

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: P322983

Luminaire Tested: **GAN-SA9D-760-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322983
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9D-760-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50275 lumens
Efficiency: N/A
Efficacy: 87.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

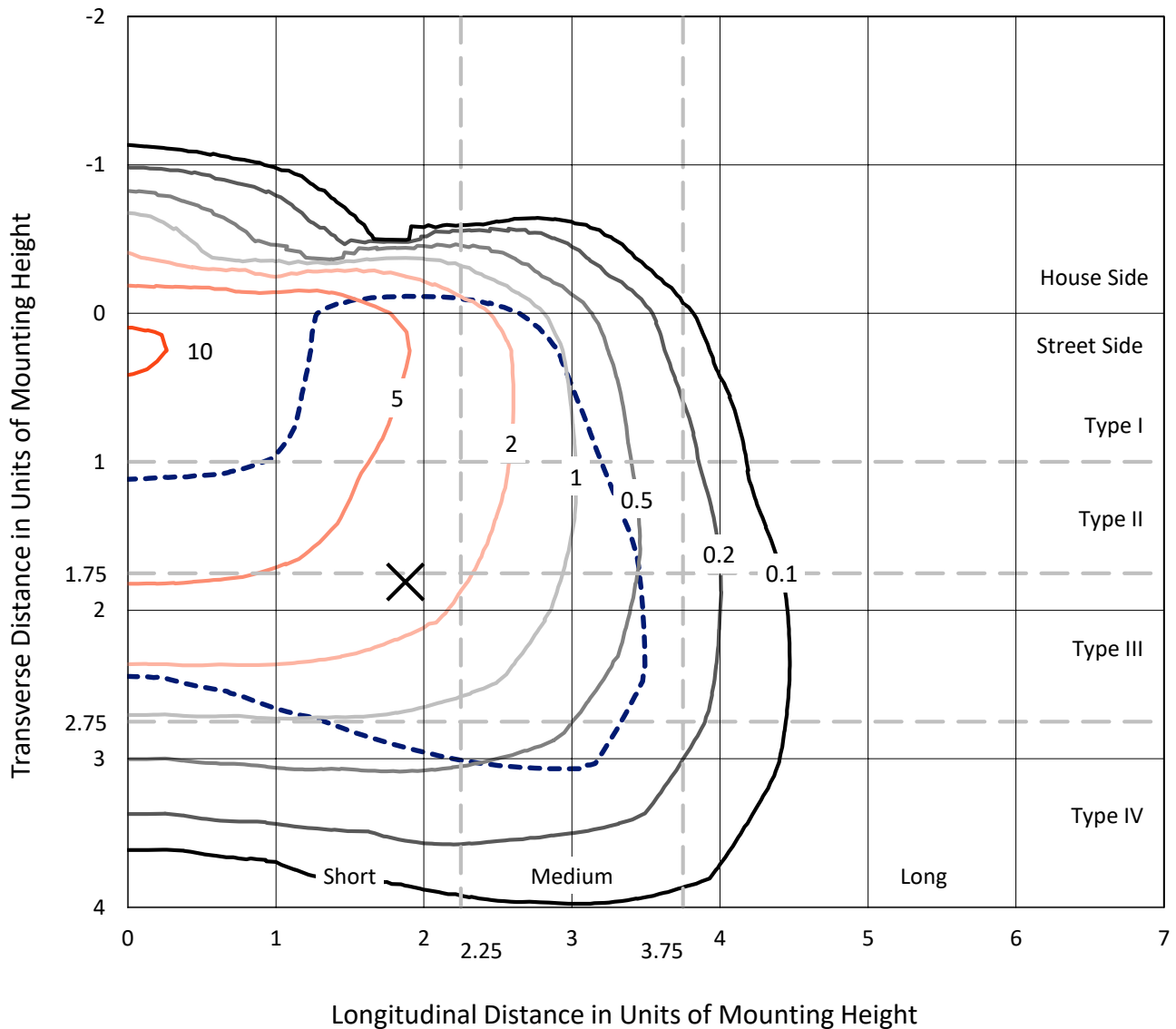
Input Watts (W): 575
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

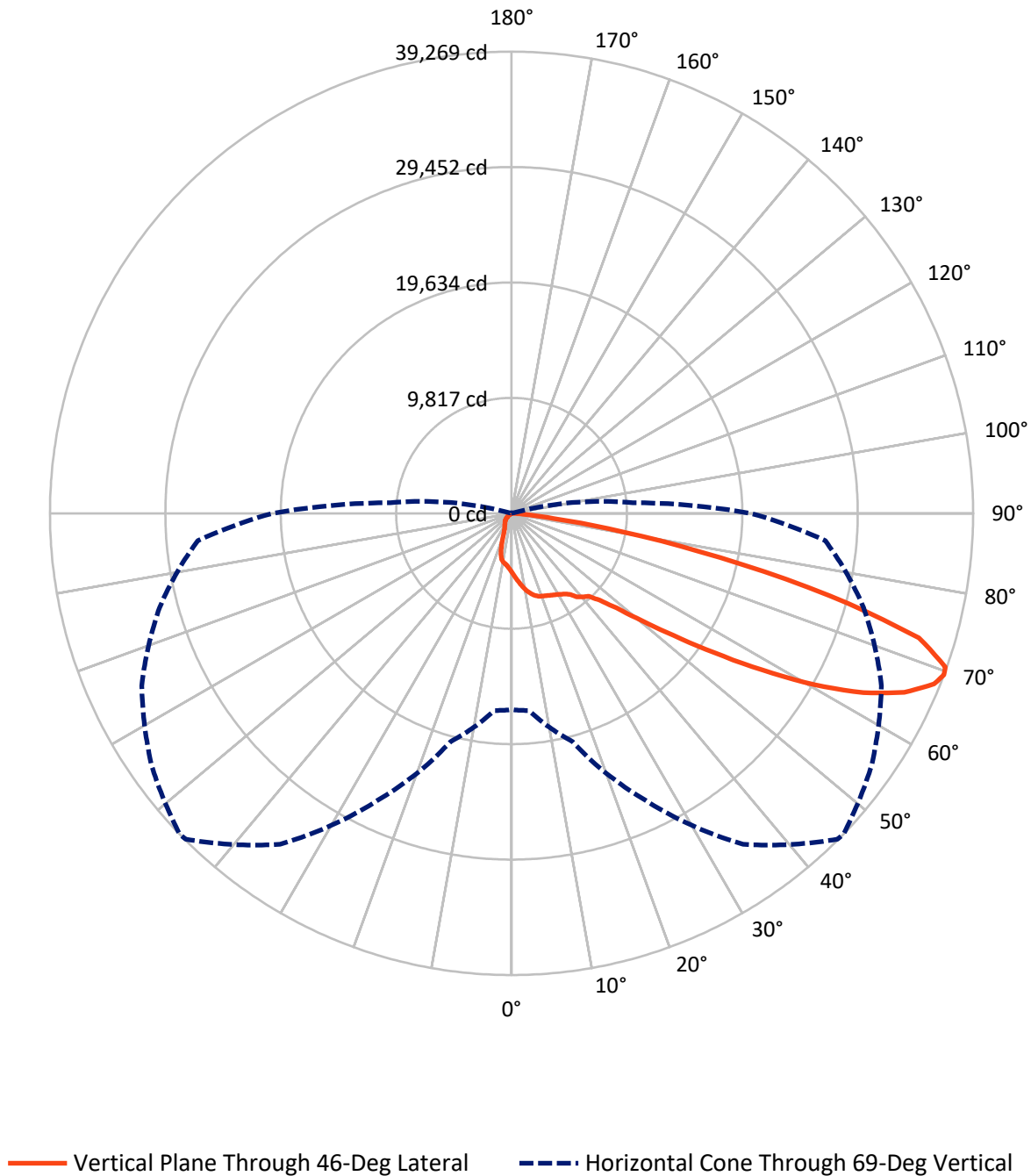
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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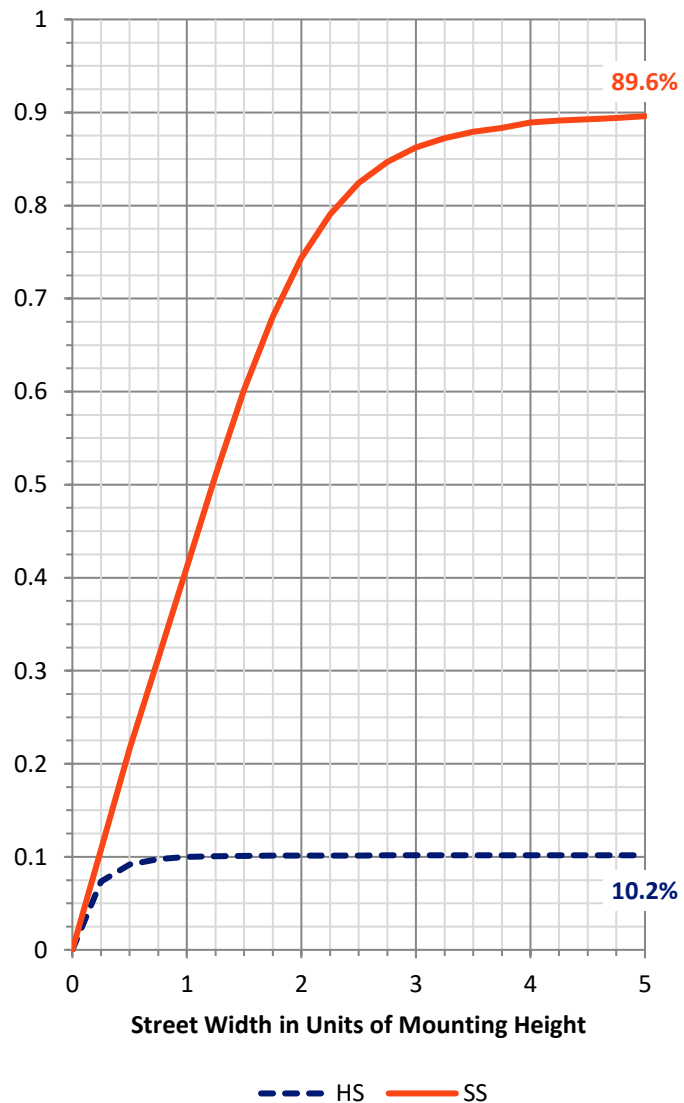
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5159.6	0.0	5159.6
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	45115.4	0.0	45115.4
	% Fixture	89.7	0.0	89.7
Total	Lumens	50275.0	0.0	50275.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	501.4	1.0
10°-20°	1521.1	3.0
20°-30°	2392.2	4.8
30°-40°	3430.4	6.8
40°-50°	5929.0	11.8
50°-60°	11713.4	23.3
60°-70°	16370.5	32.6
70°-80°	7908.7	15.7
80°-90°	508.3	1.0
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°	50275.0	100.0
0°-180°	50275.0	100.0

Coefficient of Utilization



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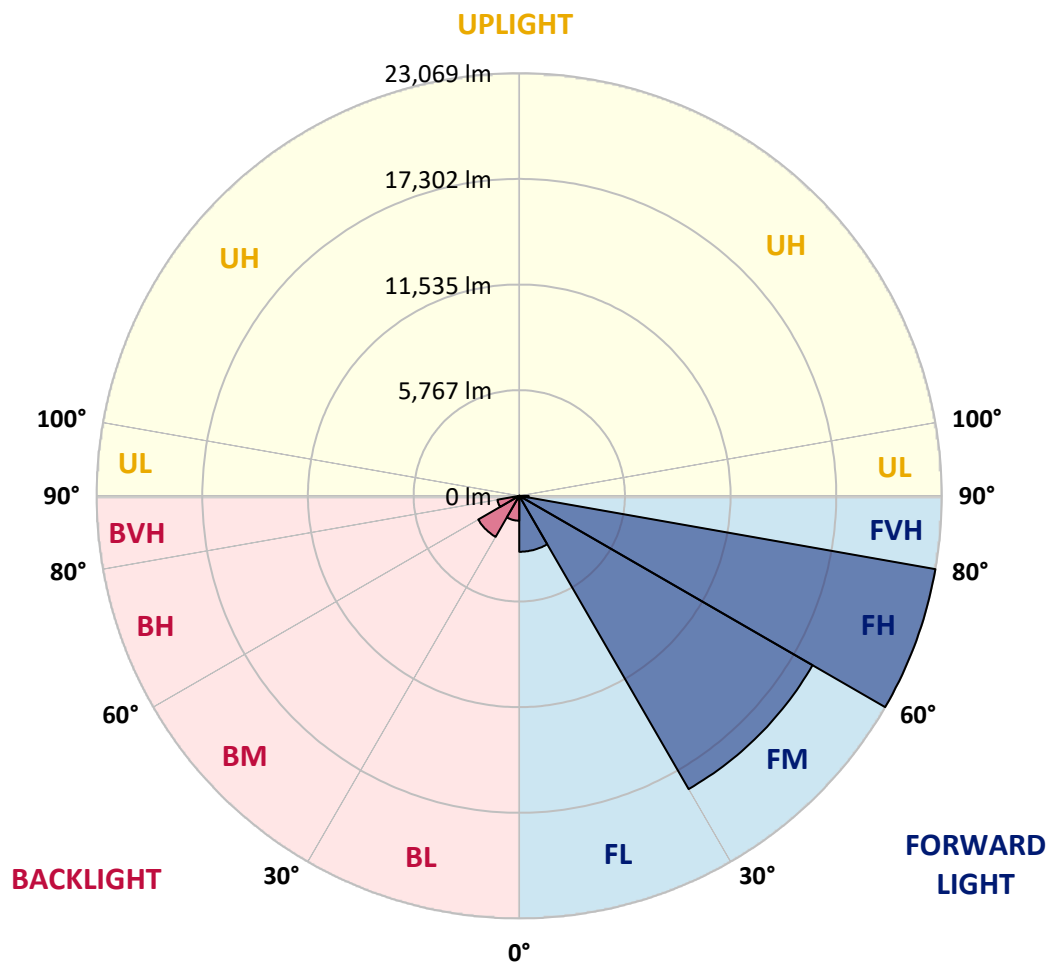
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3054.8	6.1			
FM	(30°-60°)	18487.2	36.8			
FH	(60°-80°)	23069.3	45.9			G5
FVH	(80°-90°)	504.1	1.0			G4/750
BL	(0°-30°)	1359.9	2.7	B3/2500		
BM	(30°-60°)	2585.6	5.1	B3/5000		
BH	(60°-80°)	1209.8	2.4	B3/2500		G3/2500
BVH	(80°-90°)	4.3	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	5037.4	5037.4	5037.4	5037.4	5037.4	5037.4	5037.4	5037.4	5037.4	5037.4	5037.4
2.5°	5596.0	5589.0	5556.0	5541.8	5461.7	5414.5	5395.7	5336.7	5251.9	5167.0	5072.7
5°	6232.5	6230.1	6168.8	6109.9	5959.0	5817.6	5791.7	5655.0	5464.0	5284.9	5105.7
7.5°	6883.1	6852.4	6791.1	6678.0	6458.8	6232.5	6211.3	6018.0	5746.9	5487.6	5230.7
10°	7434.7	7415.8	7335.7	7163.6	6906.6	6649.7	6623.8	6385.7	6079.3	5761.0	5433.4
12.5°	7863.7	7849.5	7743.4	7528.9	7255.5	6989.1	6953.8	6741.6	6414.0	6058.0	5671.5
15°	8125.3	8118.2	7988.6	7759.9	7491.2	7260.2	7229.6	7043.4	6739.3	6366.8	5930.8
17.5°	8186.6	8189.0	8054.6	7823.6	7602.0	7437.0	7413.4	7272.0	7017.4	6647.3	6190.0
20°	8049.9	8078.2	7958.0	7757.6	7620.9	7533.7	7514.8	7429.9	7215.4	6866.6	6397.5
22.5°	7856.6	7870.7	7788.2	7653.9	7597.3	7613.8	7604.4	7557.2	7375.7	7055.1	6602.6
25°	7738.7	7738.7	7689.2	7576.1	7613.8	7715.2	7717.5	7708.1	7564.3	7286.1	6852.4
27.5°	7734.0	7719.9	7663.3	7578.4	7682.2	7837.7	7847.2	7910.8	7821.2	7566.7	7163.6
30°	7922.6	7906.1	7785.9	7675.1	7807.1	7974.5	7998.0	8137.1	8092.3	7870.7	7510.1
32.5°	8363.4	8304.5	8038.1	7856.6	7955.6	8156.0	8186.6	8408.2	8478.9	8245.5	7844.8
35°	8966.8	8780.6	8396.4	8200.7	8210.2	8420.0	8448.3	8773.6	8983.3	8589.7	8104.1
37.5°	9798.9	9707.0	9082.3	8559.0	8601.5	8919.7	9002.2	9355.8	9296.9	8778.3	8398.8
40°	11623.4	11479.6	10814.9	9563.2	8976.3	9325.1	9351.1	9539.6	9544.4	9204.9	9011.6
42.5°	14107.9	14049.0	13348.9	11385.3	9714.1	9596.2	9643.4	9961.6	10317.5	10105.4	10095.9
45°	16858.8	16828.2	16085.6	13803.8	11206.2	10484.9	10543.8	10970.5	11651.7	11698.9	11998.2
47.5°	19072.2	19058.1	18631.4	16502.9	13490.3	11991.1	12010.0	12462.6	13660.1	14251.7	14730.2
50°	21090.0	21158.4	20821.3	19423.4	16601.9	14350.7	14305.9	14607.7	16531.1	17500.0	18094.0
52.5°	23895.1	23991.7	23046.5	22148.4	19866.6	17278.4	17243.0	17558.9	19982.1	20708.1	20814.2
55°	26372.5	26207.5	25460.3	25201.0	23847.9	20894.3	20884.9	21163.1	23319.9	23628.7	23824.4
57.5°	27466.3	27402.6	27763.3	28357.3	28017.8	25168.0	25146.8	24934.6	26306.5	26339.5	26940.6
60°	28156.9	28234.7	29340.2	31171.8	32018.0	29766.9	29630.2	28336.1	29158.7	29085.7	29729.2
62.5°	27638.3	27791.6	29781.0	32833.6	35011.7	33781.2	33587.9	31452.3	31596.1	31343.9	31942.6
65°	24885.1	25123.2	28383.2	32520.1	36496.7	36918.7	36723.0	34203.2	33531.4	33116.5	32784.1
67.5°	20206.0	20347.5	23751.3	29792.8	35827.3	38790.3	38750.2	36614.6	34992.8	32817.1	30238.3
69°	16698.5	16837.6	20114.1	26921.7	34354.0	39191.0	39268.8	37387.8	34714.7	30997.4	26792.1
70°	14143.3	14291.8	17344.4	24460.8	32645.1	39004.8	39143.9	37314.7	33918.0	28890.0	23767.8
72.5°	7418.2	7545.4	10678.2	16851.7	26613.0	35815.5	36237.5	34160.8	28750.9	20981.6	14053.7
75°	2331.3	2404.4	4169.9	8808.9	18221.3	27848.1	27944.8	26796.8	20415.8	11540.9	5853.0
77.5°	888.7	867.5	1388.4	3245.9	9212.0	17535.3	18127.0	16745.7	10713.5	4080.3	1350.7
80°	478.5	480.9	721.3	1343.6	3941.3	9011.6	9511.4	8115.9	3806.9	1272.9	311.2
82.5°	207.4	216.9	405.4	711.9	1810.3	3323.7	3573.5	2974.8	1454.4	855.7	115.5
85°	44.8	49.5	195.6	386.6	737.8	933.5	978.2	964.1	926.4	664.7	44.8
87.5°	0.0	0.0	87.2	139.1	186.2	212.1	186.2	242.8	511.5	447.9	23.6
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°	5037.4	5037.4	5037.4	5037.4	5037.4	5037.4	5037.4	5037.4	5037.4	5037.4	5037.4
2.5°	5042.1	4999.7	4926.6	4846.4	4789.9	4730.9	4683.8	4662.6	4639.0	4622.5	4643.7
5°	5032.7	4950.2	4808.7	4672.0	4573.0	4492.9	4426.8	4400.9	4375.0	4356.1	4353.8
7.5°	5115.2	4999.7	4782.8	4582.4	4429.2	4320.8	4231.2	4193.5	4162.8	4148.7	4136.9
10°	5273.1	5124.6	4834.6	4573.0	4375.0	4191.1	3997.8	3849.3	3752.7	3707.9	3691.4
12.5°	5478.2	5291.9	4933.6	4622.5	4334.9	3981.3	3571.2	3217.6	2988.9	2913.5	2868.7
15°	5718.6	5487.6	5063.3	4686.1	4188.8	3542.9	2847.5	2385.5	2173.4	2130.9	2083.8
17.5°	5949.6	5695.0	5218.9	4697.9	3868.2	2831.0	2086.1	1772.6	1690.1	1718.4	1725.5
20°	6152.3	5900.1	5372.1	4594.2	3286.0	2123.9	1614.7	1536.9	1567.5	1621.8	1631.2
22.5°	6357.4	6098.1	5513.5	4320.8	2541.1	1612.3	1454.4	1473.3	1503.9	1558.1	1567.5
25°	6607.3	6338.5	5645.5	3818.7	1907.0	1371.9	1381.3	1409.6	1440.3	1489.8	1494.5
27.5°	6894.9	6642.6	5732.7	3165.7	1414.3	1261.1	1291.8	1334.2	1364.8	1412.0	1421.4
30°	7276.7	7043.4	5761.0	2489.2	1185.7	1162.1	1176.2	1228.1	1272.9	1315.3	1322.4
32.5°	7635.0	7439.4	5666.7	1878.7	1098.5	1070.2	1070.2	1100.8	1152.7	1192.8	1202.2
35°	7965.0	7837.7	5365.0	1374.3	1032.5	985.3	961.7	961.7	994.7	1027.7	1037.2
37.5°	8401.1	8396.4	4877.1	1096.1	968.8	914.6	865.1	827.4	815.6	822.7	827.4
40°	9148.3	9155.4	4240.6	983.0	914.6	841.5	766.1	697.7	634.1	612.9	610.5
42.5°	10315.2	10209.1	3573.5	928.7	867.5	766.1	652.9	561.0	462.0	431.4	429.0
45°	12167.9	11538.6	2866.4	879.2	818.0	681.2	539.8	414.9	334.7	311.2	311.2
47.5°	14867.0	13285.3	2220.5	825.0	752.0	584.6	407.8	299.4	245.2	233.4	235.7
50°	17657.9	14996.6	1701.9	756.7	671.8	483.2	301.7	216.9	186.2	186.2	188.6
52.5°	20133.0	16250.6	1327.1	683.6	572.8	379.5	228.6	169.7	155.6	153.2	155.6
55°	22450.1	17059.2	1016.0	598.7	454.9	282.9	174.4	139.1	129.6	124.9	122.6
57.5°	24684.7	17459.9	761.4	483.2	330.0	205.1	139.1	117.9	108.4	101.4	99.0
60°	26172.2	17134.6	523.3	355.9	228.6	148.5	115.5	101.4	89.6	82.5	80.1
62.5°	27011.3	16245.9	337.1	256.9	162.6	110.8	91.9	84.9	68.4	61.3	61.3
65°	26671.9	14779.7	235.7	183.9	117.9	82.5	68.4	68.4	49.5	40.1	37.7
67.5°	23635.8	12486.2	179.1	136.7	84.9	61.3	51.9	58.9	30.6	18.9	18.9
69°	20335.7	10348.2	153.2	113.1	70.7	49.5	44.8	54.2	21.2	14.1	11.8
70°	17674.4	8926.8	139.1	99.0	58.9	42.4	40.1	51.9	21.2	11.8	9.4
72.5°	10574.5	4978.4	106.1	70.7	37.7	33.0	33.0	58.9	21.2	11.8	9.4
75°	4273.6	1753.8	77.8	49.5	28.3	28.3	40.1	75.4	18.9	9.4	7.1
77.5°	968.8	384.2	44.8	30.6	18.9	28.3	47.1	58.9	11.8	4.7	0.0
80°	235.7	94.3	28.3	18.9	11.8	21.2	35.4	33.0	2.4	0.0	0.0
82.5°	77.8	33.0	11.8	9.4	2.4	7.1	16.5	9.4	0.0	0.0	0.0
85°	33.0	18.9	4.7	2.4	0.0	0.0	2.4	0.0	0.0	0.0	0.0
87.5°	21.2	7.1	0.0	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)