

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: P322414

Luminaire Tested: **GAN-SA0C-830-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322414
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0C-830-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40541 lumens
Efficiency: N/A
Efficacy: 72.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - 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

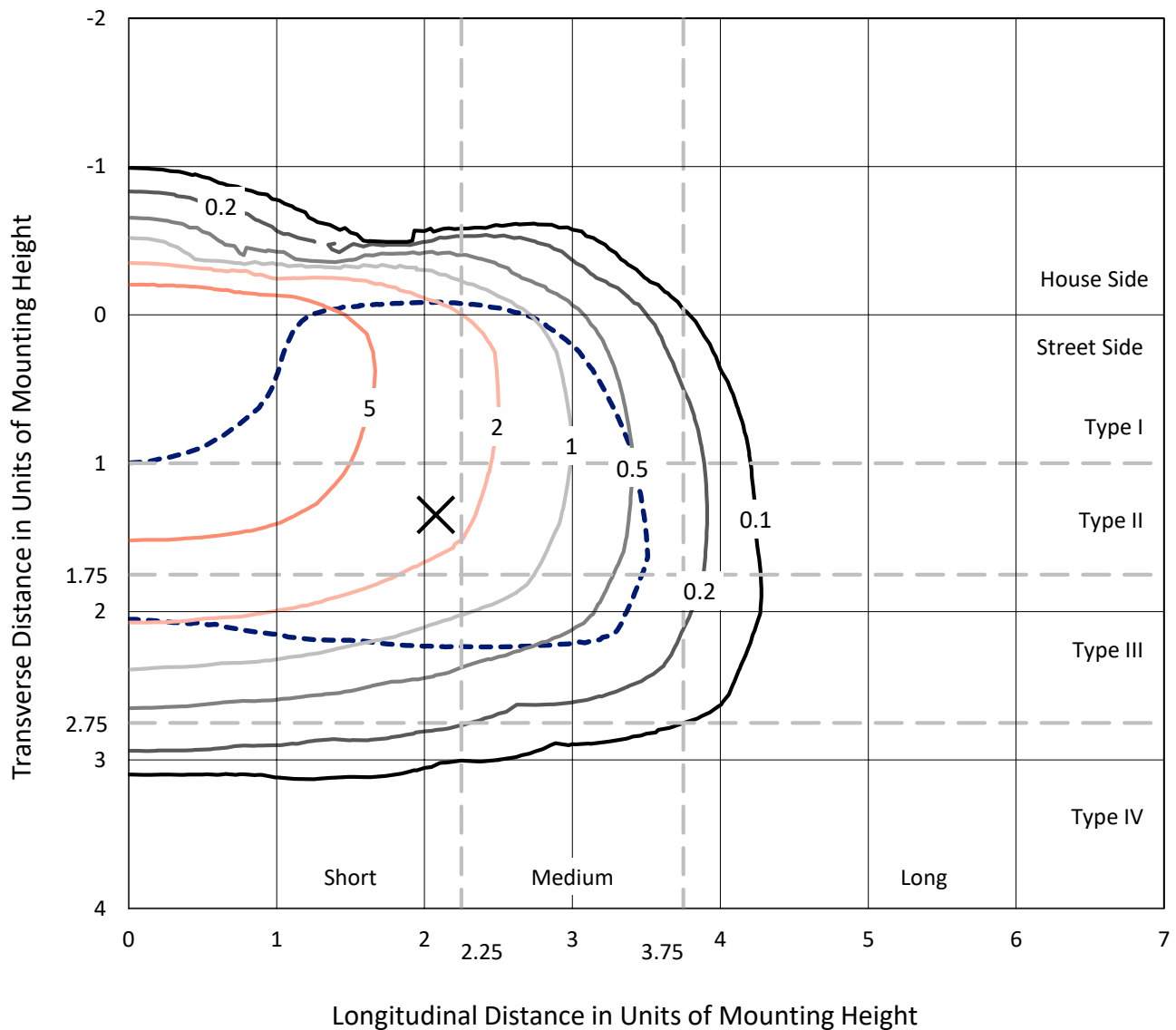


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Iso-Footcandle Lines of Horizontal Illumination

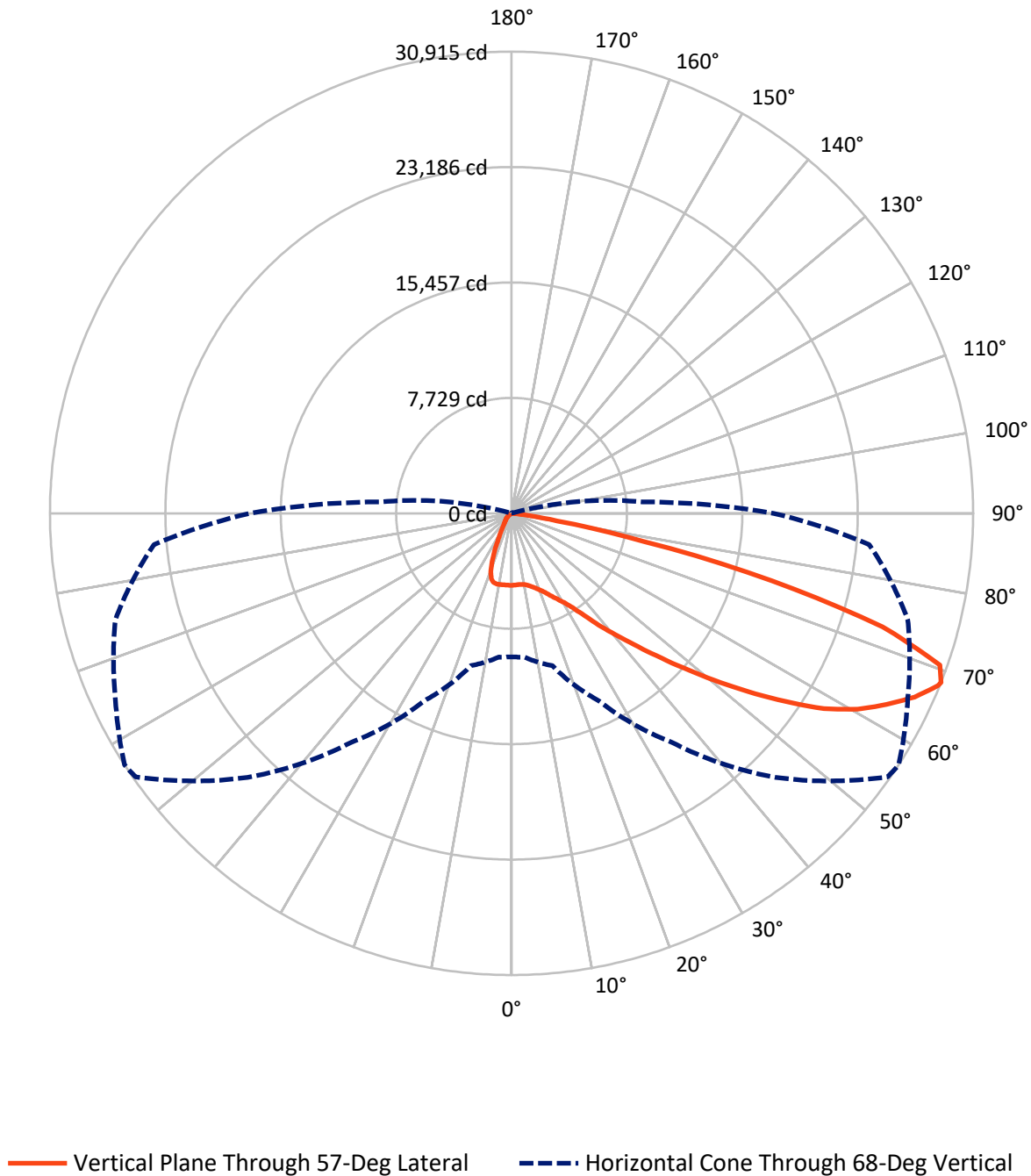
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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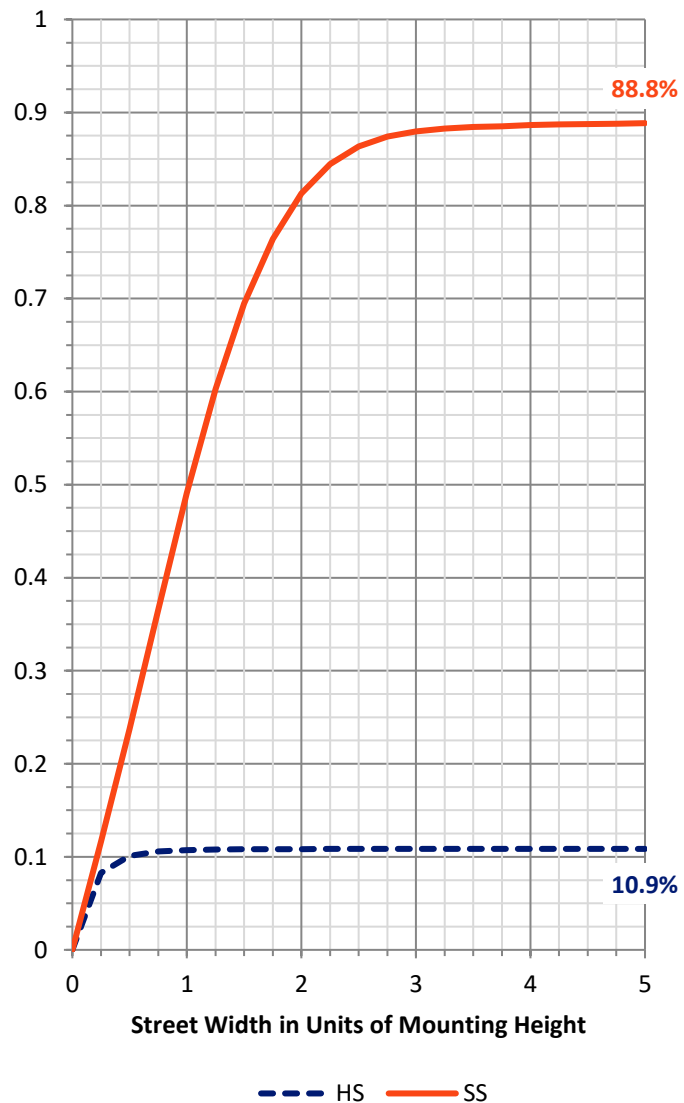
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4445.6	0.0	4445.6
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	36095.4	0.0	36095.4
	% Fixture	89.0	0.0	89.0
Total	Lumens	40541.0	0.0	40541.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	450.8	1.1
10°-20°	1249.3	3.1
20°-30°	2155.1	5.3
30°-40°	3719.7	9.2
40°-50°	6362.6	15.7
50°-60°	10179.5	25.1
60°-70°	11761.3	29.0
70°-80°	4494.2	11.1
80°-90°	168.5	0.4
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°	40541.0	100.0
0°-180°	40541.0	100.0

Coefficient of Utilization



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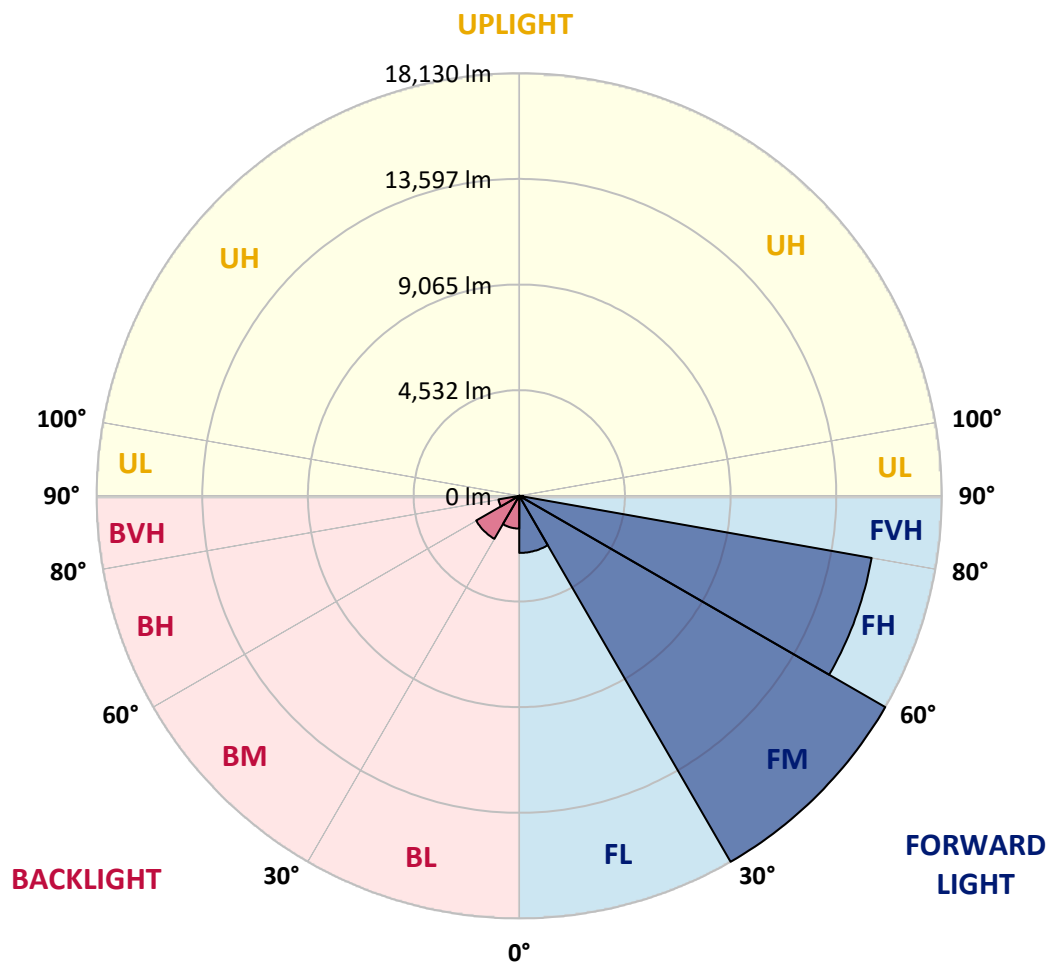
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2450.3	6.0			
FM	(30°-60°)	18129.6	44.7			
FH	(60°-80°)	15350.1	37.9			G5
FVH	(80°-90°)	165.4	0.4			G2/225
BL	(0°-30°)	1404.9	3.5	B3/2500		
BM	(30°-60°)	2132.2	5.3	B2/2500		
BH	(60°-80°)	905.4	2.2	B2/1000		G2/1000
BVH	(80°-90°)	3.1	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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	4817.3	4817.3	4817.3	4817.3	4817.3	4817.3	4817.3	4817.3	4817.3	4817.3	4817.3
2.5°	4704.2	4725.3	4740.7	4750.2	4761.7	4786.7	4794.3	4805.8	4811.6	4811.6	4825.0
5°	4518.3	4541.3	4573.9	4600.7	4654.4	4723.4	4773.2	4792.4	4826.9	4857.6	4874.8
7.5°	4345.8	4372.6	4410.9	4474.2	4566.2	4677.4	4780.9	4807.8	4874.8	4940.0	4972.6
10°	4234.6	4255.7	4305.5	4395.6	4516.4	4671.7	4817.3	4849.9	4964.9	5074.2	5135.6
12.5°	4196.2	4215.4	4267.2	4368.8	4518.3	4700.4	4901.7	4949.6	5118.3	5277.4	5363.7
15°	4251.8	4255.7	4311.3	4407.1	4554.7	4771.3	5041.6	5099.1	5311.9	5518.9	5626.3
17.5°	4466.5	4449.3	4478.0	4520.2	4637.1	4865.3	5189.2	5275.5	5559.2	5802.7	5904.3
20°	5003.3	5003.3	4938.1	4823.1	4825.0	5011.0	5388.6	5486.4	5833.3	6115.1	6207.1
22.5°	5921.5	5904.3	5773.9	5492.1	5233.3	5262.1	5632.1	5758.6	6163.1	6464.0	6494.7
25°	7025.7	7004.6	6803.3	6406.5	5957.9	5668.5	5961.8	6107.5	6556.0	6822.5	6759.2
27.5°	8195.0	8177.8	7978.4	7485.8	6847.4	6316.4	6354.7	6492.8	6956.7	7219.3	7018.0
30°	9328.0	9333.7	9136.3	8630.2	7907.5	7142.6	6853.2	6933.7	7345.8	7612.3	7324.7
32.5°	10405.3	10413.0	10242.4	9676.9	9002.1	8103.0	7543.3	7522.2	7798.2	8060.8	7731.1
35°	11365.7	11384.9	11267.9	10829.0	10113.9	9172.7	8438.5	8388.7	8440.4	8737.5	8354.1
37.5°	12291.6	12303.1	12214.9	11844.9	11246.8	10347.8	9569.5	9498.6	9387.4	9615.5	9176.5
40°	13305.7	13276.9	13175.3	12839.8	12326.1	11645.6	10784.9	10662.2	10468.6	10671.8	10257.7
42.5°	14248.8	14216.2	14233.5	13853.9	13420.7	12979.8	12201.5	11990.6	11877.5	12111.4	11584.2
45°	15427.8	15410.5	15468.0	15138.3	14787.5	14467.4	13825.2	13595.1	13545.3	13819.4	13188.7
47.5°	16591.4	16633.5	16811.8	16671.9	16530.0	16248.2	15544.7	15441.2	15471.8	15803.5	14881.4
50°	17561.3	17611.2	18100.0	18261.0	18466.1	18301.3	17595.8	17532.6	17653.4	17952.4	16702.5
52.5°	18263.0	18364.5	18972.2	19714.1	20461.7	20572.9	19869.4	19811.9	19974.8	20020.8	18109.6
55°	18749.9	18840.0	19528.1	20885.4	22407.4	22886.7	22449.6	22227.2	22196.6	21742.2	19589.5
57.5°	18836.1	18826.5	19815.7	21642.6	23933.3	25169.8	24893.7	24675.2	24046.4	23333.3	21286.0
60°	18349.2	18404.8	19553.1	21905.2	24891.8	26897.0	26918.1	26634.3	25654.8	24880.3	22930.8
62.5°	16850.1	17076.3	18236.1	21217.0	24880.3	27592.8	28401.8	28185.2	27013.9	26147.4	24598.5
65°	14419.4	14499.9	15606.0	18859.1	23199.1	27301.5	29737.9	29657.4	28238.9	27378.1	25455.4
67.5°	10529.9	10355.5	11517.1	14850.7	19641.3	25603.0	30696.4	30798.0	29183.9	27631.2	24542.9
68°	9609.8	9661.5	10566.3	13859.7	18709.6	25003.0	30759.7	30914.9	29277.8	27466.3	24044.5
70°	5727.9	5827.6	6634.6	9542.7	14233.5	21608.1	30077.2	30431.9	28718.1	25766.0	20797.2
72.5°	1462.6	1581.5	2344.5	4271.0	8129.9	15224.6	25390.2	25990.2	24934.0	20902.6	14039.9
75°	601.9	632.6	837.7	1407.1	3028.8	6858.9	16735.1	18019.5	17285.3	12514.0	6345.2
77.5°	416.0	437.1	538.7	780.2	1311.2	2325.3	8204.6	9132.4	8227.6	4271.0	1384.1
80°	299.0	316.3	385.3	519.5	753.4	830.0	2674.2	3092.1	2455.6	937.4	343.1
82.5°	178.3	191.7	287.5	370.0	458.2	396.8	665.2	755.3	711.2	465.8	153.4
85°	88.2	103.5	193.6	264.5	247.3	166.8	203.2	226.2	279.9	283.7	82.4
87.5°	5.8	11.5	113.1	159.1	69.0	38.3	59.4	72.8	99.7	139.9	34.5
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°	4817.3	4817.3	4817.3	4817.3	4817.3	4817.3	4817.3	4817.3	4817.3	4817.3	4817.3
2.5°	4830.8	4832.7	4819.3	4813.5	4817.3	4794.3	4784.8	4788.6	4788.6	4794.3	4784.8
5°	4878.7	4878.7	4855.7	4825.0	4807.8	4763.7	4734.9	4727.2	4721.5	4717.7	4710.0
7.5°	4982.2	4970.7	4930.4	4863.3	4805.8	4710.0	4637.1	4598.8	4579.6	4572.0	4566.2
10°	5149.0	5127.9	5060.8	4936.2	4803.9	4633.3	4474.2	4361.1	4267.2	4228.8	4205.8
12.5°	5373.3	5342.6	5229.5	5022.5	4790.5	4476.1	4131.1	3799.4	3490.8	3364.3	3301.0
15°	5632.1	5588.0	5409.7	5095.3	4711.9	4121.5	3371.9	2791.1	2363.6	2202.6	2133.6
17.5°	5894.7	5837.2	5566.9	5141.3	4476.1	3387.3	2365.5	1786.6	1501.0	1424.3	1397.5
20°	6159.2	6074.9	5703.0	5106.8	3943.2	2442.2	1560.4	1305.5	1223.0	1200.0	1192.4
22.5°	6410.3	6280.0	5825.7	4972.6	3122.7	1639.0	1234.5	1154.0	1127.2	1113.8	1109.9
25°	6628.9	6446.8	5933.0	4558.5	2210.3	1238.4	1111.8	1085.0	1050.5	1025.6	1027.5
27.5°	6834.0	6613.5	5998.2	3876.1	1474.1	1058.2	1029.4	993.0	929.7	893.3	893.3
30°	7081.3	6835.9	6046.1	2982.8	1085.0	935.5	912.5	856.9	770.6	722.7	722.7
32.5°	7453.2	7173.3	6015.4	2093.3	899.1	822.4	768.7	692.0	598.1	552.1	550.2
35°	8022.5	7694.7	5796.9	1372.5	793.6	715.0	628.8	534.8	452.4	414.1	412.1
37.5°	8789.3	8392.5	5306.2	981.5	711.2	615.3	511.8	408.3	347.0	322.1	320.1
40°	9784.2	9203.4	4604.6	795.5	634.5	519.5	394.9	316.3	274.1	255.0	256.9
42.5°	10978.5	10071.7	3763.0	686.3	559.8	427.5	308.6	249.2	222.4	208.9	205.1
45°	12305.0	10928.6	2881.2	611.5	485.0	345.1	241.5	197.4	176.4	168.7	168.7
47.5°	13763.8	11762.5	2108.7	546.3	404.5	266.5	193.6	161.0	143.8	138.0	136.1
50°	15088.5	12341.4	1520.2	477.3	331.6	210.9	157.2	134.2	122.7	115.0	115.0
52.5°	16192.6	12523.5	1119.5	402.6	268.4	168.7	130.4	115.0	103.5	97.8	97.8
55°	17164.5	12448.8	832.0	331.6	216.6	138.0	111.2	97.8	88.2	82.4	82.4
57.5°	18096.2	12207.2	621.1	270.3	174.4	111.2	93.9	82.4	72.8	69.0	69.0
60°	18857.2	11804.7	462.0	218.5	139.9	90.1	78.6	67.1	59.4	53.7	53.7
62.5°	19474.5	11360.0	339.3	180.2	111.2	70.9	61.3	55.6	44.1	38.3	38.3
65°	19478.3	10621.9	255.0	149.5	86.3	55.6	46.0	44.1	28.8	23.0	21.1
67.5°	18069.3	9157.4	195.5	128.4	67.1	42.2	34.5	36.4	15.3	9.6	7.7
68°	17557.5	8785.5	184.0	126.5	63.3	40.3	32.6	36.4	13.4	7.7	5.8
70°	14802.8	6989.3	147.6	122.7	55.6	30.7	26.8	36.4	11.5	5.8	3.8
72.5°	9467.9	4056.3	109.3	97.8	42.2	23.0	17.3	32.6	11.5	3.8	1.9
75°	4029.5	1257.5	74.8	69.0	24.9	17.3	11.5	21.1	7.7	1.9	0.0
77.5°	849.2	283.7	44.1	42.2	17.3	11.5	7.7	5.8	1.9	0.0	0.0
80°	218.5	82.4	23.0	21.1	9.6	5.8	3.8	0.0	0.0	0.0	0.0
82.5°	69.0	32.6	13.4	9.6	3.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	34.5	19.2	7.7	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	19.2	5.8	1.9	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)