

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: P192667

Luminaire Tested: **GAN-AF-09-LED-U-AFL-7030-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192667
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-7030-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 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: 34039.7 lumens
Efficiency: N/A
Efficacy: 91.0 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



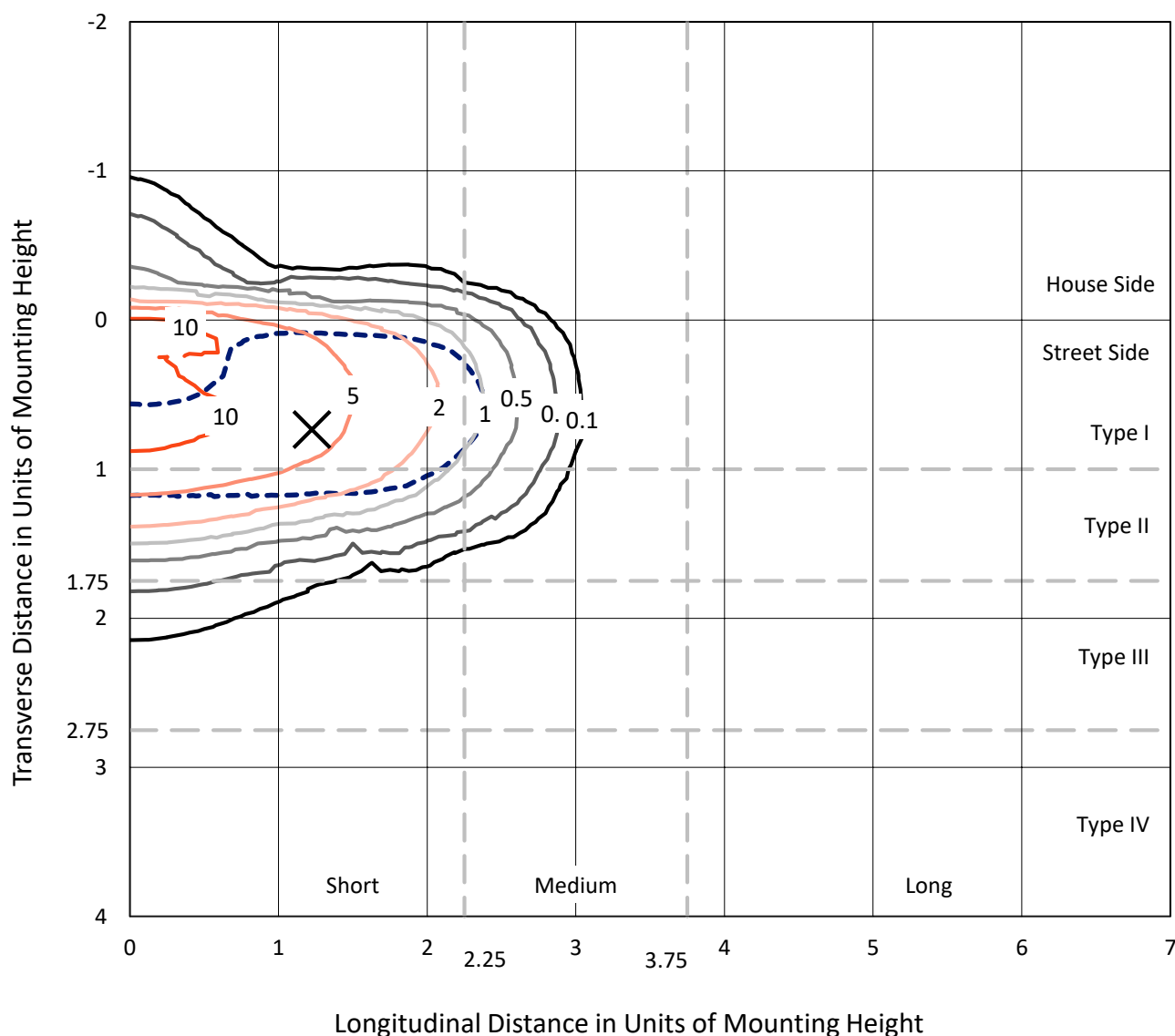
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

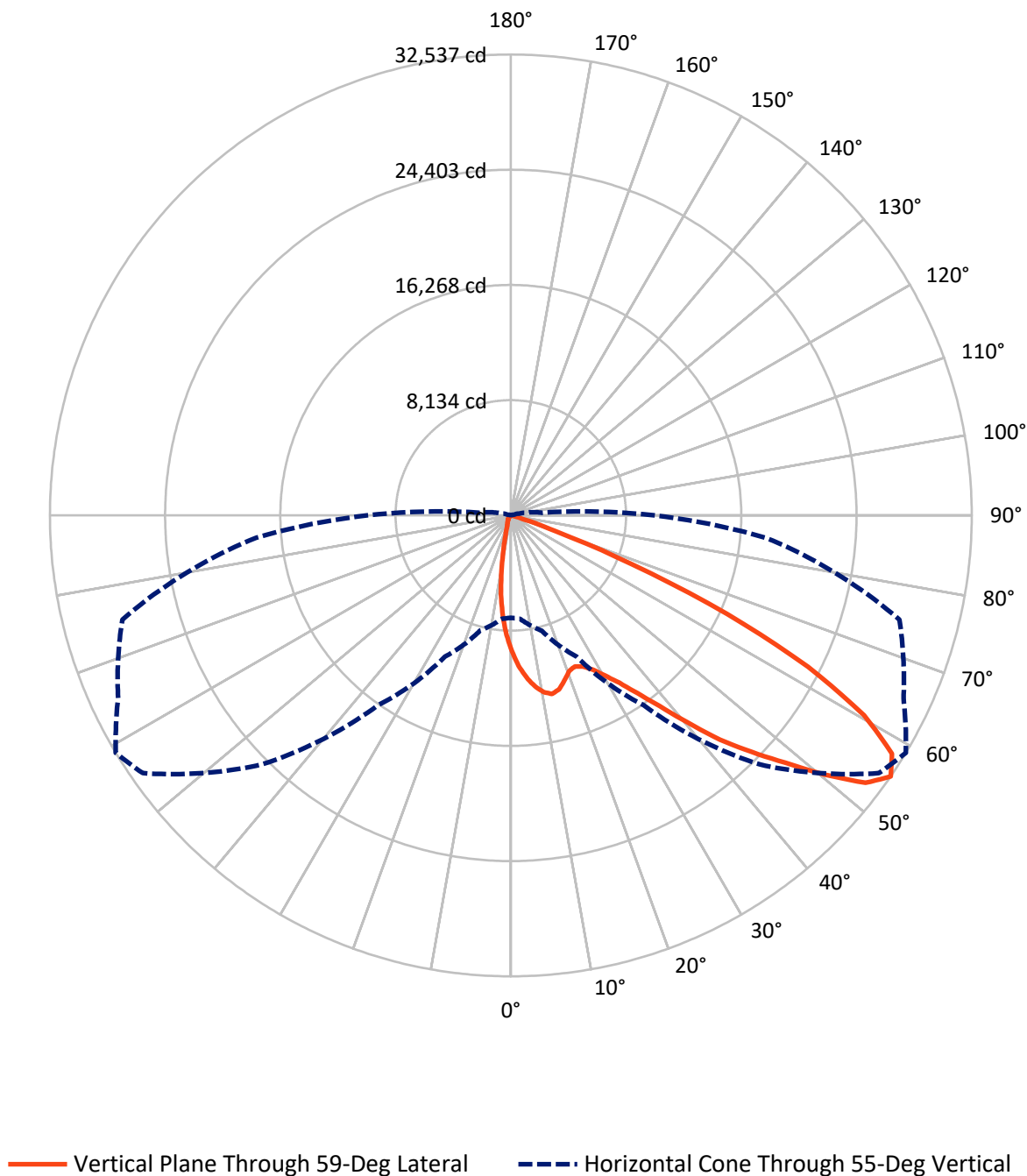


Based on 30 foot mounting height. Maximum calculated value = 13.2 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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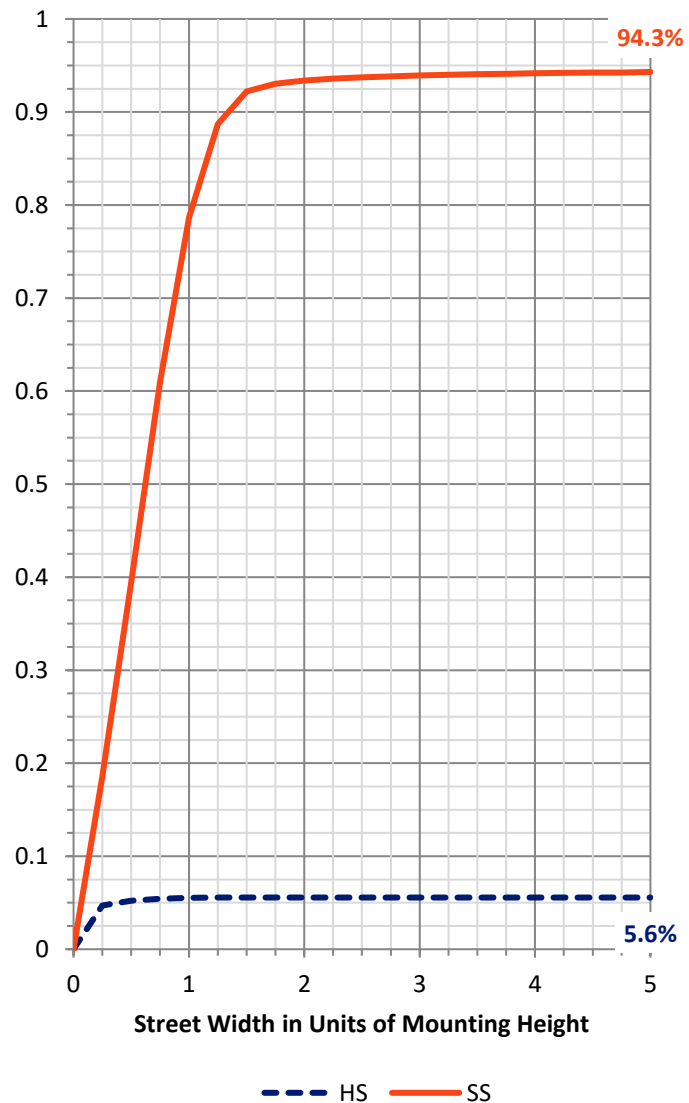
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1901.3	0.0	1901.3
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	32138.4	0.0	32138.4
	% Fixture	94.4	0.0	94.4
Total	Lumens	34039.7	0.0	34039.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	802.6	2.4
10°-20°	1921.6	5.6
20°-30°	3269.9	9.6
30°-40°	5623.5	16.5
40°-50°	8682.1	25.5
50°-60°	8728.3	25.6
60°-70°	4475.9	13.1
70°-80°	485.1	1.4
80°-90°	50.7	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°	34039.7	100.0
0°-180°	34039.7	100.0

Coefficient of Utilization



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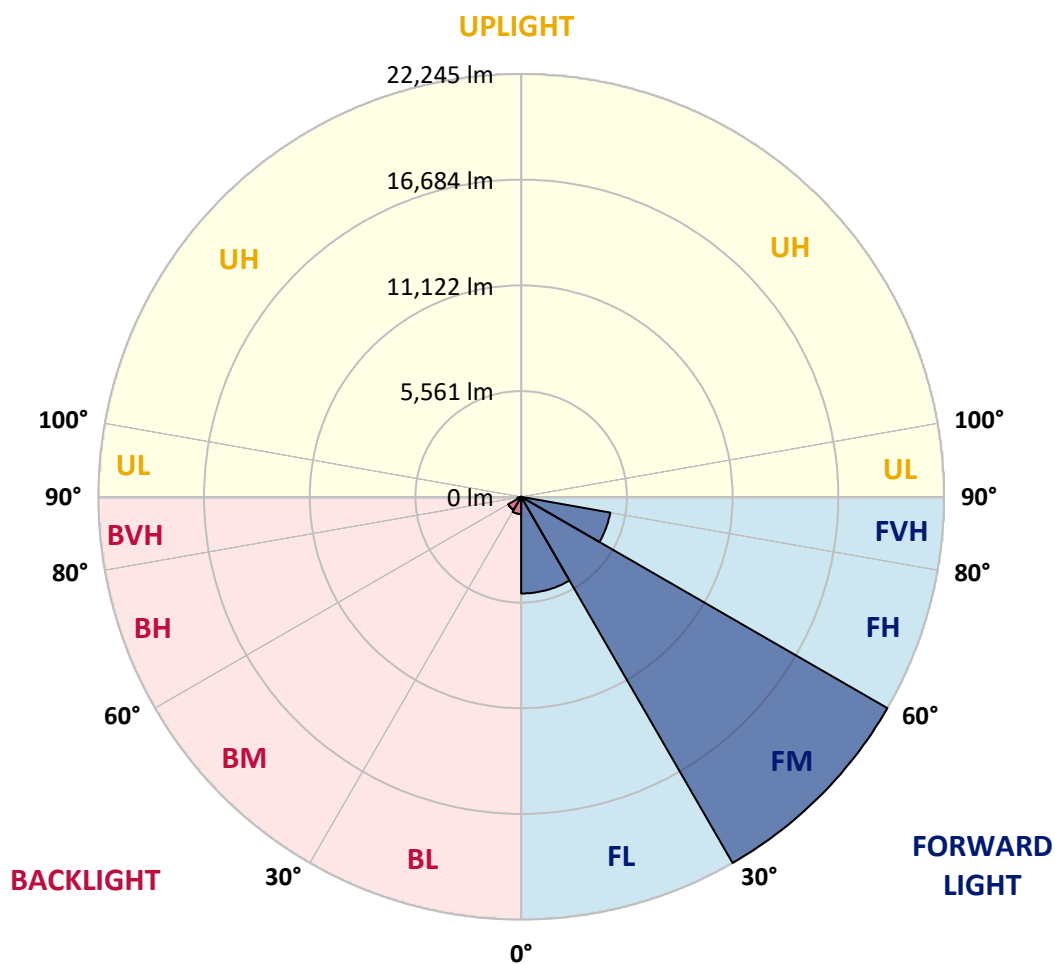
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5086.7	14.9			
FM	(30°-60°)	22244.8	65.3			
FH	(60°-80°)	4757.3	14.0			G2/5000
FVH	(80°-90°)	49.7	0.1			G1/100
BL	(0°-30°)	907.5	2.7	B2/1000		
BM	(30°-60°)	789.1	2.3	B1/1000		
BH	(60°-80°)	203.7	0.6	B1/500		G1/500
BVH	(80°-90°)	1.0	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°	9582.0	9582.0	9582.0	9582.0	9582.0	9582.0	9582.0	9582.0	9582.0	9582.0	9582.0
2.5°	11337.8	11217.2	11181.0	11157.0	11046.4	10907.9	10719.1	10630.7	10449.9	10158.6	9801.0
5°	12376.4	12354.3	12273.8	12229.7	12111.2	11914.2	11612.9	11468.3	11181.0	10690.9	10050.1
7.5°	11922.4	12060.9	12171.4	12356.2	12589.3	12581.2	12328.2	12177.5	11856.0	11209.2	10327.3
10°	10168.6	10281.1	10461.9	10881.7	11737.5	12492.8	12790.1	12681.6	12424.5	11685.3	10594.6
12.5°	9825.1	9813.1	9845.3	9967.7	10415.6	11492.4	12711.8	12930.8	12878.5	12121.2	10847.6
15°	10007.9	9993.8	9989.9	10032.0	10140.5	10594.6	12123.2	12751.9	13155.8	12524.9	11062.6
17.5°	10520.1	10459.9	10427.8	10393.7	10361.5	10473.9	11416.1	12251.8	13198.0	12878.5	11241.3
20°	11398.0	11297.6	11179.1	10986.2	10805.4	10749.2	11118.8	11737.5	13047.3	13147.7	11357.8
22.5°	12500.9	12372.3	12167.4	11815.9	11448.3	11235.3	11265.4	11574.8	12822.2	13441.0	11412.1
25°	13740.3	13575.6	13302.5	12814.3	12273.8	11896.2	11699.4	11807.8	12719.9	13784.4	11474.4
27.5°	15068.2	14885.4	14527.7	13862.9	13250.2	12739.9	12338.1	12324.1	12894.6	14234.6	11574.8
30°	16383.9	16355.8	15889.8	15186.7	14375.1	13754.3	13175.8	13101.5	13382.7	14857.2	11773.7
32.5°	18139.7	17928.7	17358.2	16635.0	15698.9	14953.7	14268.6	14095.9	14132.0	15582.4	12081.1
35°	20353.4	20122.3	19318.7	18320.4	17273.8	16394.0	15636.6	15401.6	15313.2	16769.6	12599.3
37.5°	21783.6	21779.6	21275.4	20259.0	19136.0	18165.8	17342.0	17067.0	16888.1	18203.9	13402.9
40°	21821.8	21916.2	21982.5	21972.5	21173.0	20279.1	19547.8	19208.4	18792.5	20120.3	14441.4
42.5°	20650.6	20893.7	21478.3	22470.6	22944.7	22589.2	21972.5	21639.1	21020.3	22171.3	15706.9
45°	19067.7	19236.4	20259.0	22087.0	23905.0	24879.2	24409.2	23812.5	22996.9	24310.7	16841.9
47.5°	18358.7	18388.7	19049.6	21056.5	23977.3	26755.4	27040.7	26070.5	24792.8	26034.3	17729.8
50°	16239.3	16293.5	17205.5	19270.6	23129.5	27641.3	29684.3	28764.2	26751.5	27362.2	18053.2
52.5°	12239.8	12316.0	13473.1	16335.7	20799.2	27263.7	31576.6	31353.6	28896.9	28010.9	18071.4
55°	7221.7	7322.1	8426.9	10996.3	16359.8	24861.1	31717.2	32536.9	30590.3	28394.7	18043.2
57.5°	3372.9	3443.1	4075.9	5664.9	10174.7	19648.2	29600.0	31725.3	31524.3	28597.5	18242.0
60°	1791.9	1811.9	1964.6	2452.8	4598.1	12458.8	25467.8	28647.8	30672.7	28878.8	18485.1
62.5°	1370.0	1376.0	1368.0	1426.3	1932.5	5530.2	19250.5	23551.4	27243.6	28667.9	18215.9
65°	1187.2	1197.3	1141.0	1126.9	1239.4	1972.6	11436.1	16787.6	21407.9	25821.4	16381.9
67.5°	1064.6	1068.7	1000.4	942.2	962.2	1066.7	4511.8	9190.4	14170.2	18927.1	11874.1
70°	980.3	976.2	901.9	809.5	783.4	729.2	1434.2	3368.8	6771.7	9598.1	5522.3
72.5°	867.8	869.8	833.6	713.1	650.8	510.2	665.0	982.4	2020.9	2615.4	1293.6
75°	769.4	759.4	715.1	638.8	536.4	335.4	329.4	437.9	622.8	618.7	279.2
77.5°	556.4	546.4	560.5	524.3	411.8	217.0	164.8	211.0	253.2	245.1	78.3
80°	407.7	401.7	361.5	436.0	363.7	148.7	102.4	112.5	130.6	110.5	24.1
82.5°	279.2	277.2	255.1	241.0	206.9	90.3	64.3	70.4	84.3	62.3	12.0
85°	44.1	50.3	184.7	146.6	122.6	40.2	44.1	48.2	56.3	34.2	4.1
87.5°	0.0	0.0	86.5	76.4	24.1	16.1	26.1	28.1	28.1	18.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9582.0	9582.0	9582.0	9582.0	9582.0	9582.0	9582.0	9582.0	9582.0	9582.0	9582.0
2.5°	9618.2	9417.4	9045.7	8662.1	8306.4	7882.6	7591.4	7372.4	7119.3	7050.9	7199.6
5°	9684.5	9304.8	8505.3	7635.5	6817.9	5911.9	5218.9	4670.5	4174.4	4005.6	4158.3
7.5°	9789.0	9224.5	7920.7	6488.5	5066.3	3652.0	2683.7	2047.0	1641.2	1520.7	1585.0
10°	9893.4	9108.0	7243.8	5130.5	3186.0	1777.7	1157.0	924.0	837.7	819.6	829.6
12.5°	9979.8	8951.3	6418.2	3648.0	1703.5	952.2	757.2	719.2	707.1	707.1	711.2
15°	10032.0	8714.3	5439.9	2320.2	980.3	719.2	660.9	648.9	648.9	650.8	654.9
17.5°	10025.9	8413.0	4369.2	1404.2	733.2	636.8	602.7	592.6	590.5	594.6	596.7
20°	9951.7	8019.2	3294.5	926.1	638.8	580.5	546.4	528.3	526.3	530.4	534.4
22.5°	9811.1	7533.1	2356.4	713.1	576.6	526.3	484.1	468.0	468.0	472.1	476.1
25°	9640.3	6938.5	1611.0	604.6	520.3	468.0	427.9	413.8	417.8	427.9	429.9
27.5°	9427.3	6269.6	1094.8	518.3	452.0	409.8	379.6	369.7	379.6	393.8	397.7
30°	9244.5	5572.4	781.4	448.0	383.7	353.6	335.4	335.4	349.5	375.7	381.7
32.5°	9103.9	4897.5	602.7	395.7	333.5	307.3	297.3	307.3	329.4	355.5	361.5
35°	9085.9	4341.1	510.2	353.6	297.3	271.2	267.1	285.2	307.3	327.4	331.5
37.5°	9224.5	3826.8	460.0	319.4	265.2	241.0	237.1	259.2	281.3	305.4	311.4
40°	9487.6	3423.0	423.8	287.3	239.1	212.9	204.9	220.9	251.1	283.2	291.2
42.5°	9829.2	3089.6	383.7	255.1	212.9	176.8	166.7	184.7	217.0	251.1	261.1
45°	10154.5	2802.3	339.5	218.9	178.7	136.6	132.5	156.7	172.7	206.9	214.9
47.5°	10333.3	2549.2	301.3	178.7	138.6	110.5	110.5	116.5	132.5	172.7	180.9
50°	10273.1	2346.4	261.1	132.5	96.4	84.3	84.3	82.4	106.4	138.6	144.7
52.5°	10152.6	2229.8	225.0	102.4	66.3	60.3	54.2	60.3	74.3	88.4	90.3
55°	10134.5	2209.7	188.8	82.4	46.2	40.2	30.1	30.1	30.1	28.1	24.1
57.5°	10275.1	2241.9	158.7	66.3	34.2	26.1	16.1	0.0	0.0	0.0	0.0
60°	10419.7	2276.0	136.6	46.2	24.1	14.1	1.9	0.0	0.0	0.0	0.0
62.5°	10178.7	2199.6	114.5	28.1	18.0	6.0	0.0	0.0	0.0	0.0	0.0
65°	8941.2	1872.2	90.3	20.1	12.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	6359.9	1253.5	60.3	12.0	1.9	0.0	0.0	0.0	0.0	0.0	0.0
70°	2902.7	524.3	38.1	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	620.7	162.7	26.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	126.5	118.5	10.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	40.2	186.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	24.1	134.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	4.1	20.1	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)