

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: P324931

Luminaire Tested: **GAN-SA7C-827-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324931
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-SA7C-827-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 1050mA 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: 30107 lumens
Efficiency: N/A
Efficacy: 77.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

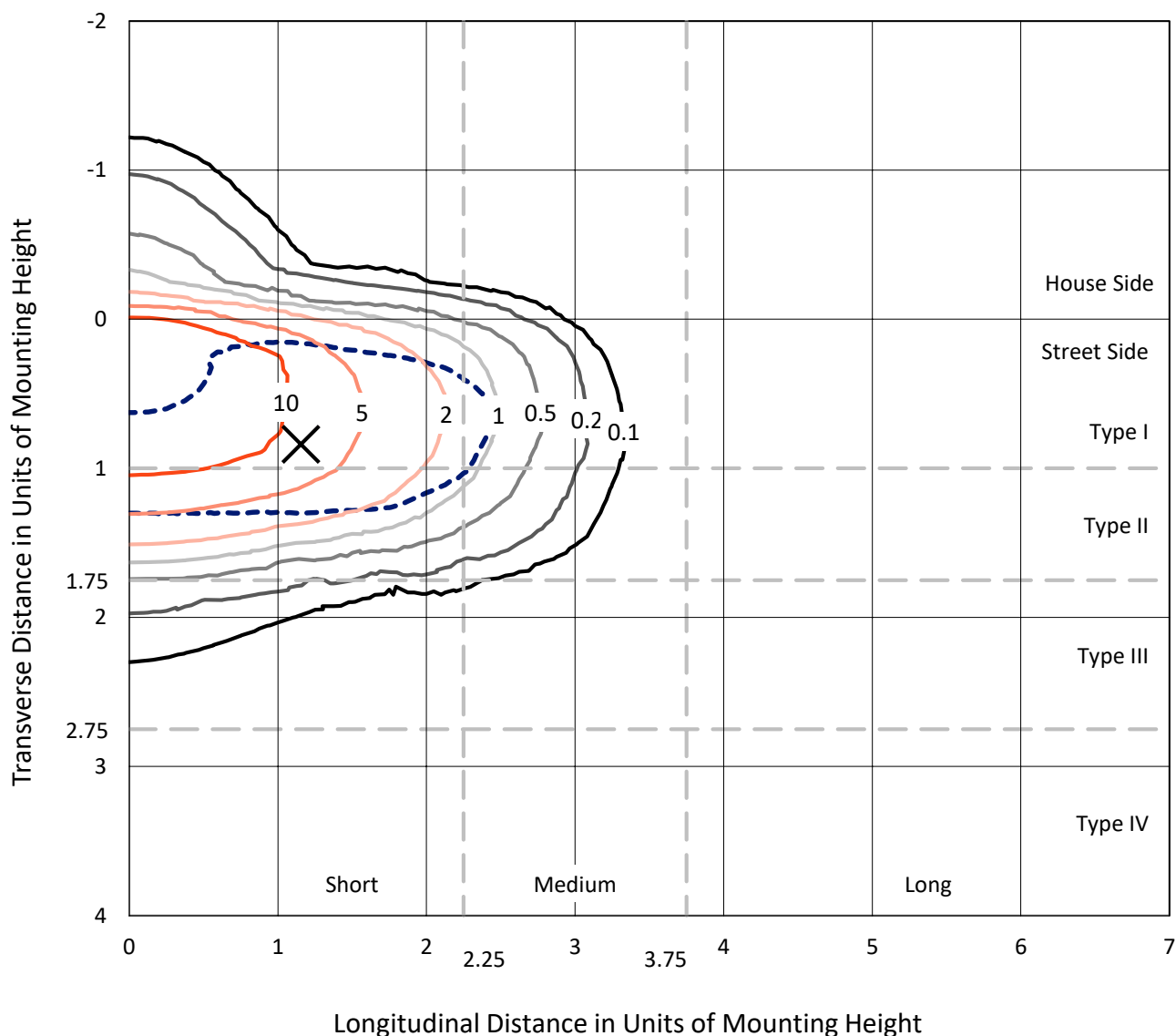
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

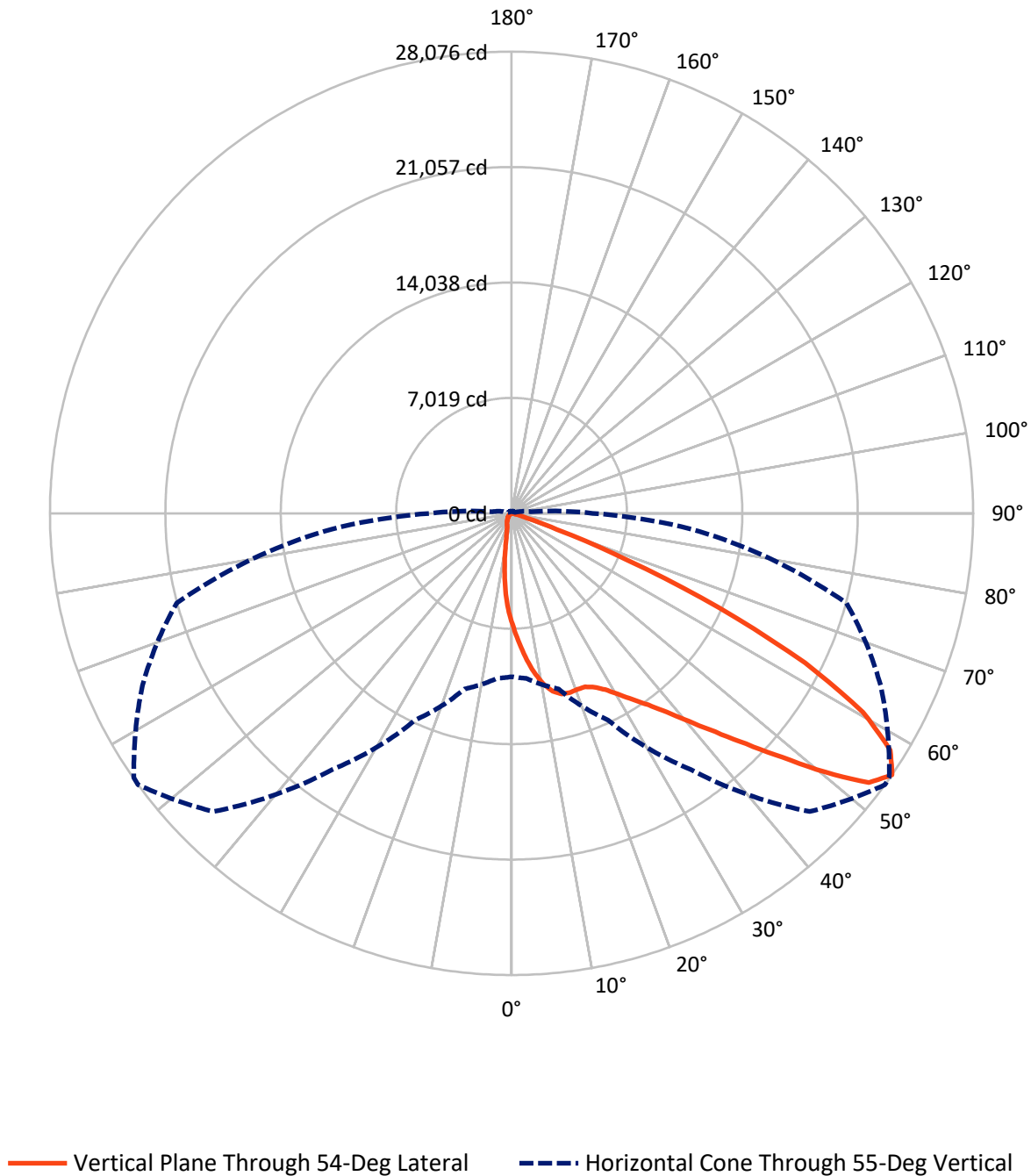
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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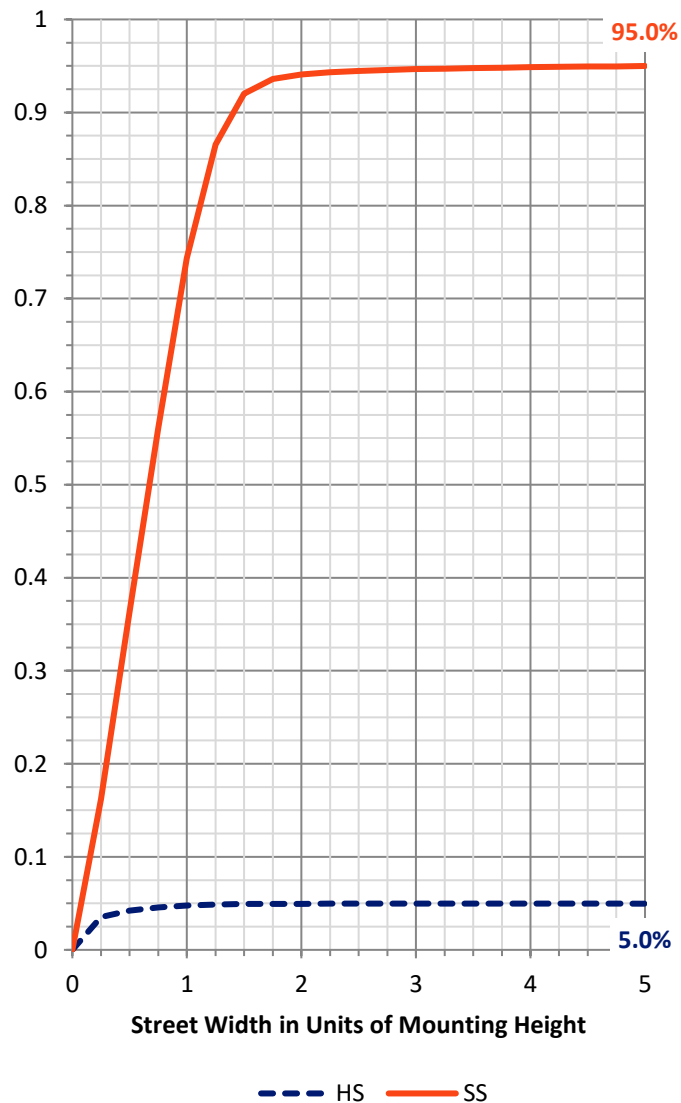
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1502.1	0.0	1502.1
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	28604.9	0.0	28604.9
	% Fixture	95.0	0.0	95.0
Total	Lumens	30107.0	0.0	30107.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	620.9	2.1
10°-20°	1702.9	5.7
20°-30°	2907.5	9.7
30°-40°	4666.0	15.5
40°-50°	7456.2	24.8
50°-60°	7989.6	26.5
60°-70°	4102.1	13.6
70°-80°	621.4	2.1
80°-90°	40.5	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°	30107.0	100.0
0°-180°	30107.0	100.0

Coefficient of Utilization



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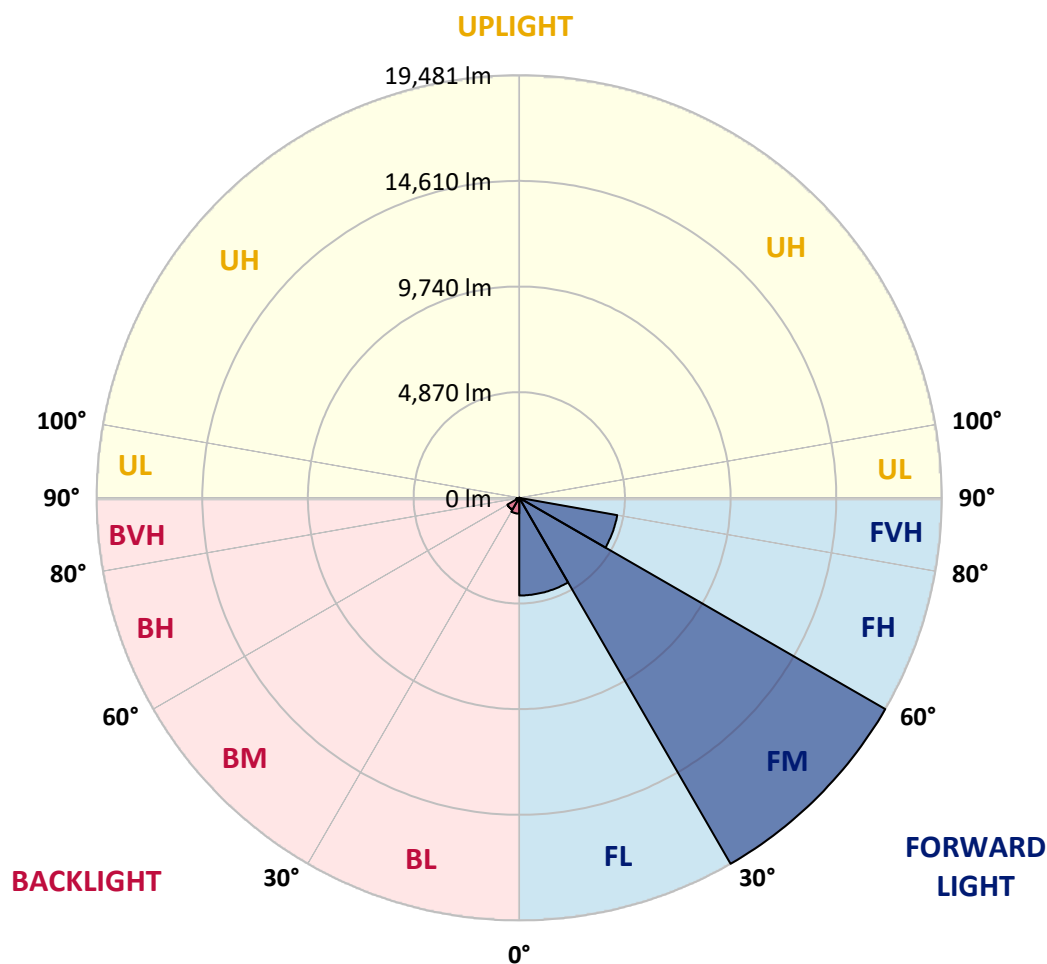
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4500.5	14.9			
FM	(30°-60°)	19480.6	64.7			
FH	(60°-80°)	4585.0	15.2			G2/5000
FVH	(80°-90°)	38.8	0.1			G1/100
BL	(0°-30°)	730.8	2.4	B2/1000		
BM	(30°-60°)	631.2	2.1	B1/1000		
BH	(60°-80°)	138.4	0.5	B1/500		G1/500
BVH	(80°-90°)	1.6	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	6742.8	6742.8	6742.8	6742.8	6742.8	6742.8	6742.8	6742.8	6742.8	6742.8	6742.8
2.5°	8461.6	8335.5	8339.4	8282.2	8072.8	7909.0	7738.7	7698.4	7433.2	7154.9	6887.1
5°	9924.3	9832.0	9809.9	9699.4	9408.1	9100.0	8769.7	8693.0	8174.3	7604.8	7044.4
7.5°	10675.8	10677.1	10658.9	10618.6	10436.6	10137.5	9734.5	9653.9	8947.9	8093.7	7208.2
10°	10457.4	10506.8	10608.2	10742.1	10881.2	10843.5	10540.6	10467.8	9700.7	8611.1	7390.3
12.5°	9947.7	9954.2	10067.3	10287.1	10687.5	11098.4	11103.6	11078.9	10419.7	9152.0	7590.5
15°	9694.2	9718.9	9760.5	9902.2	10281.9	10939.8	11410.4	11445.5	11078.9	9726.7	7803.7
17.5°	9860.6	9895.7	9860.6	9877.5	10097.2	10688.8	11463.7	11553.4	11654.9	10294.9	8005.2
20°	10311.8	10344.3	10281.9	10213.0	10255.9	10616.0	11426.0	11546.9	12106.0	10799.3	8174.3
22.5°	10920.3	10933.3	10838.3	10725.2	10694.0	10863.0	11457.2	11582.0	12467.5	11255.7	8280.9
25°	11589.8	11601.6	11483.2	11353.2	11279.1	11348.0	11713.4	11807.0	12786.0	11691.3	8342.0
27.5°	12319.3	12329.7	12181.4	12021.5	11935.7	11938.3	12135.9	12236.0	13125.4	12187.9	8391.4
30°	13090.3	13085.1	12948.5	12726.2	12617.0	12614.4	12744.4	12845.8	13616.8	12825.0	8459.0
32.5°	13956.2	13945.8	13752.1	13476.4	13352.9	13371.1	13486.8	13545.3	14226.6	13503.7	8579.9
35°	15096.4	15066.5	14774.0	14432.1	14204.5	14198.0	14295.5	14342.3	15004.1	14325.4	8781.4
37.5°	16576.1	16548.8	16152.2	15655.5	15335.7	15216.1	15331.8	15391.6	16113.2	15379.9	9105.2
40°	18034.9	18007.6	17772.2	17317.2	16824.4	16537.1	16628.1	16691.8	17497.9	16659.3	9513.5
42.5°	19041.2	19064.6	19146.5	19184.2	18722.7	18119.4	18161.0	18227.3	18952.8	18027.1	9980.2
45°	19306.4	19357.2	19820.0	20728.9	20901.8	20431.1	19995.5	20032.0	20431.1	19394.9	10447.0
47.5°	18509.4	18603.0	19496.3	21186.5	22650.5	22983.4	22159.1	22110.9	21849.6	20501.3	10778.5
50°	16698.3	16784.1	17941.3	20441.5	23181.0	25419.9	24751.6	24609.9	23093.9	21163.1	10895.6
52.5°	14077.1	14181.1	15121.2	18096.0	22181.2	26506.9	27206.4	27088.1	24006.6	21215.1	10915.1
55°	9941.2	10067.3	11062.0	13869.1	19012.6	25642.2	28076.2	28041.1	24764.6	21077.3	10956.7
57.5°	5586.9	5677.9	6750.6	8890.7	13925.0	22334.6	27167.4	27400.1	25222.3	20838.1	11019.1
60°	2480.8	2505.5	3060.6	4425.8	8152.2	17068.8	24565.7	24958.4	24829.6	20518.2	11124.4
62.5°	1375.6	1354.8	1354.8	1839.8	3543.0	10566.6	20032.0	20680.7	23153.7	20139.9	11129.6
65°	1077.9	1058.4	1002.4	1010.2	1349.6	4689.8	13871.7	15024.9	19970.8	19030.8	10755.1
67.5°	914.0	897.1	841.2	819.1	838.6	1547.2	7621.7	8819.2	15153.7	16148.3	9315.8
70°	772.3	760.6	732.0	704.7	655.3	764.5	2916.3	3730.2	9337.9	10742.1	6359.2
72.5°	621.5	616.3	626.7	603.3	543.5	509.7	997.2	1207.9	4194.4	4793.8	2619.9
75°	535.7	533.1	538.3	514.9	447.3	355.0	507.1	553.9	1183.2	1172.8	530.5
77.5°	348.4	352.4	446.0	435.6	384.9	236.6	262.6	283.4	358.9	269.1	161.2
80°	222.3	219.7	226.2	361.5	345.8	180.7	131.3	137.8	172.9	132.6	78.0
82.5°	135.2	132.6	148.2	169.0	174.2	126.1	80.6	81.9	107.9	85.8	41.6
85°	11.7	15.6	89.7	83.2	59.8	39.0	39.0	41.6	57.2	50.7	23.4
87.5°	0.0	0.0	15.6	23.4	13.0	14.3	14.3	15.6	22.1	22.1	11.7
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°	6742.8	6742.8	6742.8	6742.8	6742.8	6742.8	6742.8	6742.8	6742.8	6742.8	6742.8
2.5°	6748.0	6612.7	6339.7	6077.1	5854.7	5640.2	5395.8	5153.9	5040.8	4995.3	4948.5
5°	6759.7	6481.4	5918.4	5351.6	4763.9	4234.7	3783.5	3320.7	3089.2	2987.8	2941.0
7.5°	6775.3	6351.4	5441.3	4489.5	3543.0	2825.3	2198.6	1795.6	1621.3	1594.0	1526.4
10°	6777.9	6194.1	4887.4	3537.8	2375.4	1703.2	1310.6	1102.6	1025.8	1012.8	990.7
12.5°	6783.1	6008.2	4272.4	2619.9	1583.6	1139.0	947.8	878.9	858.1	856.8	856.8
15°	6798.7	5813.1	3634.0	1887.9	1137.7	902.3	832.1	804.8	797.0	800.9	799.6
17.5°	6798.7	5583.0	3007.3	1406.8	919.2	811.3	772.3	754.1	751.5	755.4	756.7
20°	6749.3	5303.5	2432.6	1094.8	815.2	752.8	717.7	700.8	694.3	696.9	698.2
22.5°	6630.9	4960.2	1964.6	906.2	746.3	699.5	661.8	635.8	625.4	626.7	626.7
25°	6446.3	4553.2	1536.8	784.0	690.4	642.3	598.1	568.2	561.7	560.4	563.0
27.5°	6209.7	4103.4	1223.5	690.4	624.1	578.6	534.4	509.7	504.5	505.8	507.1
30°	5977.0	3636.6	964.7	611.1	550.0	507.1	473.3	461.6	461.6	465.5	466.8
32.5°	5763.7	3188.1	763.2	542.2	483.7	444.7	425.2	423.9	430.4	433.0	434.3
35°	5580.4	2773.3	631.9	488.9	431.7	397.9	391.4	396.6	404.4	409.6	410.9
37.5°	5450.4	2402.7	552.6	444.7	391.4	364.1	362.8	373.2	383.6	395.3	397.9
40°	5395.8	2089.4	498.0	405.7	358.9	338.0	334.1	348.4	368.0	384.9	387.5
42.5°	5350.3	1833.3	451.2	368.0	332.8	302.9	301.6	319.8	343.2	360.2	364.1
45°	5311.3	1627.8	408.3	327.6	299.0	260.0	263.9	287.3	305.5	323.7	327.6
47.5°	5230.6	1458.8	361.5	284.7	247.0	222.3	230.1	250.9	265.2	292.5	296.4
50°	5086.3	1321.0	313.3	232.7	201.5	192.4	204.1	218.4	236.6	260.0	262.6
52.5°	4988.8	1217.0	271.7	195.0	166.4	169.0	180.7	185.9	196.3	205.4	202.8
55°	4932.9	1159.8	237.9	169.0	141.7	149.5	152.1	145.6	140.4	131.3	127.4
57.5°	4926.4	1107.8	211.9	146.9	124.8	128.7	119.6	97.5	79.3	68.9	66.3
60°	4916.0	1044.0	191.1	123.5	110.5	105.3	85.8	53.3	37.7	35.1	35.1
62.5°	4802.9	945.2	175.5	104.0	93.6	79.3	49.4	24.7	20.8	22.1	22.1
65°	4442.7	807.4	159.9	84.5	74.1	57.2	24.7	14.3	7.8	9.1	9.1
67.5°	3777.0	643.6	143.0	65.0	55.9	36.4	14.3	6.5	0.0	0.0	0.0
70°	2528.9	399.2	120.9	45.5	36.4	22.1	10.4	1.3	0.0	0.0	0.0
72.5°	969.9	215.8	97.5	27.3	23.4	15.6	6.5	0.0	0.0	0.0	0.0
75°	218.4	141.7	67.6	19.5	16.9	10.4	2.6	0.0	0.0	0.0	0.0
77.5°	83.2	102.7	39.0	13.0	11.7	6.5	0.0	0.0	0.0	0.0	0.0
80°	40.3	61.1	18.2	7.8	6.5	2.6	0.0	0.0	0.0	0.0	0.0
82.5°	20.8	23.4	7.8	3.9	2.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	11.7	11.7	3.9	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.5	3.9	1.3	1.3	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)