

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: P193467

Luminaire Tested: **GAN-AF-09-LED-U-AFL-8030-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193467
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24297)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-09-LED-U-AFL-8030-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 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: 28720 lumens
Efficiency: N/A
Efficacy: 76.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 374
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: 28.75 FT

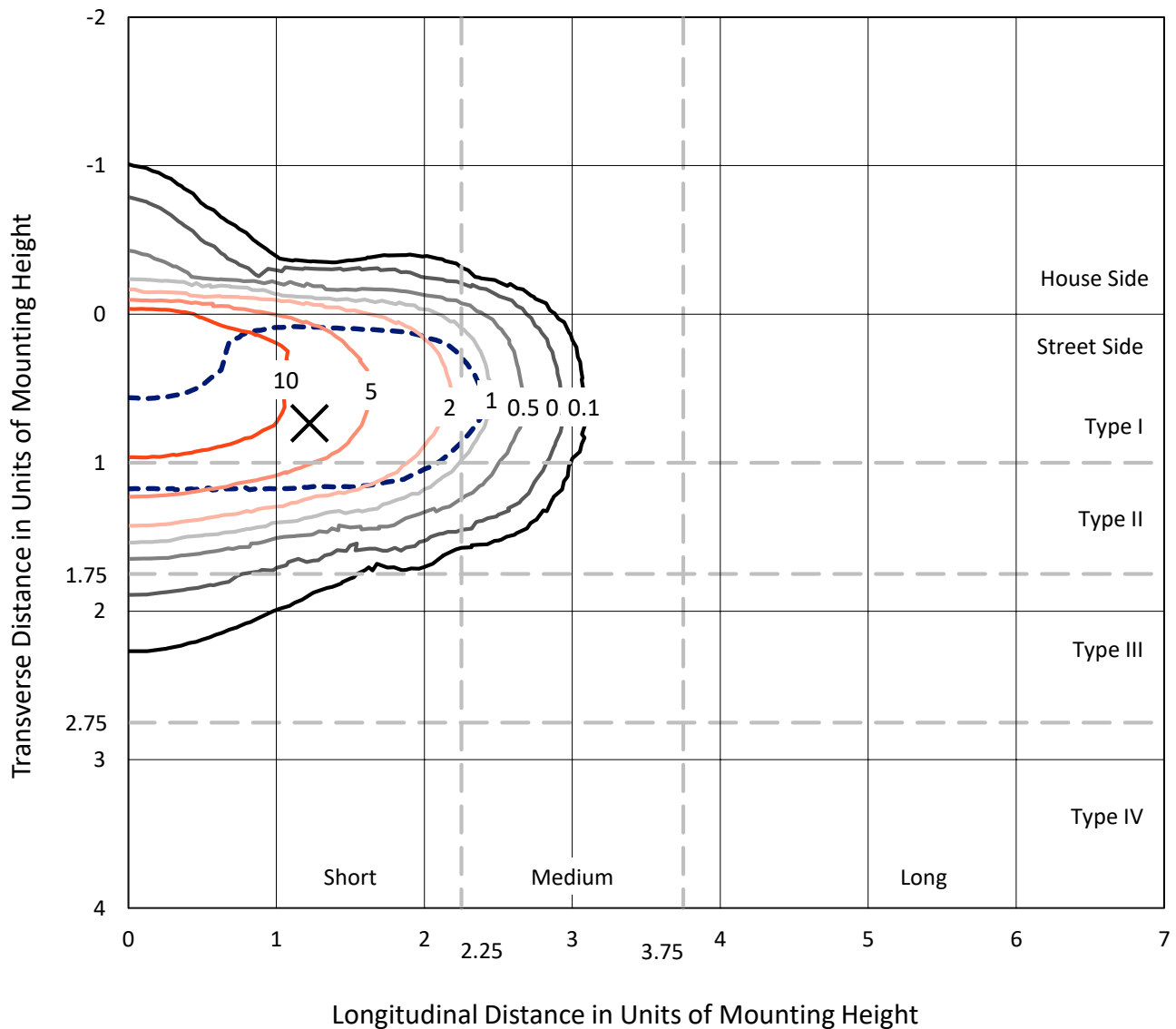


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

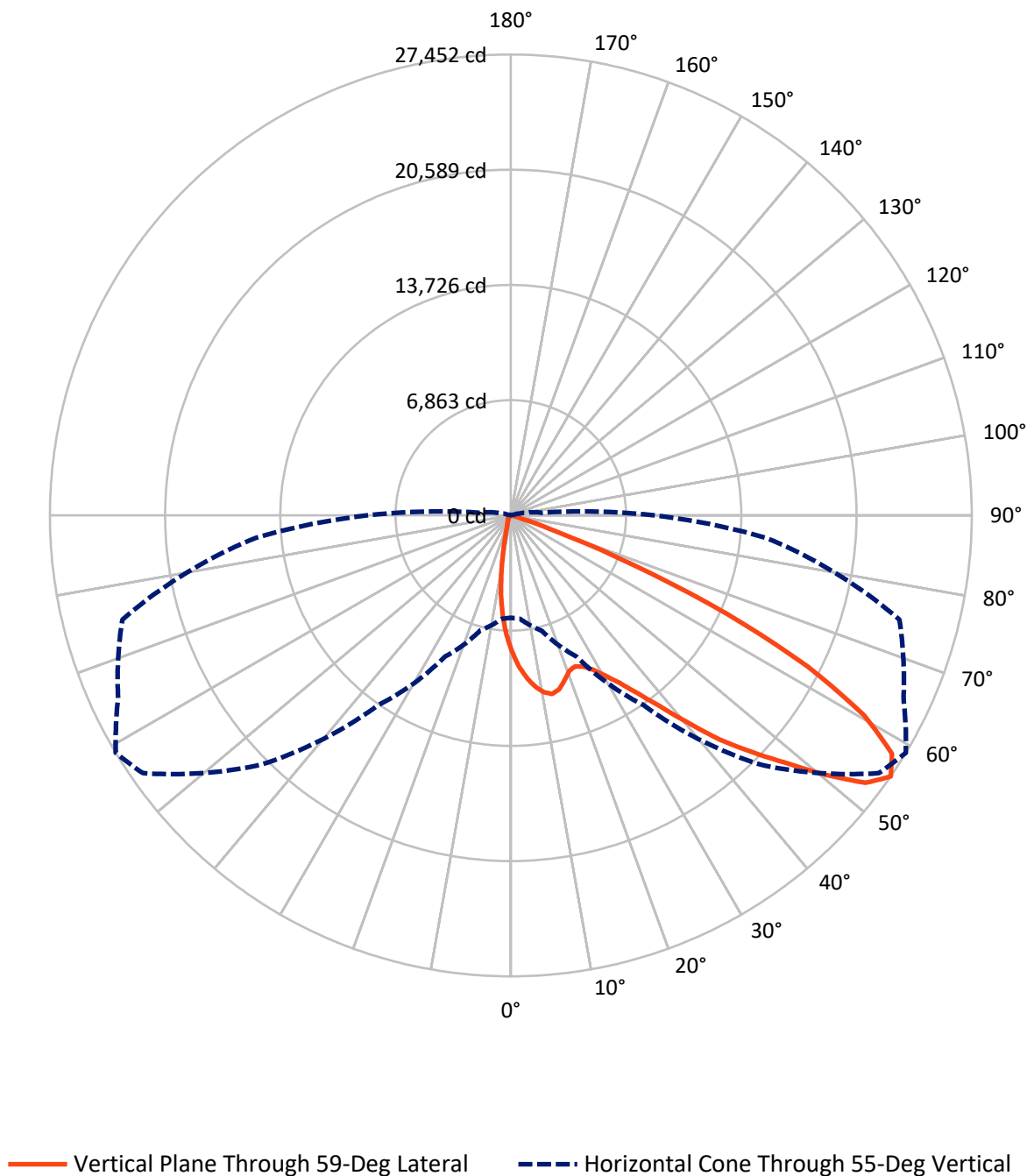


Based on 25 foot mounting height. Maximum calculated value = 16.1 fc
Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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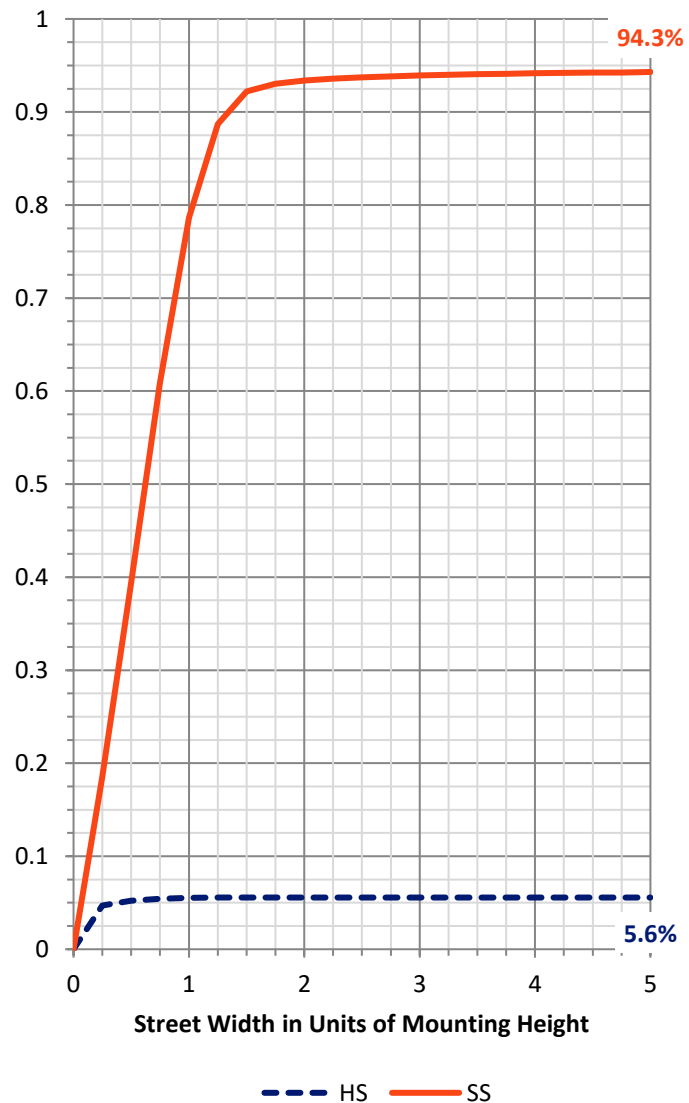
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1604.2	0.0	1604.2
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	27115.8	0.0	27115.8
	% Fixture	94.4	0.0	94.4
Total	Lumens	28720.0	0.0	28720.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	677.2	2.4
10°-20°	1621.3	5.6
20°-30°	2758.9	9.6
30°-40°	4744.7	16.5
40°-50°	7325.3	25.5
50°-60°	7364.2	25.6
60°-70°	3776.4	13.1
70°-80°	409.3	1.4
80°-90°	42.8	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°	28720.0	100.0
0°-180°	28720.0	100.0

Coefficient of Utilization



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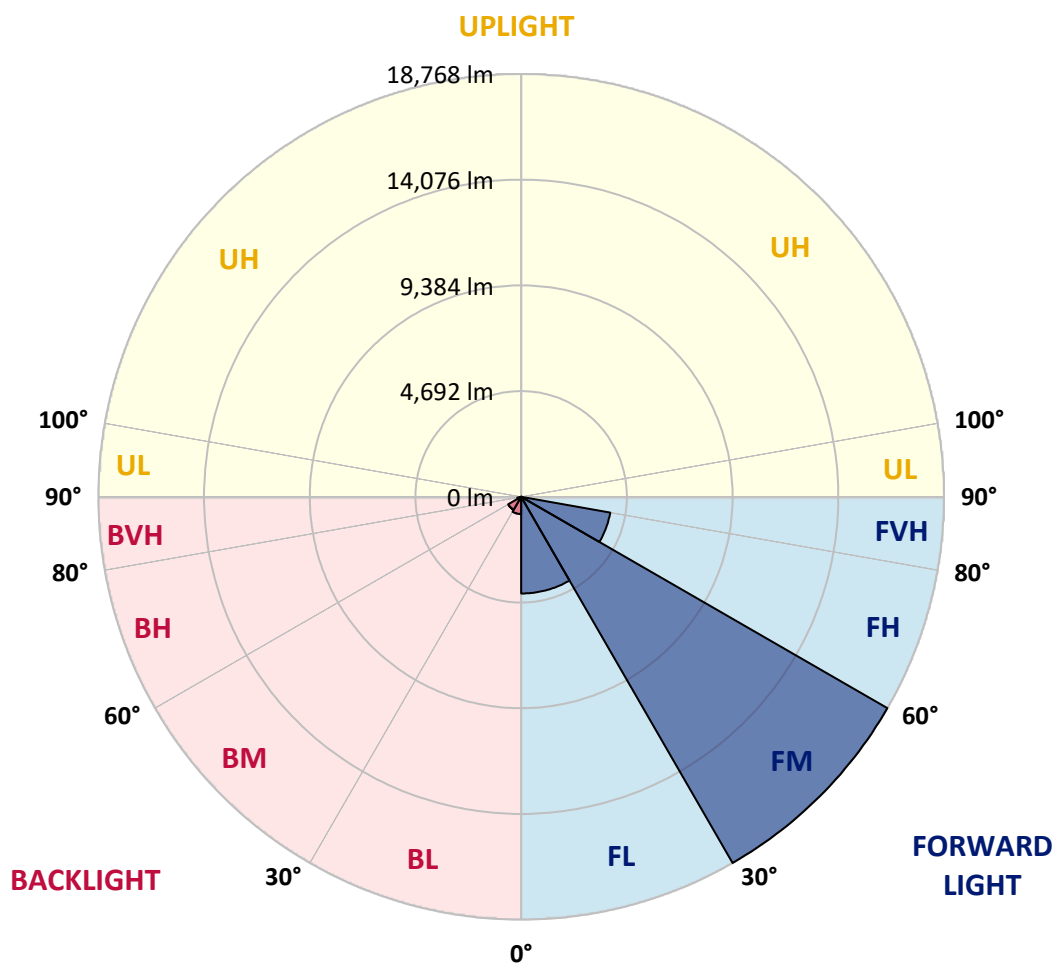
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4291.7	14.9			
FM	(30°-60°)	18768.4	65.3			
FH	(60°-80°)	4013.8	14.0			G2/5000
FVH	(80°-90°)	41.9	0.1			G1/100
BL	(0°-30°)	765.7	2.7	B2/1000		
BM	(30°-60°)	665.8	2.3	B1/1000		
BH	(60°-80°)	171.9	0.6	B1/500		G1/500
BVH	(80°-90°)	0.9	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°	55°	59°	65°	75°	85°
0°	8084.6	8084.6	8084.6	8084.6	8084.6	8084.6	8084.6	8084.6	8084.6	8084.6	8084.6
2.5°	9565.9	9464.2	9433.7	9413.4	9320.1	9203.2	9043.9	8969.3	8816.8	8571.0	8269.3
5°	10442.2	10423.5	10355.7	10318.4	10218.4	10052.3	9798.1	9676.1	9433.7	9020.1	8479.5
7.5°	10059.1	10176.1	10269.3	10425.2	10621.8	10615.0	10401.5	10274.4	10003.2	9457.4	8713.4
10°	8579.5	8674.4	8826.9	9181.2	9903.2	10540.5	10791.3	10699.8	10482.8	9859.1	8938.8
12.5°	8289.7	8279.5	8306.6	8410.0	8788.0	9696.4	10725.2	10909.9	10865.9	10226.9	9152.4
15°	8443.9	8432.0	8428.6	8464.2	8555.8	8938.8	10228.6	10759.1	11099.8	10567.6	9333.7
17.5°	8876.1	8825.2	8798.1	8769.3	8742.2	8837.1	9632.0	10337.1	11135.4	10865.9	9484.5
20°	9616.7	9532.0	9432.0	9269.3	9116.8	9069.3	9381.2	9903.2	11008.2	11093.0	9582.8
22.5°	10547.2	10438.8	10265.9	9969.3	9659.1	9479.5	9504.9	9765.9	10818.4	11340.4	9628.6
25°	11593.0	11454.0	11223.5	10811.6	10355.7	10037.1	9871.0	9962.5	10732.0	11630.3	9681.2
27.5°	12713.3	12559.1	12257.4	11696.4	11179.4	10748.9	10410.0	10398.1	10879.4	12009.9	9765.9
30°	13823.4	13799.7	13406.5	12813.3	12128.6	11604.8	11116.7	11054.0	11291.3	12535.3	9933.7
32.5°	15304.8	15126.8	14645.5	14035.3	13245.5	12616.7	12038.7	11893.0	11923.5	13147.2	10193.0
35°	17172.5	16977.6	16299.7	15457.3	14574.3	13831.9	13192.9	12994.6	12920.1	14148.9	10630.3
37.5°	18379.3	18375.9	17950.5	17092.9	16145.4	15326.8	14631.9	14399.7	14248.9	15359.0	11308.2
40°	18411.5	18491.1	18547.1	18538.6	17864.0	17109.8	16492.9	16206.4	15855.6	16975.9	12184.5
42.5°	17423.4	17628.4	18121.7	18958.9	19358.9	19058.9	18538.6	18257.2	17735.2	18706.4	13252.3
45°	16087.8	16230.2	17092.9	18635.2	20169.1	20991.1	20594.5	20091.1	19403.0	20511.4	14209.9
47.5°	15489.5	15514.9	16072.5	17765.7	20230.1	22574.1	22814.8	21996.1	20918.2	21965.6	14959.0
50°	13701.4	13747.2	14516.6	16259.0	19514.8	23321.5	25045.2	24269.0	22570.7	23086.0	15231.9
52.5°	10326.9	10391.3	11367.6	13782.8	17548.8	23002.9	26641.8	26453.7	24380.8	23633.4	15247.1
55°	6093.1	6177.8	7110.0	9277.8	13803.1	20975.8	26760.5	27452.0	25809.6	23957.1	15223.4
57.5°	2845.7	2905.0	3438.9	4779.6	8584.6	16577.6	24974.1	26767.2	26597.7	24128.3	15391.2
60°	1511.8	1528.8	1657.6	2069.4	3879.6	10511.6	21487.7	24170.7	25879.1	24365.6	15596.3
62.5°	1155.9	1161.0	1154.2	1203.4	1630.5	4666.0	16242.0	19870.8	22986.0	24187.6	15369.2
65°	1001.7	1010.1	962.7	950.8	1045.7	1664.4	9649.0	14164.1	18062.3	21786.0	13821.7
67.5°	898.3	901.7	844.1	794.9	811.8	900.0	3806.7	7754.1	11955.7	15969.2	10018.4
70°	827.1	823.7	761.0	683.0	661.0	615.2	1210.1	2842.3	5713.4	8098.1	4659.2
72.5°	732.2	733.9	703.4	601.7	549.1	430.5	561.0	828.8	1705.0	2206.7	1091.5
75°	649.1	640.7	603.4	539.0	452.5	283.0	278.0	369.5	525.4	522.0	235.6
77.5°	469.5	461.0	472.9	442.4	347.5	183.0	139.0	178.0	213.6	206.8	66.1
80°	344.1	339.0	305.1	367.8	306.8	125.4	86.4	94.9	110.2	93.2	20.3
82.5°	235.6	233.9	215.2	203.4	174.6	76.3	54.2	59.3	71.2	52.5	10.2
85°	37.3	42.4	155.9	123.7	103.4	33.9	37.3	40.7	47.5	28.8	3.4
87.5°	0.0	0.0	72.9	64.4	20.3	13.6	22.0	23.7	23.7	15.3	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8084.6	8084.6	8084.6	8084.6	8084.6	8084.6	8084.6	8084.6	8084.6	8084.6	8084.6
2.5°	8115.1	7945.6	7632.0	7308.3	7008.3	6650.7	6405.0	6220.2	6006.7	5949.0	6074.4
5°	8171.0	7850.7	7176.1	6442.2	5752.4	4988.0	4403.3	3940.6	3522.0	3379.6	3508.4
7.5°	8259.1	7782.9	6682.9	5474.5	4274.5	3081.3	2264.4	1727.1	1384.7	1283.0	1337.3
10°	8347.3	7684.6	6111.7	4328.7	2688.1	1500.0	976.3	779.6	706.8	691.5	700.0
12.5°	8420.2	7552.4	5415.1	3077.9	1437.3	803.4	639.0	606.8	596.6	596.6	600.0
15°	8464.2	7352.4	4589.7	1957.6	827.1	606.8	557.6	547.4	547.4	549.1	552.5
17.5°	8459.1	7098.2	3686.4	1184.7	618.6	537.3	508.5	500.0	498.3	501.7	503.4
20°	8396.4	6766.0	2779.6	781.3	539.0	489.8	461.0	445.8	444.1	447.4	450.8
22.5°	8277.8	6355.8	1988.1	601.7	486.4	444.1	408.5	394.9	394.9	398.3	401.7
25°	8133.7	5854.1	1359.3	510.2	439.0	394.9	361.0	349.1	352.5	361.0	362.7
27.5°	7954.1	5289.7	923.7	437.3	381.3	345.8	320.3	311.9	320.3	332.2	335.6
30°	7799.8	4701.6	659.3	378.0	323.7	298.3	283.0	283.0	294.9	316.9	322.0
32.5°	7681.2	4132.1	508.5	333.9	281.4	259.3	250.8	259.3	278.0	300.0	305.1
35°	7665.9	3662.6	430.5	298.3	250.8	228.8	225.4	240.7	259.3	276.3	279.7
37.5°	7782.9	3228.7	388.1	269.5	223.7	203.4	200.0	218.6	237.3	257.6	262.7
40°	8004.9	2888.1	357.6	242.4	201.7	179.7	172.9	186.4	211.9	239.0	245.8
42.5°	8293.0	2606.7	323.7	215.2	179.7	149.1	140.7	155.9	183.0	211.9	220.3
45°	8567.6	2364.4	286.4	184.7	150.8	115.3	111.9	132.2	145.8	174.6	181.4
47.5°	8718.5	2150.8	254.2	150.8	116.9	93.2	93.2	98.3	111.9	145.8	152.5
50°	8667.6	1979.6	220.3	111.9	81.4	71.2	71.2	69.5	89.8	116.9	122.0
52.5°	8565.9	1881.3	189.8	86.4	55.9	50.8	45.8	50.8	62.7	74.6	76.3
55°	8550.7	1864.4	159.3	69.5	39.0	33.9	25.4	25.4	25.4	23.7	20.3
57.5°	8669.3	1891.5	133.9	55.9	28.8	22.0	13.6	0.0	0.0	0.0	0.0
60°	8791.3	1920.3	115.3	39.0	20.3	11.9	1.7	0.0	0.0	0.0	0.0
62.5°	8588.0	1855.9	96.6	23.7	15.3	5.1	0.0	0.0	0.0	0.0	0.0
65°	7543.9	1579.6	76.3	16.9	10.2	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	5366.0	1057.6	50.8	10.2	1.7	0.0	0.0	0.0	0.0	0.0	0.0
70°	2449.1	442.4	32.2	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	523.7	137.3	22.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	106.8	100.0	8.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	33.9	157.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	20.3	113.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	3.4	16.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	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)