

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: P193464

Luminaire Tested: **GAN-AF-06-LED-U-AFL-8030-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193464
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-06-LED-U-AFL-8030-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 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: 19214 lumens
Efficiency: N/A
Efficacy: 77.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 249
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



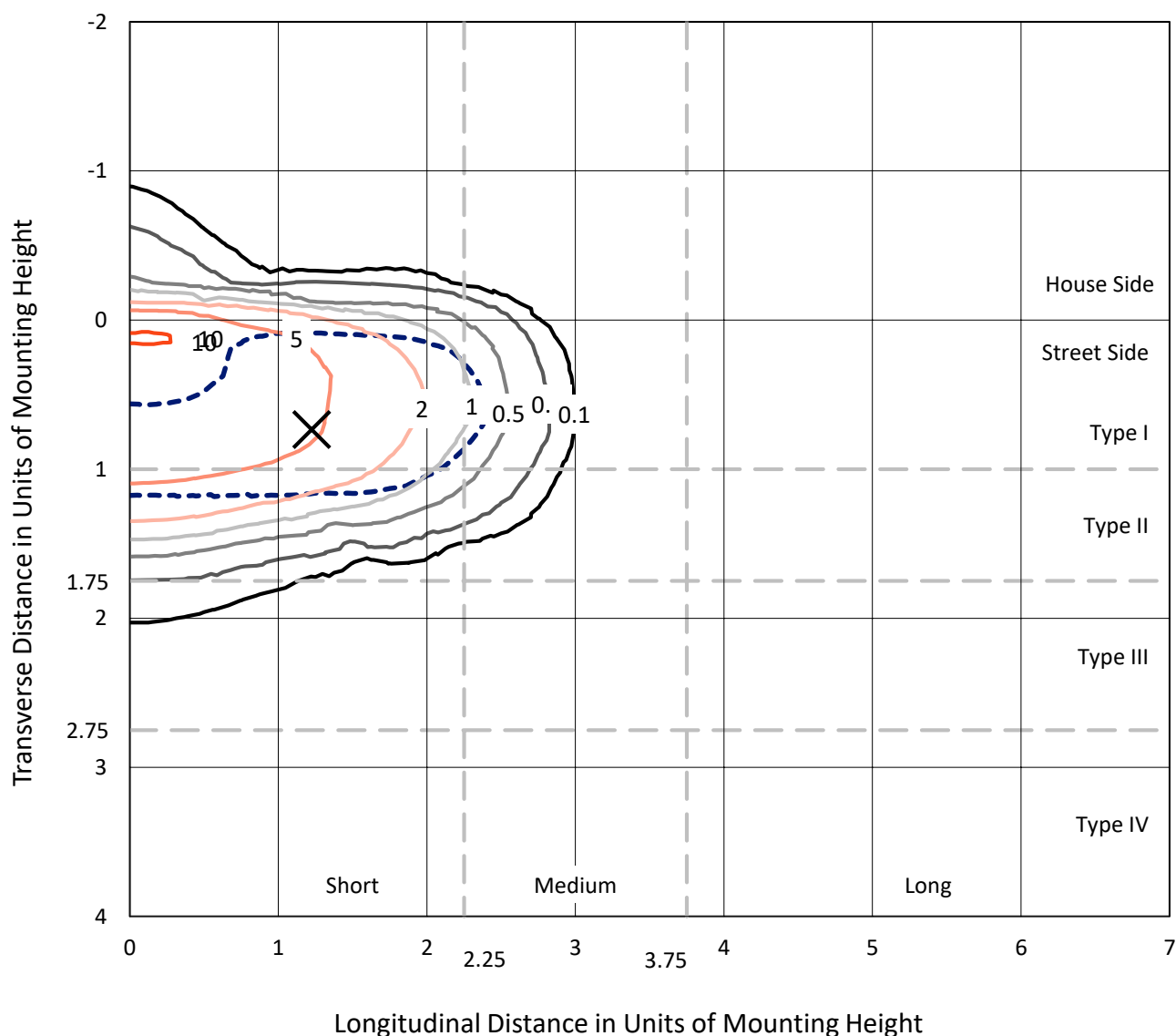
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

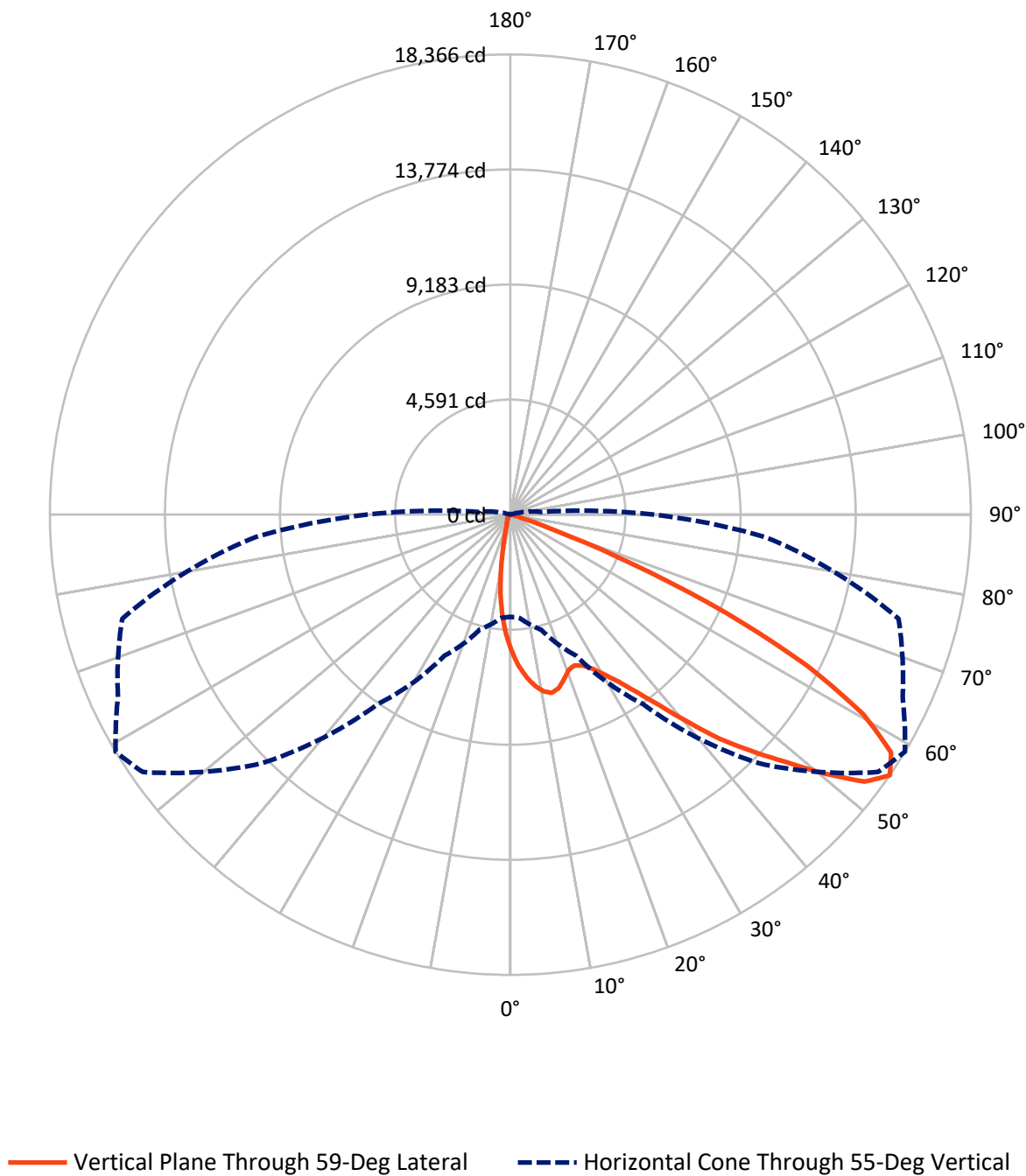


Based on 25 foot mounting height. Maximum calculated value = 10.8 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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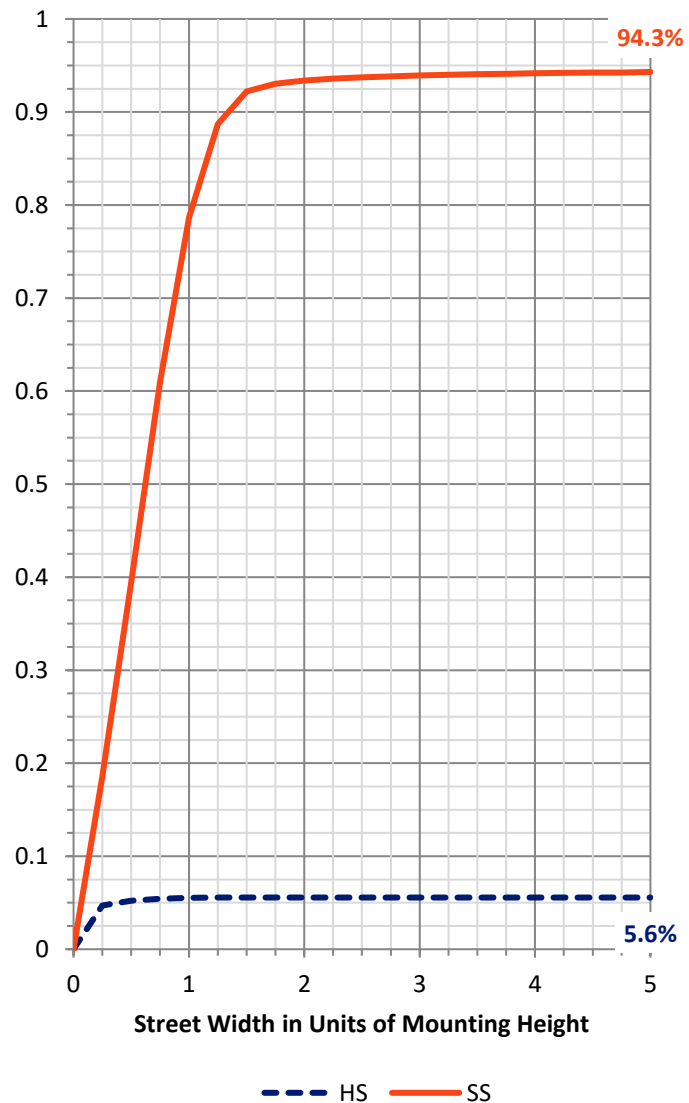
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1073.2	0.0	1073.2
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	18140.8	0.0	18140.8
	% Fixture	94.4	0.0	94.4
Total	Lumens	19214.0	0.0	19214.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	453.0	2.4
10°-20°	1084.7	5.6
20°-30°	1845.7	9.6
30°-40°	3174.2	16.5
40°-50°	4900.7	25.5
50°-60°	4926.7	25.6
60°-70°	2526.5	13.1
70°-80°	273.8	1.4
80°-90°	28.6	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°	19214.0	100.0
0°-180°	19214.0	100.0

Coefficient of Utilization



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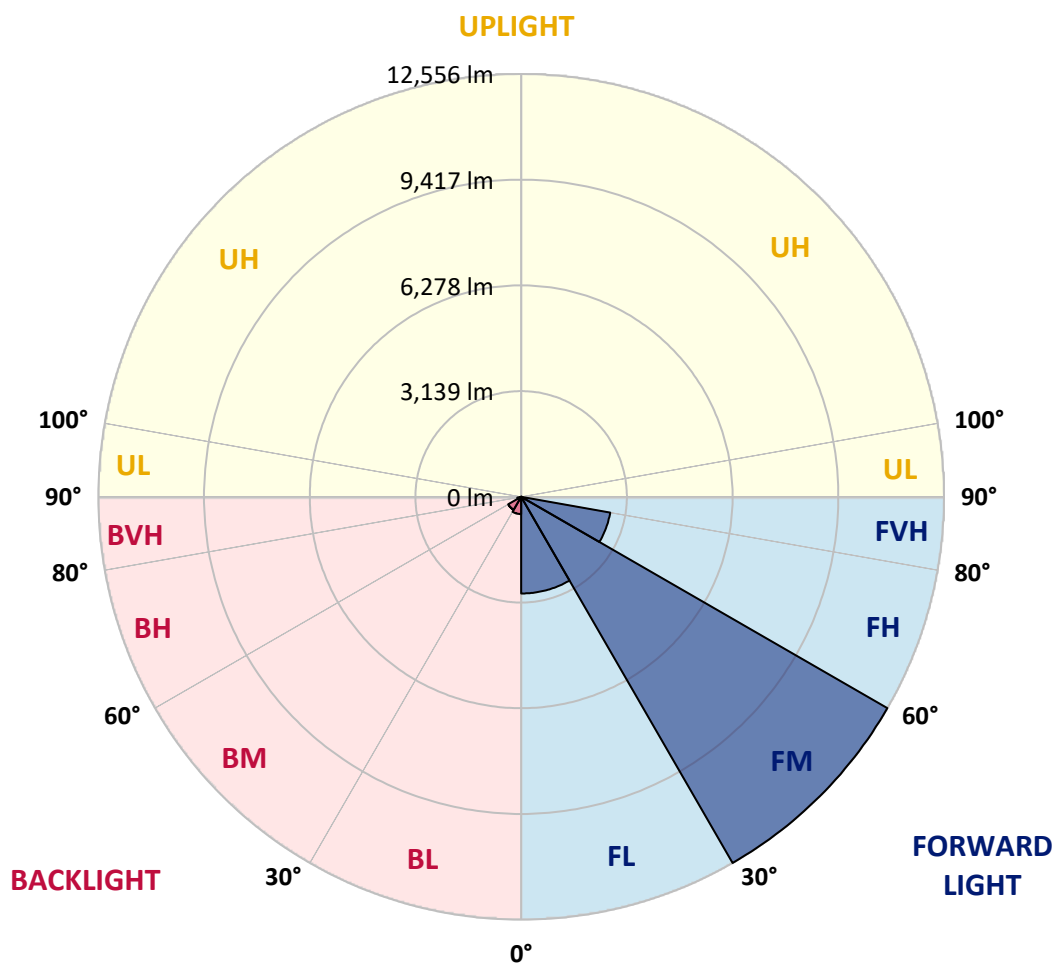
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2871.2	14.9			
FM	(30°-60°)	12556.3	65.3			
FH	(60°-80°)	2685.3	14.0			G2/5000
FVH	(80°-90°)	28.0	0.1			G1/100
BL	(0°-30°)	512.2	2.7	B2/1000		
BM	(30°-60°)	445.4	2.3	B1/1000		
BH	(60°-80°)	115.0	0.6	B1/500		G1/500
BVH	(80°-90°)	0.6	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°	55°	59°	65°	75°	85°
0°	5408.7	5408.7	5408.7	5408.7	5408.7	5408.7	5408.7	5408.7	5408.7	5408.7	5408.7
2.5°	6399.7	6331.7	6311.3	6297.6	6235.3	6157.0	6050.5	6000.6	5898.5	5734.1	5532.3
5°	6985.9	6973.4	6928.1	6903.1	6836.2	6725.1	6555.0	6473.4	6311.3	6034.6	5672.9
7.5°	6729.7	6807.9	6870.3	6974.6	7106.1	7101.6	6958.7	6873.7	6692.2	6327.1	5829.3
10°	5739.8	5803.3	5905.3	6142.3	6625.3	7051.7	7219.5	7158.3	7013.1	6595.9	5980.2
12.5°	5545.9	5539.1	5557.2	5626.4	5879.2	6487.0	7175.3	7298.9	7269.4	6841.9	6123.0
15°	5649.1	5641.1	5638.9	5662.7	5723.9	5980.2	6843.0	7198.0	7425.9	7069.8	6244.4
17.5°	5938.2	5904.2	5886.0	5866.8	5848.6	5912.1	6443.9	6915.6	7449.7	7269.4	6345.3
20°	6433.7	6377.0	6310.1	6201.3	6099.2	6067.5	6276.1	6625.3	7364.6	7421.3	6411.0
22.5°	7056.2	6983.6	6868.0	6669.6	6462.1	6341.9	6358.9	6533.5	7237.6	7586.9	6441.6
25°	7755.8	7662.9	7508.6	7233.1	6928.1	6714.9	6603.8	6665.0	7179.8	7780.8	6476.8
27.5°	8505.3	8402.2	8200.3	7825.0	7479.2	7191.2	6964.4	6956.4	7278.5	8034.8	6533.5
30°	9248.0	9232.2	8969.1	8572.2	8114.1	7763.8	7437.2	7395.3	7554.0	8386.3	6645.7
32.5°	10239.1	10120.0	9798.0	9389.8	8861.4	8440.7	8054.0	7956.5	7976.9	8795.6	6819.2
35°	11488.6	11358.2	10904.7	10341.1	9750.3	9253.7	8826.2	8693.6	8643.7	9465.7	7111.8
37.5°	12295.9	12293.7	12009.1	11435.3	10801.5	10253.8	9788.9	9633.6	9532.6	10275.3	7565.3
40°	12317.5	12370.8	12408.2	12402.5	11951.2	11446.7	11033.9	10842.3	10607.6	11357.1	8151.6
42.5°	11656.4	11793.6	12123.6	12683.7	12951.3	12750.6	12402.5	12214.3	11865.1	12514.8	8865.9
45°	10762.9	10858.2	11435.3	12467.2	13493.3	14043.3	13777.9	13441.2	12980.8	13722.4	9506.6
47.5°	10362.7	10379.7	10752.7	11885.5	13534.2	15102.3	15263.3	14715.7	13994.5	14695.3	10007.7
50°	9166.4	9197.0	9711.8	10877.4	13055.6	15602.4	16755.5	16236.2	15100.1	15444.8	10190.3
52.5°	6908.8	6951.9	7605.0	9220.8	11740.3	15389.2	17823.7	17697.8	16311.1	15811.0	10200.5
55°	4076.3	4133.0	4756.7	6206.9	9234.4	14033.1	17903.0	18365.7	17266.9	16027.6	10184.6
57.5°	1903.8	1943.5	2300.7	3197.6	5743.2	11090.6	16707.9	17907.6	17794.2	16142.1	10296.9
60°	1011.4	1022.8	1108.9	1384.5	2595.5	7032.4	14375.5	16170.5	17313.4	16300.9	10434.1
62.5°	773.3	776.7	772.2	805.1	1090.8	3121.6	10866.1	13293.8	15377.9	16181.8	10282.1
65°	670.1	675.8	644.1	636.1	699.6	1113.5	6455.3	9475.9	12083.9	14575.1	9246.9
67.5°	601.0	603.2	564.7	531.8	543.1	602.1	2546.7	5187.6	7998.5	10683.5	6702.4
70°	553.3	551.1	509.1	457.0	442.2	411.6	809.6	1901.5	3822.4	5417.7	3117.1
72.5°	489.8	491.0	470.6	402.5	367.4	288.0	375.3	554.5	1140.7	1476.3	730.2
75°	434.3	428.6	403.7	360.6	302.7	189.4	186.0	247.2	351.5	349.2	157.6
77.5°	314.1	308.4	316.4	295.9	232.4	122.5	93.0	119.1	142.9	138.3	44.2
80°	230.2	226.8	204.1	246.1	205.2	83.9	57.8	63.5	73.7	62.4	13.6
82.5°	157.6	156.5	144.0	136.1	116.8	51.0	36.3	39.7	47.6	35.2	6.8
85°	24.9	28.3	104.3	82.8	69.2	22.7	24.9	27.2	31.7	19.3	2.3
87.5°	0.0	0.0	48.8	43.1	13.6	9.1	14.7	15.9	15.9	10.2	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°	5408.7	5408.7	5408.7	5408.7	5408.7	5408.7	5408.7	5408.7	5408.7	5408.7	5408.7
2.5°	5429.1	5315.7	5105.9	4889.3	4688.6	4449.4	4285.0	4161.4	4018.5	3980.0	4063.9
5°	5466.5	5252.2	4800.9	4309.9	3848.4	3337.0	2945.9	2636.3	2356.2	2261.0	2347.2
7.5°	5525.5	5206.8	4470.9	3662.5	2859.7	2061.4	1514.9	1155.4	926.4	858.4	894.6
10°	5584.4	5141.1	4088.8	2896.0	1798.4	1003.5	653.1	521.6	472.8	462.6	468.3
12.5°	5633.2	5052.6	3622.8	2059.2	961.5	537.5	427.5	405.9	399.1	399.1	401.4
15°	5662.7	4918.8	3070.6	1309.6	553.3	405.9	373.1	366.2	366.2	367.4	369.6
17.5°	5659.3	4748.7	2466.2	792.6	413.9	359.4	340.2	334.5	333.4	335.6	336.8
20°	5617.3	4526.5	1859.6	522.7	360.6	327.7	308.4	298.2	297.1	299.3	301.6
22.5°	5537.9	4252.1	1330.1	402.5	325.4	297.1	273.3	264.2	264.2	266.5	268.7
25°	5441.6	3916.5	909.4	341.3	293.7	264.2	241.5	233.6	235.8	241.5	242.7
27.5°	5321.4	3538.9	618.0	292.5	255.1	231.3	214.3	208.6	214.3	222.2	224.5
30°	5218.2	3145.4	441.1	252.9	216.6	199.6	189.4	189.4	197.3	212.0	215.4
32.5°	5138.8	2764.4	340.2	223.4	188.2	173.5	167.8	173.5	186.0	200.7	204.1
35°	5128.6	2450.3	288.0	199.6	167.8	153.1	150.8	161.0	173.5	184.8	187.1
37.5°	5206.8	2160.1	259.7	180.3	149.7	136.1	133.8	146.3	158.7	172.4	175.8
40°	5355.4	1932.2	239.3	162.1	134.9	120.2	115.7	124.7	141.7	159.9	164.4
42.5°	5548.1	1743.9	216.6	144.0	120.2	99.8	94.1	104.3	122.5	141.7	147.4
45°	5731.8	1581.8	191.6	123.6	100.9	77.1	74.8	88.4	97.5	116.8	121.3
47.5°	5832.7	1438.9	170.1	100.9	78.2	62.4	62.4	65.8	74.8	97.5	102.1
50°	5798.7	1324.4	147.4	74.8	54.4	47.6	47.6	46.5	60.1	78.2	81.6
52.5°	5730.7	1258.6	127.0	57.8	37.4	34.0	30.6	34.0	42.0	49.9	51.0
55°	5720.5	1247.3	106.6	46.5	26.1	22.7	17.0	17.0	17.0	15.9	13.6
57.5°	5799.9	1265.4	89.6	37.4	19.3	14.7	9.1	0.0	0.0	0.0	0.0
60°	5881.5	1284.7	77.1	26.1	13.6	7.9	1.1	0.0	0.0	0.0	0.0
62.5°	5745.4	1241.6	64.6	15.9	10.2	3.4	0.0	0.0	0.0	0.0	0.0
65°	5047.0	1056.8	51.0	11.3	6.8	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	3589.9	707.5	34.0	6.8	1.1	0.0	0.0	0.0	0.0	0.0	0.0
70°	1638.5	295.9	21.5	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	350.4	91.8	14.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	71.4	66.9	5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	22.7	105.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	13.6	76.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	2.3	11.3	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)