

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: P322974

Luminaire Tested: **GAN-SA0C-760-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322974
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-SA0C-760-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5700K, 1050mA 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: 50742 lumens
Efficiency: N/A
Efficacy: 90.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

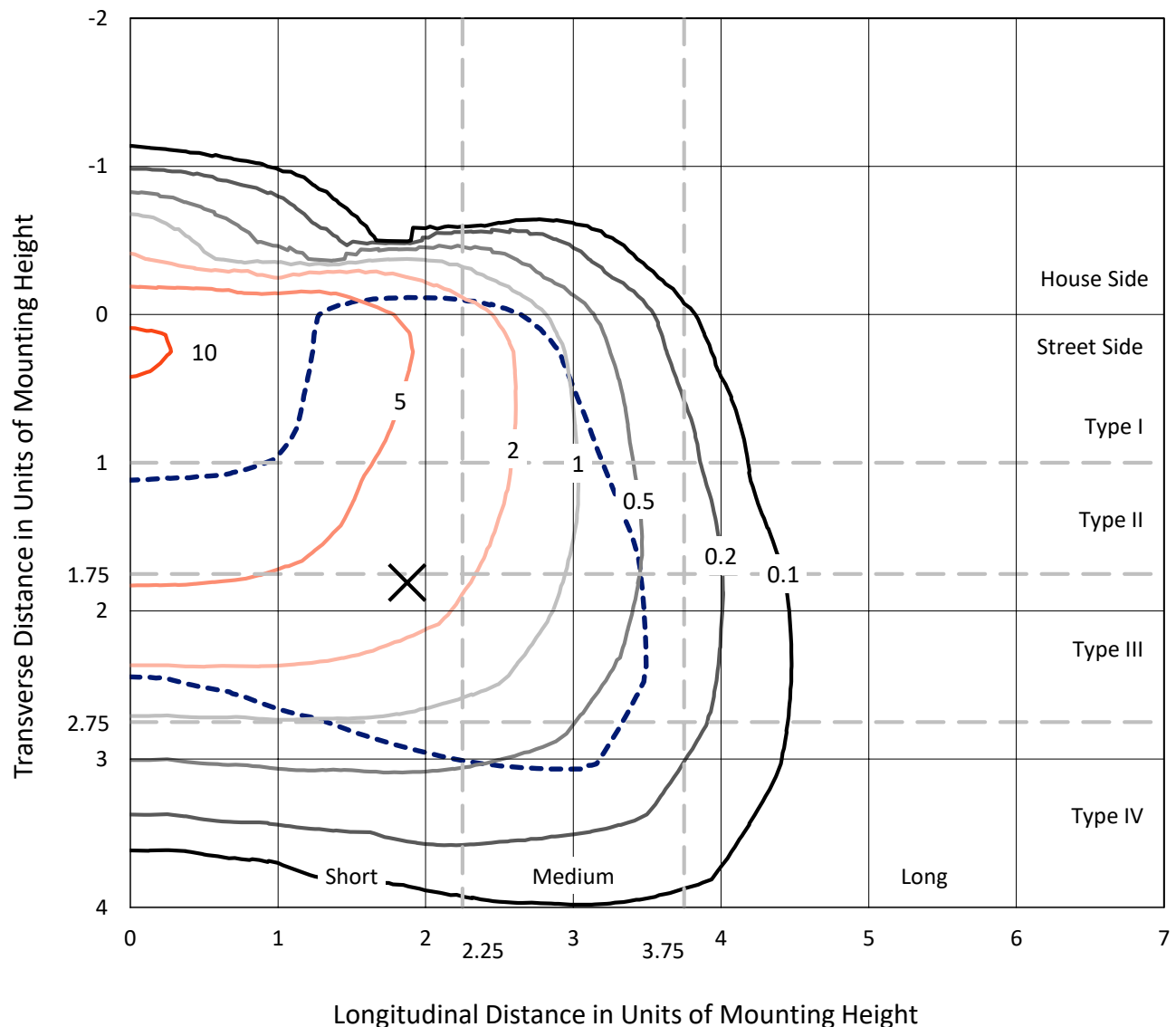
Input Watts (W): 558
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

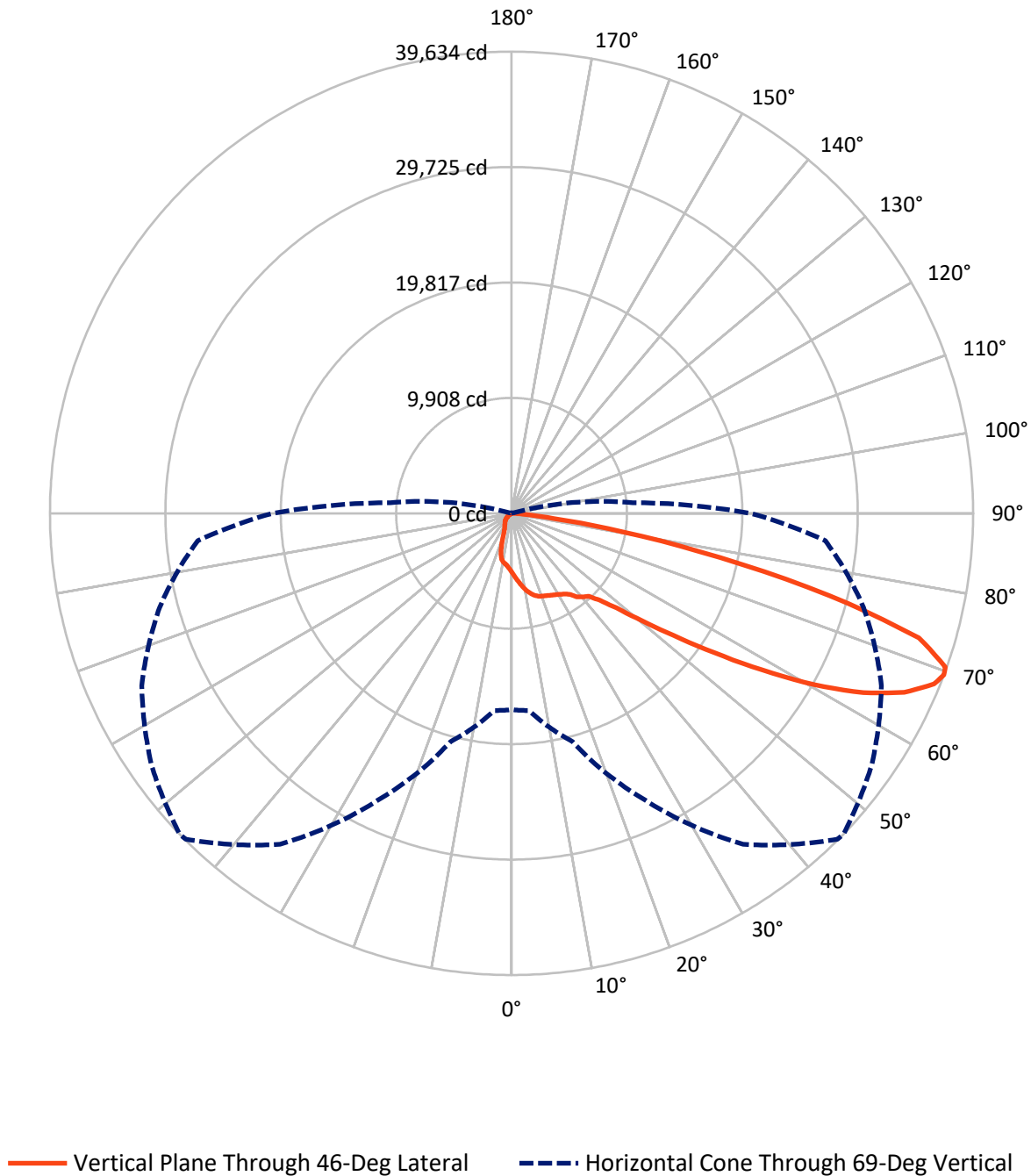
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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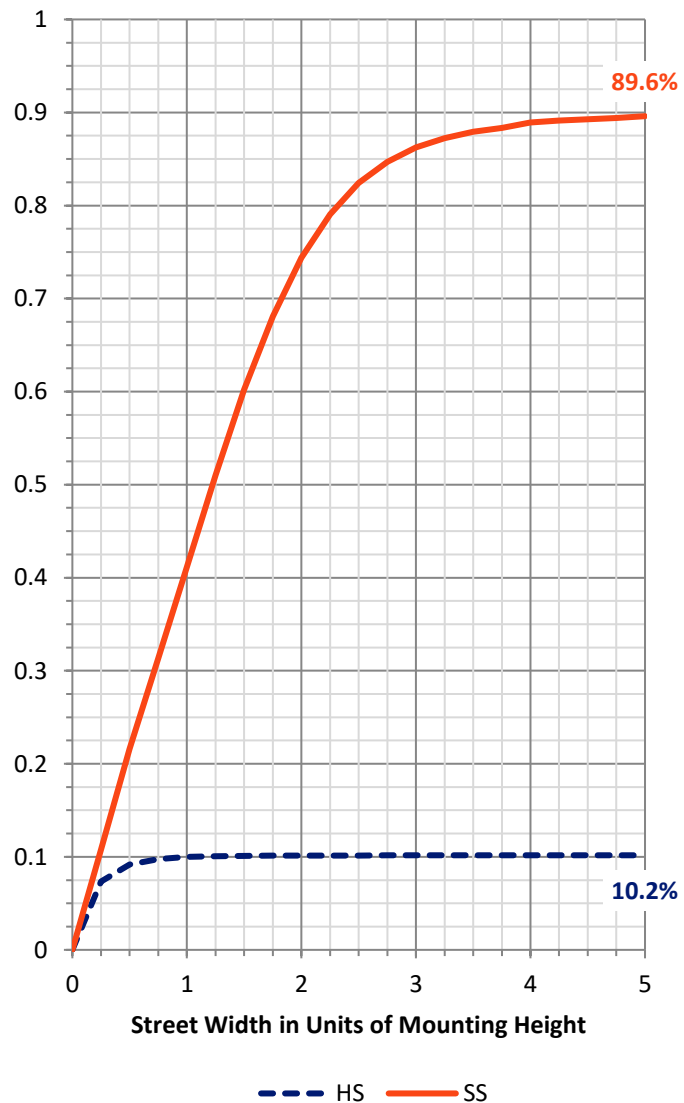
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5207.5	0.0	5207.5
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	45534.5	0.0	45534.5
	% Fixture	89.7	0.0	89.7
Total	Lumens	50742.0	0.0	50742.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	506.1	1.0
10°-20°	1535.2	3.0
20°-30°	2414.4	4.8
30°-40°	3462.3	6.8
40°-50°	5984.1	11.8
50°-60°	11822.2	23.3
60°-70°	16522.5	32.6
70°-80°	7982.2	15.7
80°-90°	513.0	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°	50742.0	100.0
0°-180°	50742.0	100.0

Coefficient of Utilization



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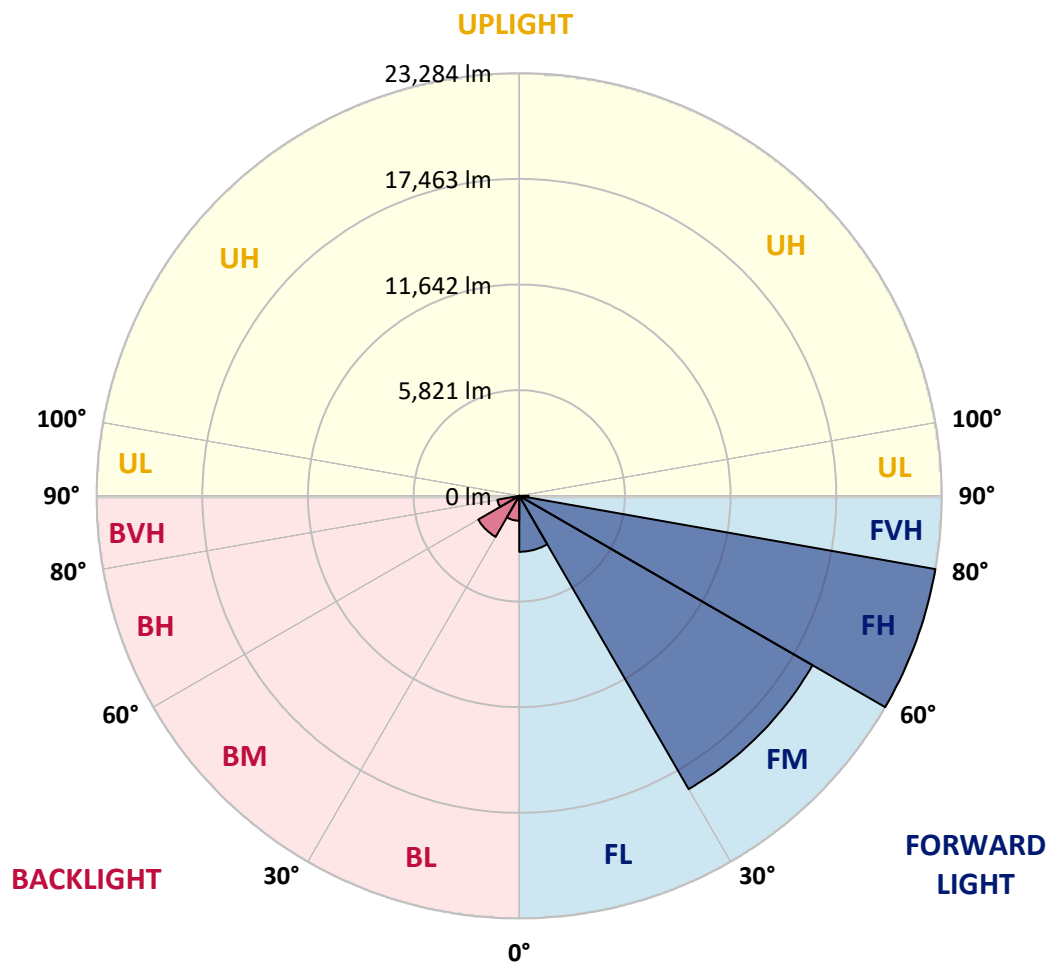
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3083.2	6.1			
FM	(30°-60°)	18659.0	36.8			
FH	(60°-80°)	23283.6	45.9			G5
FVH	(80°-90°)	508.7	1.0			G4/750
BL	(0°-30°)	1372.5	2.7	B3/2500		
BM	(30°-60°)	2609.6	5.1	B3/5000		
BH	(60°-80°)	1221.1	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°	5084.2	5084.2	5084.2	5084.2	5084.2	5084.2	5084.2	5084.2	5084.2	5084.2	5084.2
2.5°	5648.0	5640.9	5607.6	5593.3	5512.4	5464.8	5445.8	5386.3	5300.7	5215.0	5119.8
5°	6290.4	6288.0	6226.1	6166.7	6014.4	5871.6	5845.5	5707.5	5514.8	5334.0	5153.2
7.5°	6947.0	6916.1	6854.2	6740.0	6518.8	6290.4	6269.0	6073.9	5800.3	5538.6	5279.2
10°	7503.7	7484.7	7403.8	7230.1	6970.8	6711.5	6685.3	6445.0	6135.7	5814.5	5483.8
12.5°	7936.7	7922.4	7815.4	7598.9	7322.9	7054.1	7018.4	6804.3	6473.6	6114.3	5724.1
15°	8200.8	8193.7	8062.8	7832.0	7560.8	7327.7	7296.7	7108.8	6801.9	6426.0	5985.8
17.5°	8262.7	8265.0	8129.4	7896.3	7672.6	7506.1	7482.3	7339.6	7082.6	6709.1	6247.5
20°	8124.7	8153.2	8031.9	7829.7	7691.7	7603.6	7584.6	7499.0	7282.5	6930.3	6456.9
22.5°	7929.6	7943.8	7860.6	7725.0	7667.9	7684.5	7675.0	7627.4	7444.2	7120.7	6663.9
25°	7810.6	7810.6	7760.7	7646.5	7684.5	7786.8	7789.2	7779.7	7634.6	7353.8	6916.1
27.5°	7805.9	7791.6	7734.5	7648.8	7753.5	7910.5	7920.1	7984.3	7893.9	7636.9	7230.1
30°	7996.2	7979.5	7858.2	7746.4	7879.6	8048.5	8072.3	8212.7	8167.5	7943.8	7579.8
32.5°	8441.1	8381.6	8112.8	7929.6	8029.5	8231.7	8262.7	8486.3	8557.7	8322.1	7917.7
35°	9050.1	8862.2	8474.4	8276.9	8286.4	8498.2	8526.7	8855.0	9066.8	8669.5	8179.4
37.5°	9890.0	9797.2	9166.7	8638.5	8681.4	9002.6	9085.8	9442.7	9383.2	8859.8	8476.8
40°	11731.4	11586.3	10915.4	9652.1	9059.7	9411.8	9437.9	9628.3	9633.0	9290.4	9095.3
42.5°	14239.0	14179.5	13472.9	11491.1	9804.3	9685.4	9732.9	10054.1	10413.4	10199.2	10189.7
45°	17015.4	16984.5	16235.0	13932.1	11310.3	10582.3	10641.8	11072.4	11759.9	11807.5	12109.7
47.5°	19249.4	19235.1	18804.5	16656.2	13615.6	12102.5	12121.6	12578.4	13786.9	14384.1	14867.1
50°	21285.9	21354.9	21014.7	19603.9	16756.1	14484.0	14438.8	14743.3	16684.7	17662.5	18262.1
52.5°	24117.0	24214.6	23260.6	22354.1	20051.1	17438.9	17403.2	17722.0	20167.7	20900.5	21007.5
55°	26617.5	26450.9	25696.8	25435.1	24069.5	21088.4	21078.9	21359.7	23536.5	23848.2	24045.7
57.5°	27721.4	27657.2	28021.2	28620.7	28278.1	25401.8	25380.3	25166.2	26550.9	26584.2	27190.9
60°	28418.5	28497.0	29612.8	31461.4	32315.5	30043.4	29905.4	28599.3	29429.6	29355.8	30005.3
62.5°	27895.1	28049.7	30057.7	33138.6	35336.9	34095.0	33899.9	31744.5	31889.6	31635.0	32239.3
65°	25116.3	25356.6	28646.9	32822.2	36835.8	37261.6	37064.2	34520.9	33842.8	33424.1	33088.7
67.5°	20393.7	20536.5	23971.9	30069.6	36160.1	39150.6	39110.2	36954.7	35317.9	33122.0	30519.2
69°	16853.6	16994.0	20300.9	27171.8	34673.2	39555.1	39633.6	37735.1	35037.2	31285.3	27041.0
70°	14274.7	14424.5	17505.5	24688.0	32948.3	39367.1	39507.5	37661.3	34233.0	29158.4	23988.6
72.5°	7487.1	7615.5	10777.4	17008.3	26860.2	36148.2	36574.1	34478.1	29018.0	21176.5	14184.3
75°	2352.9	2426.7	4208.6	8890.7	18390.5	28106.8	28204.4	27045.7	20605.5	11648.1	5907.3
77.5°	896.9	875.5	1401.3	3276.0	9297.6	17698.2	18295.4	16901.2	10813.1	4118.2	1363.2
80°	483.0	485.3	728.0	1356.1	3977.9	9095.3	9599.7	8191.3	3842.3	1284.7	314.0
82.5°	209.4	218.9	409.2	718.5	1827.2	3354.5	3606.7	3002.4	1467.9	863.6	116.6
85°	45.2	50.0	197.5	390.2	744.7	942.1	987.3	973.1	935.0	670.9	45.2
87.5°	0.0	0.0	88.0	140.4	187.9	214.1	187.9	245.0	516.3	452.0	23.8
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°	5084.2	5084.2	5084.2	5084.2	5084.2	5084.2	5084.2	5084.2	5084.2	5084.2	5084.2
2.5°	5088.9	5046.1	4972.3	4891.5	4834.4	4774.9	4727.3	4705.9	4682.1	4665.4	4686.8
5°	5079.4	4996.1	4853.4	4715.4	4615.5	4534.6	4468.0	4441.8	4415.6	4396.6	4394.2
7.5°	5162.7	5046.1	4827.2	4625.0	4470.3	4360.9	4270.5	4232.4	4201.5	4187.2	4175.3
10°	5322.1	5172.2	4879.6	4615.5	4415.6	4230.1	4035.0	3885.1	3787.5	3742.3	3725.7
12.5°	5529.1	5341.1	4979.5	4665.4	4375.2	4018.3	3604.4	3247.5	3016.7	2940.6	2895.4
15°	5771.7	5538.6	5110.3	4729.7	4227.7	3575.8	2874.0	2407.7	2193.5	2150.7	2103.1
17.5°	6004.9	5747.9	5267.4	4741.6	3904.1	2857.3	2105.5	1789.1	1705.8	1734.4	1741.5
20°	6209.5	5954.9	5422.0	4636.9	3316.5	2143.6	1629.7	1551.2	1582.1	1636.8	1646.3
22.5°	6416.5	6154.8	5564.7	4360.9	2564.7	1627.3	1467.9	1486.9	1517.9	1572.6	1582.1
25°	6668.6	6397.4	5698.0	3854.2	1924.7	1384.6	1394.2	1422.7	1453.6	1503.6	1508.4
27.5°	6958.9	6704.3	5786.0	3195.1	1427.5	1272.8	1303.8	1346.6	1377.5	1425.1	1434.6
30°	7344.3	7108.8	5814.5	2512.3	1196.7	1172.9	1187.2	1239.5	1284.7	1327.5	1334.7
32.5°	7705.9	7508.5	5719.4	1896.2	1108.7	1080.1	1080.1	1111.0	1163.4	1203.8	1213.3
35°	8039.0	7910.5	5414.9	1387.0	1042.1	994.5	970.7	970.7	1004.0	1037.3	1046.8
37.5°	8479.1	8474.4	4922.4	1106.3	977.8	923.1	873.1	835.1	823.2	830.3	835.1
40°	9233.3	9240.5	4280.0	992.1	923.1	849.3	773.2	704.2	640.0	618.6	616.2
42.5°	10411.0	10303.9	3606.7	937.4	875.5	773.2	659.0	566.2	466.3	435.4	433.0
45°	12281.0	11645.7	2893.0	887.4	825.6	687.6	544.8	418.7	337.8	314.0	314.0
47.5°	15005.0	13408.7	2241.1	832.7	758.9	590.0	411.6	302.1	247.4	235.5	237.9
50°	17821.9	15135.9	1717.7	763.7	678.0	487.7	304.5	218.9	187.9	187.9	190.3
52.5°	20320.0	16401.6	1339.4	689.9	578.1	383.0	230.8	171.3	157.0	154.6	157.0
55°	22658.6	17217.6	1025.4	604.3	459.2	285.5	176.1	140.4	130.9	126.1	123.7
57.5°	24914.0	17622.1	768.5	487.7	333.1	207.0	140.4	119.0	109.4	102.3	99.9
60°	26415.3	17293.8	528.2	359.2	230.8	149.9	116.6	102.3	90.4	83.3	80.9
62.5°	27262.2	16396.8	340.2	259.3	164.2	111.8	92.8	85.6	69.0	61.9	61.9
65°	26919.6	14917.0	237.9	185.6	119.0	83.3	69.0	69.0	50.0	40.4	38.1
67.5°	23855.3	12602.1	180.8	138.0	85.6	61.9	52.3	59.5	30.9	19.0	19.0
69°	20524.6	10444.3	154.6	114.2	71.4	50.0	45.2	54.7	21.4	14.3	11.9
70°	17838.6	9009.7	140.4	99.9	59.5	42.8	40.4	52.3	21.4	11.9	9.5
72.5°	10672.7	5024.7	107.1	71.4	38.1	33.3	33.3	59.5	21.4	11.9	9.5
75°	4313.3	1770.1	78.5	50.0	28.5	28.5	40.4	76.1	19.0	9.5	7.1
77.5°	977.8	387.8	45.2	30.9	19.0	28.5	47.6	59.5	11.9	4.8	0.0
80°	237.9	95.2	28.5	19.0	11.9	21.4	35.7	33.3	2.4	0.0	0.0
82.5°	78.5	33.3	11.9	9.5	2.4	7.1	16.7	9.5	0.0	0.0	0.0
85°	33.3	19.0	4.8	2.4	0.0	0.0	2.4	0.0	0.0	0.0	0.0
87.5°	21.4	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)