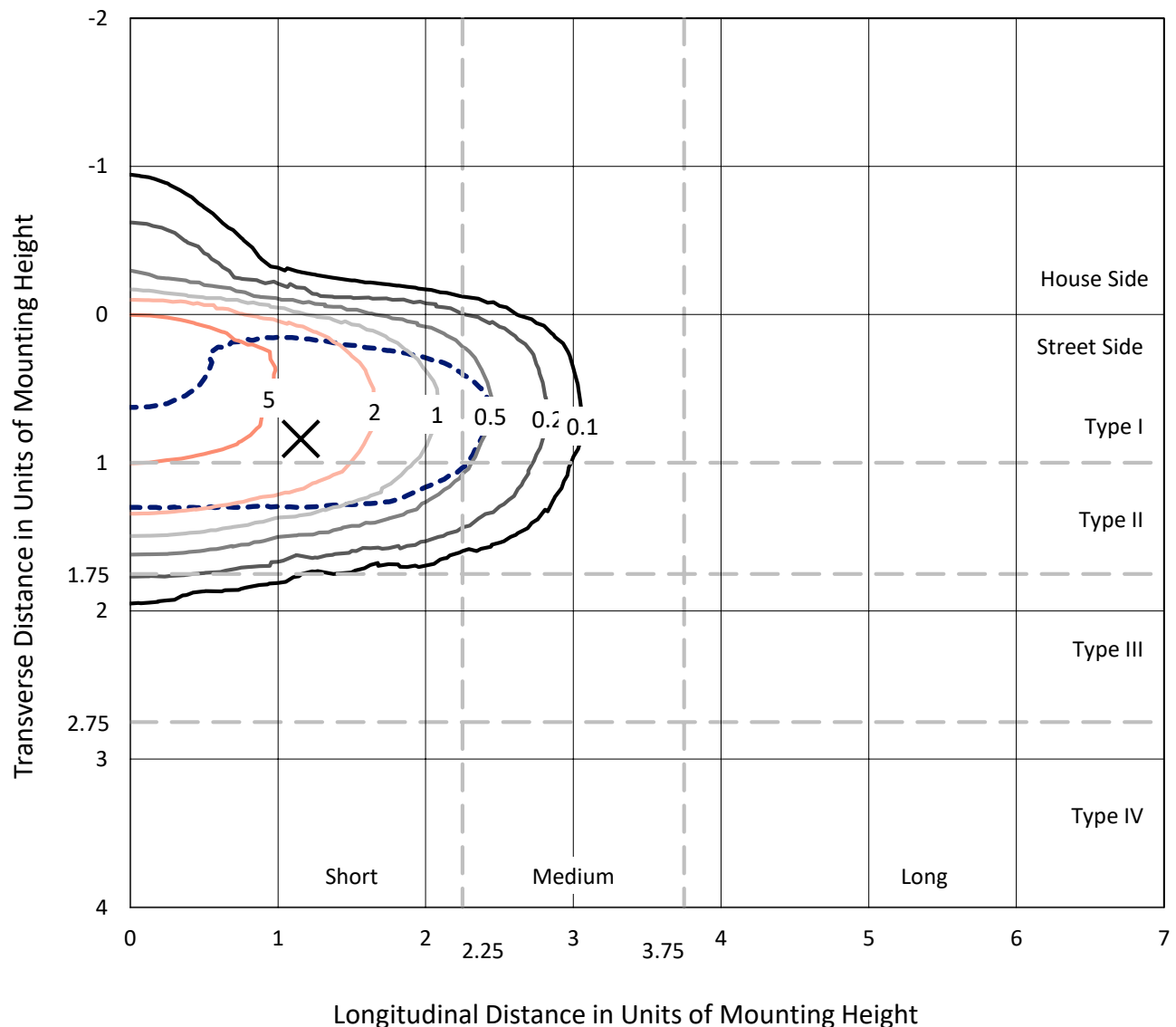
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

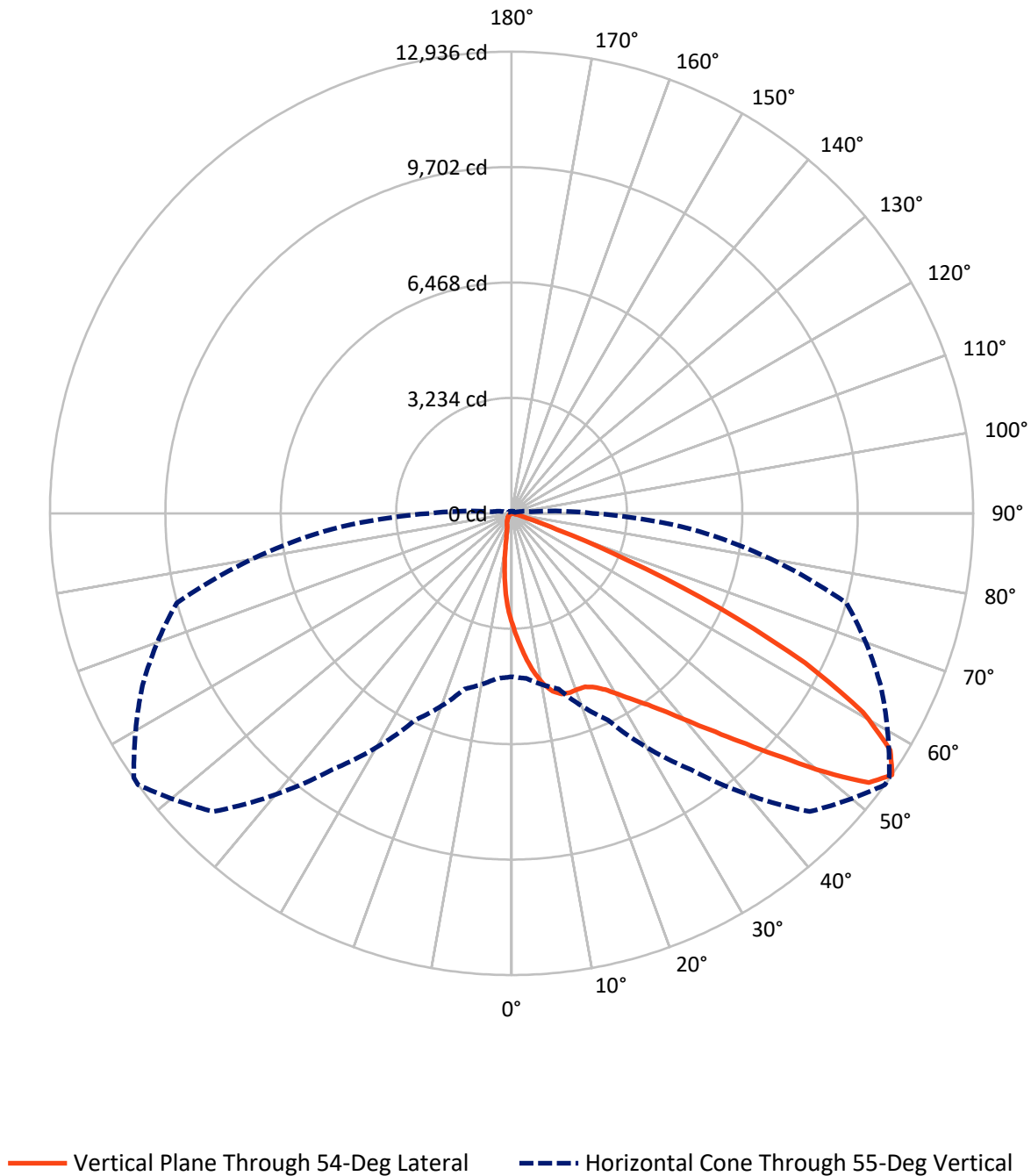
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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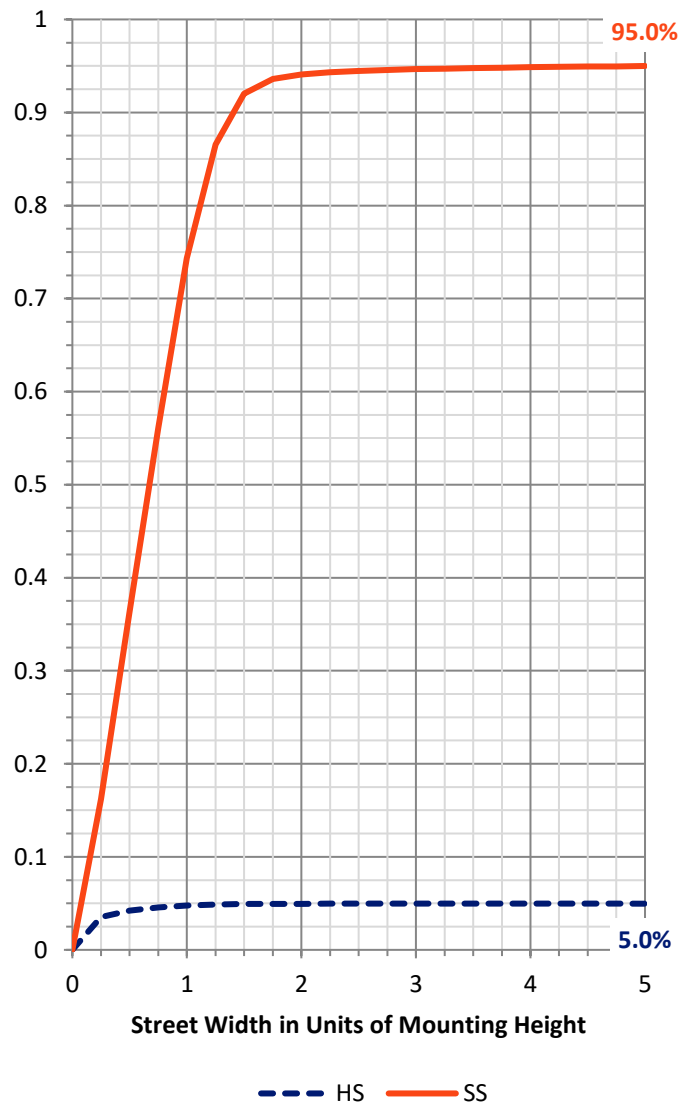
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	692.1	0.0	692.1
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	13179.9	0.0	13179.9
	% Fixture	95.0	0.0	95.0
Total	Lumens	13872.0	0.0	13872.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	286.1	2.1
10°-20°	784.6	5.7
20°-30°	1339.6	9.7
30°-40°	2149.9	15.5
40°-50°	3435.5	24.8
50°-60°	3681.2	26.5
60°-70°	1890.1	13.6
70°-80°	286.3	2.1
80°-90°	18.6	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°	13872.0	100.0
0°-180°	13872.0	100.0

Coefficient of Utilization



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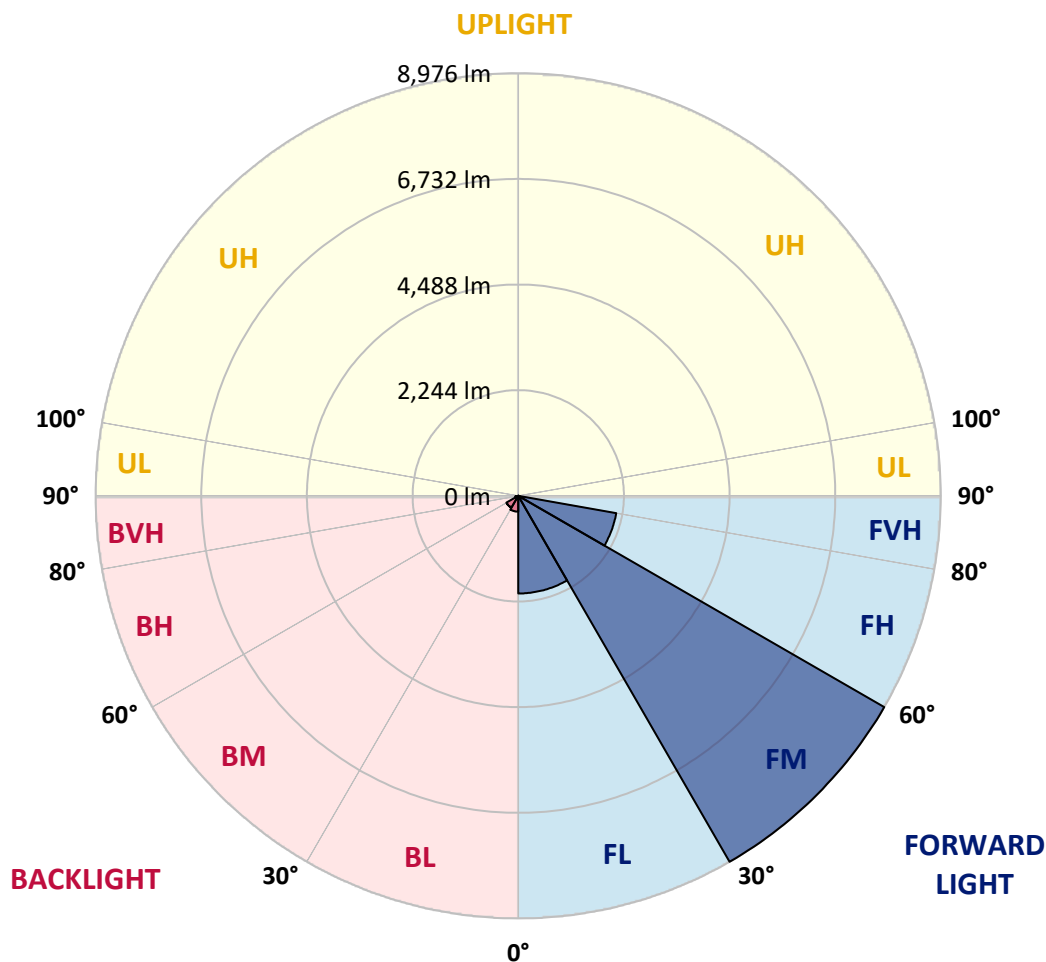
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2073.6	14.9			
FM	(30°-60°)	8975.8	64.7			
FH	(60°-80°)	2112.6	15.2			G2/5000
FVH	(80°-90°)	17.9	0.1			G1/100
BL	(0°-30°)	336.7	2.4	B1/500		
BM	(30°-60°)	290.8	2.1	B1/1000		
BH	(60°-80°)	63.8	0.5	B0/110		G0/110
BVH	(80°-90°)	0.8	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3106.8	3106.8	3106.8	3106.8	3106.8	3106.8	3106.8	3106.8	3106.8	3106.8	3106.8
2.5°	3898.7	3840.6	3842.4	3816.1	3719.6	3644.1	3565.7	3547.1	3424.9	3296.7	3173.3
5°	4572.7	4530.2	4520.0	4469.1	4334.9	4192.9	4040.7	4005.4	3766.3	3504.0	3245.8
7.5°	4919.0	4919.6	4911.2	4892.6	4808.7	4670.9	4485.2	4448.1	4122.8	3729.2	3321.2
10°	4818.3	4841.1	4887.8	4949.5	5013.6	4996.2	4856.7	4823.1	4469.7	3967.6	3405.1
12.5°	4583.5	4586.5	4638.6	4739.8	4924.3	5113.7	5116.0	5104.7	4800.9	4216.8	3497.4
15°	4466.7	4478.0	4497.2	4562.5	4737.4	5040.6	5257.4	5273.6	5104.7	4481.6	3595.6
17.5°	4543.3	4559.5	4543.3	4551.1	4652.4	4924.9	5282.0	5323.3	5370.1	4743.4	3688.5
20°	4751.2	4766.2	4737.4	4705.7	4725.5	4891.4	5264.6	5320.3	5577.9	4975.9	3766.3
22.5°	5031.6	5037.6	4993.8	4941.7	4927.3	5005.2	5279.0	5336.5	5744.5	5186.1	3815.5
25°	5340.1	5345.5	5291.0	5231.1	5196.9	5228.7	5397.0	5440.1	5891.2	5386.8	3843.6
27.5°	5676.2	5681.0	5612.7	5539.0	5499.5	5500.7	5591.7	5637.8	6047.6	5615.7	3866.4
30°	6031.4	6029.0	5966.1	5863.7	5813.4	5812.2	5872.1	5918.8	6274.0	5909.2	3897.5
32.5°	6430.4	6425.6	6336.4	6209.3	6152.4	6160.8	6214.1	6241.1	6555.0	6221.9	3953.3
35°	6955.8	6942.0	6807.2	6649.7	6544.8	6541.8	6586.8	6608.3	6913.3	6600.5	4046.1
37.5°	7637.5	7624.9	7442.2	7213.4	7066.0	7010.9	7064.2	7091.8	7424.3	7086.4	4195.3
40°	8309.7	8297.1	8188.7	7979.0	7752.0	7619.6	7661.5	7690.8	8062.3	7675.9	4383.4
42.5°	8773.4	8784.1	8821.9	8839.3	8626.6	8348.6	8367.8	8398.3	8732.6	8306.1	4598.5
45°	8895.6	8918.9	9132.2	9551.0	9630.6	9413.8	9213.1	9229.9	9413.8	8936.3	4813.5
47.5°	8528.3	8571.5	8983.0	9761.8	10436.4	10589.7	10209.9	10187.8	10067.4	9446.1	4966.3
50°	7693.8	7733.4	8266.6	9418.6	10680.8	11712.4	11404.5	11339.2	10640.7	9751.0	5020.2
52.5°	6486.1	6534.0	6967.2	8337.8	10220.1	12213.2	12535.5	12481.0	11061.2	9775.0	5029.2
55°	4580.5	4638.6	5096.9	6390.3	8760.2	11814.8	12936.3	12920.1	11410.5	9711.5	5048.4
57.5°	2574.2	2616.1	3110.4	4096.4	6416.0	10290.8	12517.5	12624.8	11621.3	9601.3	5077.1
60°	1143.0	1154.4	1410.2	2039.2	3756.2	7864.6	11318.8	11499.7	11440.4	9453.9	5125.6
62.5°	633.8	624.2	624.2	847.7	1632.5	4868.6	9229.9	9528.8	10668.2	9279.6	5128.0
65°	496.6	487.6	461.9	465.5	621.8	2160.8	6391.5	6922.8	9201.7	8768.6	4955.5
67.5°	421.1	413.4	387.6	377.4	386.4	712.9	3511.7	4063.5	6982.1	7440.4	4292.3
70°	355.8	350.5	337.3	324.7	301.9	352.3	1343.7	1718.7	4302.5	4949.5	2930.0
72.5°	286.4	284.0	288.8	278.0	250.4	234.8	459.5	556.5	1932.6	2208.8	1207.1
75°	246.8	245.6	248.0	237.2	206.1	163.5	233.6	255.2	545.2	540.4	244.4
77.5°	160.6	162.3	205.5	200.7	177.3	109.0	121.0	130.6	165.3	124.0	74.3
80°	102.4	101.2	104.2	166.5	159.4	83.3	60.5	63.5	79.7	61.1	35.9
82.5°	62.3	61.1	68.3	77.9	80.3	58.1	37.1	37.7	49.7	39.5	19.2
85°	5.4	7.2	41.3	38.3	27.6	18.0	18.0	19.2	26.4	23.4	10.8
87.5°	0.0	0.0	7.2	10.8	6.0	6.6	6.6	7.2	10.2	10.2	5.4
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°	3106.8	3106.8	3106.8	3106.8	3106.8	3106.8	3106.8	3106.8	3106.8	3106.8	3106.8
2.5°	3109.2	3046.9	2921.1	2800.0	2697.6	2598.8	2486.1	2374.7	2322.6	2301.6	2280.1
5°	3114.6	2986.4	2727.0	2465.8	2195.0	1951.2	1743.3	1530.0	1423.4	1376.7	1355.1
7.5°	3121.7	2926.5	2507.1	2068.6	1632.5	1301.8	1013.0	827.3	747.0	734.5	703.3
10°	3122.9	2854.0	2251.9	1630.1	1094.5	784.8	603.9	508.0	472.7	466.7	456.5
12.5°	3125.3	2768.3	1968.5	1207.1	729.7	524.8	436.7	405.0	395.4	394.8	394.8
15°	3132.5	2678.4	1674.4	869.8	524.2	415.8	383.4	370.8	367.2	369.0	368.4
17.5°	3132.5	2572.4	1385.6	648.2	423.5	373.8	355.8	347.5	346.3	348.1	348.7
20°	3109.8	2443.6	1120.9	504.4	375.6	346.9	330.7	322.9	319.9	321.1	321.7
22.5°	3055.3	2285.4	905.2	417.6	343.9	322.3	304.9	292.9	288.2	288.8	288.8
25°	2970.2	2097.9	708.1	361.2	318.1	295.9	275.6	261.8	258.8	258.2	259.4
27.5°	2861.2	1890.7	563.7	318.1	287.6	266.6	246.2	234.8	232.4	233.0	233.6
30°	2753.9	1675.6	444.5	281.6	253.4	233.6	218.1	212.7	212.7	214.5	215.1
32.5°	2655.7	1468.9	351.7	249.8	222.9	204.9	195.9	195.3	198.3	199.5	200.1
35°	2571.2	1277.8	291.1	225.2	198.9	183.3	180.3	182.7	186.3	188.7	189.3
37.5°	2511.3	1107.1	254.6	204.9	180.3	167.7	167.1	171.9	176.7	182.1	183.3
40°	2486.1	962.7	229.4	186.9	165.3	155.8	154.0	160.6	169.5	177.3	178.5
42.5°	2465.2	844.7	207.9	169.5	153.4	139.6	139.0	147.4	158.2	165.9	167.7
45°	2447.2	750.0	188.1	151.0	137.8	119.8	121.6	132.4	140.8	149.2	151.0
47.5°	2410.1	672.2	166.5	131.2	113.8	102.4	106.0	115.6	122.2	134.8	136.6
50°	2343.6	608.7	144.4	107.2	92.9	88.7	94.1	100.6	109.0	119.8	121.0
52.5°	2298.6	560.7	125.2	89.9	76.7	77.9	83.3	85.7	90.5	94.7	93.5
55°	2272.9	534.4	109.6	77.9	65.3	68.9	70.1	67.1	64.7	60.5	58.7
57.5°	2269.9	510.4	97.6	67.7	57.5	59.3	55.1	44.9	36.5	31.8	30.6
60°	2265.1	481.1	88.1	56.9	50.9	48.5	39.5	24.6	17.4	16.2	16.2
62.5°	2213.0	435.5	80.9	47.9	43.1	36.5	22.8	11.4	9.6	10.2	10.2
65°	2047.0	372.0	73.7	38.9	34.1	26.4	11.4	6.6	3.6	4.2	4.2
67.5°	1740.3	296.5	65.9	30.0	25.8	16.8	6.6	3.0	0.0	0.0	0.0
70°	1165.2	183.9	55.7	21.0	16.8	10.2	4.8	0.6	0.0	0.0	0.0
72.5°	446.9	99.4	44.9	12.6	10.8	7.2	3.0	0.0	0.0	0.0	0.0
75°	100.6	65.3	31.2	9.0	7.8	4.8	1.2	0.0	0.0	0.0	0.0
77.5°	38.3	47.3	18.0	6.0	5.4	3.0	0.0	0.0	0.0	0.0	0.0
80°	18.6	28.2	8.4	3.6	3.0	1.2	0.0	0.0	0.0	0.0	0.0
82.5°	9.6	10.8	3.6	1.8	1.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.4	5.4	1.8	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.0	1.8	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)