

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: P192655

Luminaire Tested: **GAN-AF-07-LED-U-AFL-7030-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192655
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-07-LED-U-AFL-7030-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 615mA 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: 21962.2 lumens
Efficiency: N/A
Efficacy: 97.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 226
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

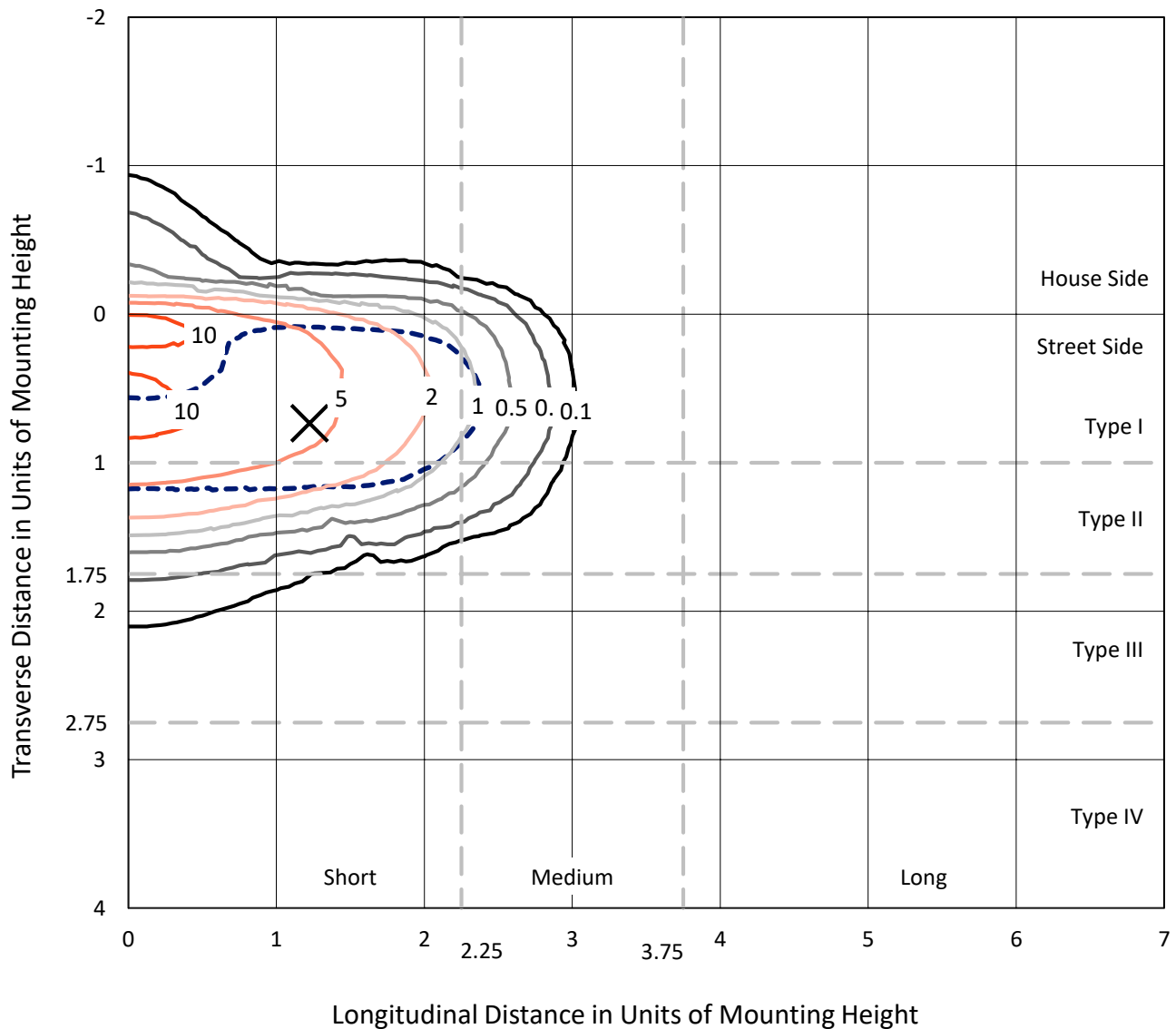


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

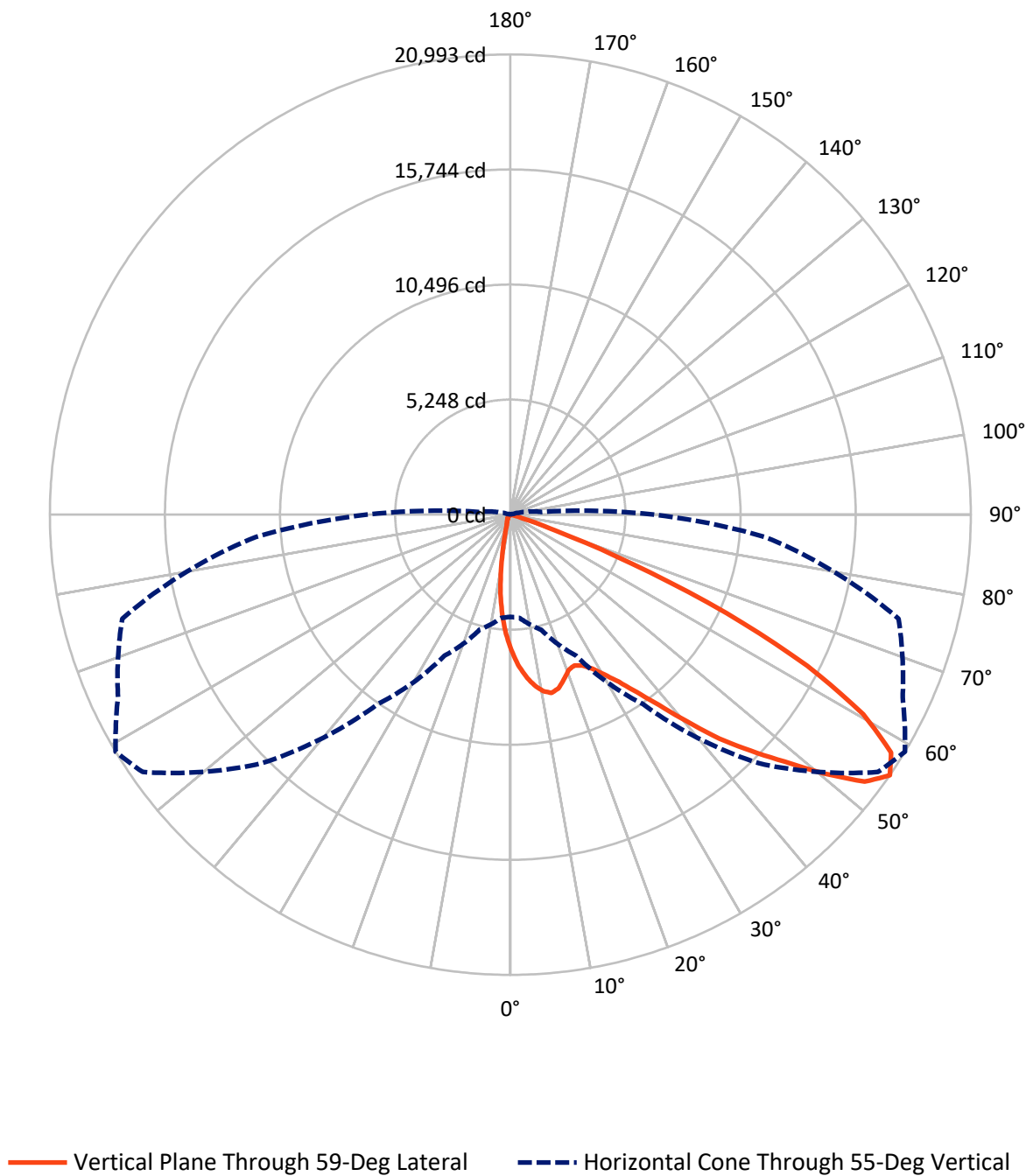


Based on 25 foot mounting height. Maximum calculated value = 12.3 fc
Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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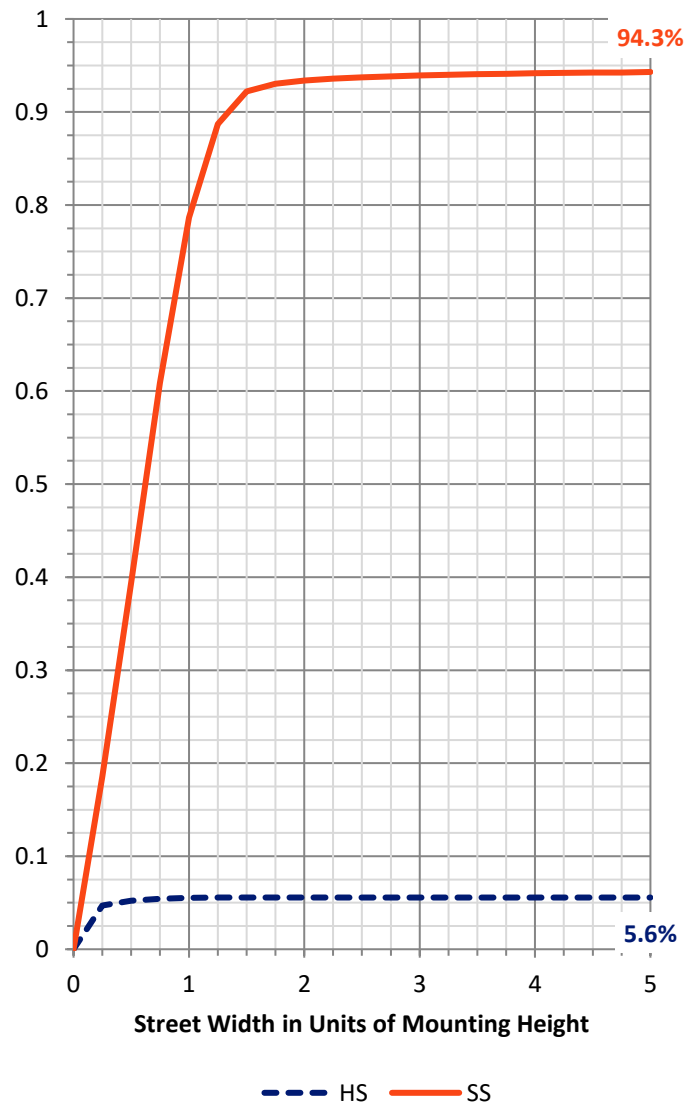
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1226.7	0.0	1226.7
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	20735.5	0.0	20735.5
	% Fixture	94.4	0.0	94.4
Total	Lumens	21962.2	0.0	21962.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	517.8	2.4
10°-20°	1239.8	5.6
20°-30°	2109.7	9.6
30°-40°	3628.3	16.5
40°-50°	5601.6	25.5
50°-60°	5631.4	25.6
60°-70°	2887.8	13.1
70°-80°	313.0	1.4
80°-90°	32.7	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°	21962.2	100.0
0°-180°	21962.2	100.0

Coefficient of Utilization



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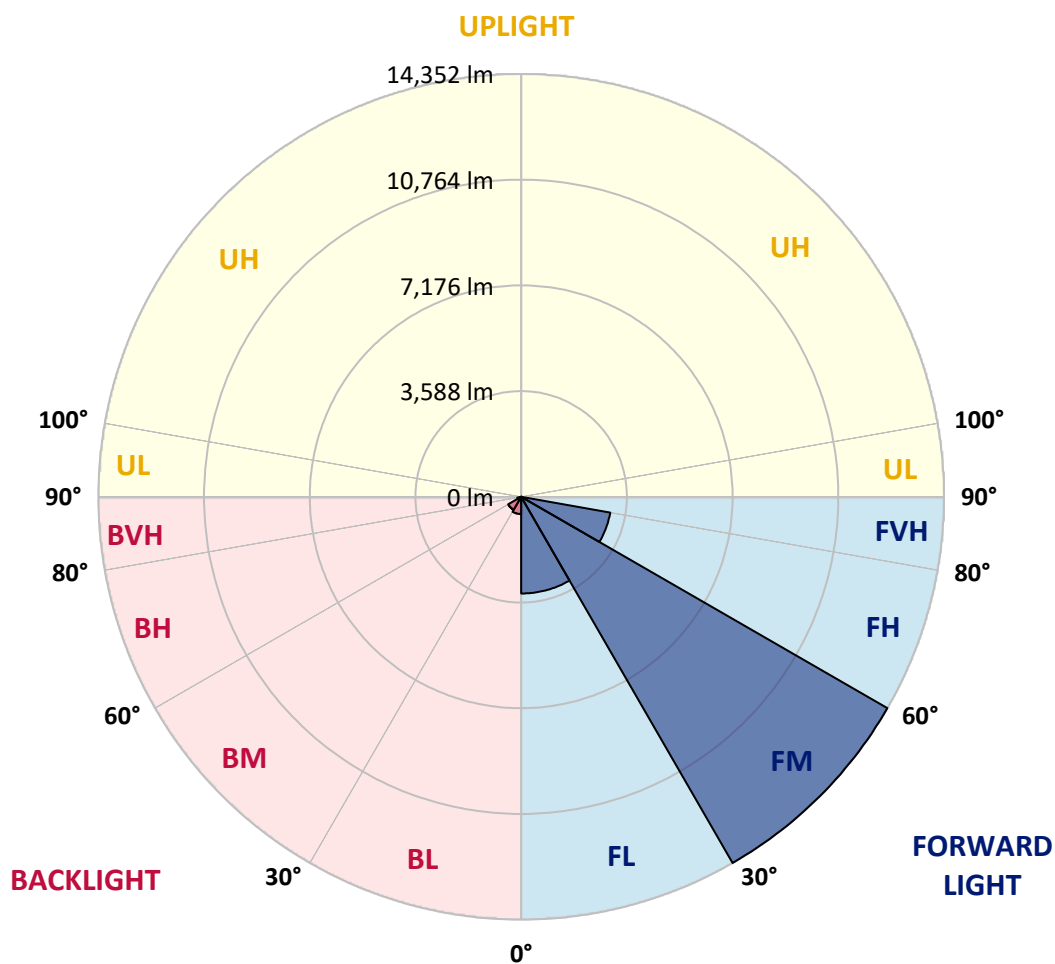
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3281.9	14.9			
FM	(30°-60°)	14352.2	65.3			
FH	(60°-80°)	3069.4	14.0			G2/5000
FVH	(80°-90°)	32.0	0.1			G1/100
BL	(0°-30°)	585.5	2.7	B2/1000		
BM	(30°-60°)	509.1	2.3	B1/1000		
BH	(60°-80°)	131.4	0.6	B1/500		G1/500
BVH	(80°-90°)	0.7	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°	6182.3	6182.3	6182.3	6182.3	6182.3	6182.3	6182.3	6182.3	6182.3	6182.3	6182.3
2.5°	7315.0	7237.4	7214.0	7198.4	7127.1	7037.7	6915.9	6858.9	6742.2	6554.3	6323.6
5°	7985.1	7970.9	7919.0	7890.4	7814.0	7687.1	7492.6	7399.2	7214.0	6897.7	6484.3
7.5°	7692.2	7781.7	7852.9	7972.2	8122.6	8117.3	7954.0	7856.9	7649.5	7232.1	6663.1
10°	6560.7	6633.3	6749.9	7020.9	7573.0	8060.3	8252.2	8182.1	8016.3	7539.3	6835.5
12.5°	6339.1	6331.3	6352.2	6431.1	6720.1	7414.9	8201.5	8342.8	8309.1	7820.6	6998.8
15°	6457.0	6447.9	6445.4	6472.6	6542.6	6835.5	7821.9	8227.4	8488.1	8081.1	7137.5
17.5°	6787.5	6748.6	6727.9	6705.9	6685.1	6757.6	7365.6	7904.8	8515.2	8309.1	7252.8
20°	7353.9	7289.1	7212.6	7088.2	6971.7	6935.3	7173.8	7573.0	8418.0	8482.8	7328.0
22.5°	8065.5	7982.5	7850.3	7623.6	7386.4	7249.0	7268.4	7468.0	8272.9	8672.0	7363.0
25°	8865.2	8758.9	8582.7	8267.6	7919.0	7675.4	7548.4	7618.3	8206.8	8893.7	7403.2
27.5°	9721.9	9603.9	9373.3	8944.2	8548.9	8219.7	7960.5	7951.5	8319.5	9184.0	7468.0
30°	10570.9	10552.7	10251.9	9798.4	9274.7	8874.2	8500.9	8453.0	8634.4	9585.8	7596.2
32.5°	11703.6	11567.5	11199.4	10732.7	10128.9	9648.0	9206.0	9094.5	9117.9	10053.7	7794.5
35°	13131.9	12982.8	12464.4	11820.2	11145.0	10577.3	10088.7	9937.0	9880.0	10819.6	8129.0
37.5°	14054.7	14052.1	13726.8	13070.9	12346.4	11720.5	11189.0	11011.4	10896.1	11745.1	8647.5
40°	14079.2	14140.3	14183.0	14176.5	13660.6	13083.9	12612.2	12393.1	12124.8	12981.5	9317.5
42.5°	13323.6	13480.5	13857.7	14497.9	14803.7	14574.4	14176.5	13961.3	13562.2	14304.8	10134.1
45°	12302.4	12411.2	13070.9	14250.3	15423.2	16052.0	15748.6	15363.7	14837.5	15685.1	10866.3
47.5°	11844.8	11864.3	12290.7	13585.6	15469.9	17262.4	17446.5	16820.5	15996.2	16797.2	11439.1
50°	10477.5	10512.5	11100.8	12433.2	14923.0	17834.0	19152.2	18558.6	17259.8	17653.9	11647.8
52.5°	7897.0	7946.2	8692.7	10539.7	13419.6	17590.3	20373.0	20229.2	18644.0	18072.5	11659.5
55°	4659.4	4724.2	5437.1	7094.7	10555.2	16040.3	20463.7	20992.5	19736.6	18320.0	11641.3
57.5°	2176.1	2221.5	2629.8	3654.9	6564.7	12677.0	19097.7	20468.9	20339.2	18450.9	11769.6
60°	1156.1	1169.1	1267.5	1582.5	2966.7	8038.3	16431.6	18483.4	19789.8	18632.4	11926.5
62.5°	883.9	887.8	882.6	920.2	1246.8	3568.1	12420.3	15195.2	17577.4	18496.3	11752.8
65°	766.0	772.5	736.2	727.1	799.7	1272.8	7378.6	10831.3	13812.2	16659.8	10569.5
67.5°	686.9	689.5	645.4	607.8	620.8	688.3	2911.0	5929.5	9142.5	12211.6	7661.2
70°	632.5	629.9	582.0	522.4	505.5	470.5	925.4	2173.5	4369.1	6192.6	3563.0
72.5°	560.0	561.1	537.9	460.1	419.9	329.2	429.0	633.8	1303.9	1687.5	834.6
75°	496.4	489.9	461.4	412.1	346.1	216.5	212.5	282.6	401.7	399.3	180.2
77.5°	359.0	352.6	361.6	338.2	265.7	140.0	106.3	136.1	163.4	158.1	50.6
80°	263.1	259.2	233.3	281.3	234.6	95.9	66.1	72.5	84.2	71.2	15.6
82.5°	180.2	178.8	164.7	155.4	133.6	58.4	41.5	45.4	54.4	40.2	7.7
85°	28.5	32.4	119.2	94.6	79.1	25.9	28.5	31.1	36.3	22.1	2.6
87.5°	0.0	0.0	55.7	49.2	15.6	10.4	16.8	18.1	18.1	11.7	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°	6182.3	6182.3	6182.3	6182.3	6182.3	6182.3	6182.3	6182.3	6182.3	6182.3	6182.3
2.5°	6205.6	6076.0	5836.2	5588.7	5359.2	5085.8	4897.9	4756.6	4593.3	4549.2	4645.1
5°	6248.4	6003.5	5487.5	4926.4	4398.9	3814.3	3367.2	3013.4	2693.2	2584.4	2682.9
7.5°	6315.7	5951.6	5110.4	4186.4	3268.7	2356.2	1731.5	1320.7	1058.9	981.1	1022.5
10°	6383.2	5876.4	4673.7	3310.2	2055.6	1147.0	746.6	596.2	540.5	528.9	535.3
12.5°	6438.8	5775.3	4140.9	2353.7	1099.0	614.4	488.6	464.1	456.2	456.2	458.8
15°	6472.6	5622.4	3509.7	1497.0	632.5	464.1	426.4	418.7	418.7	419.9	422.5
17.5°	6468.7	5428.0	2819.0	906.0	473.1	410.9	388.9	382.3	381.1	383.6	384.9
20°	6420.7	5174.0	2125.5	597.5	412.1	374.5	352.6	340.9	339.6	342.2	344.7
22.5°	6330.1	4860.3	1520.4	460.1	372.0	339.6	312.4	302.0	302.0	304.7	307.1
25°	6219.9	4476.7	1039.5	390.2	335.7	302.0	276.1	267.0	269.6	276.1	277.4
27.5°	6082.5	4045.1	706.4	334.4	291.6	264.4	245.0	238.5	245.0	254.0	256.6
30°	5964.6	3595.2	504.1	289.0	247.6	228.2	216.5	216.5	225.5	242.3	246.3
32.5°	5873.8	3159.9	388.9	255.3	215.1	198.3	191.9	198.3	212.5	229.5	233.3
35°	5862.2	2800.9	329.2	228.2	191.9	175.0	172.4	184.0	198.3	211.3	213.8
37.5°	5951.6	2469.0	296.7	206.1	171.1	155.4	153.0	167.1	181.5	197.0	200.9
40°	6121.4	2208.5	273.4	185.3	154.3	137.3	132.2	142.6	162.0	182.8	187.9
42.5°	6341.7	1993.3	247.6	164.7	137.3	114.0	107.6	119.2	140.0	162.0	168.5
45°	6551.6	1808.0	219.1	141.3	115.4	88.2	85.5	101.1	111.5	133.6	138.6
47.5°	6667.0	1644.7	194.4	115.4	89.5	71.2	71.2	75.2	85.5	111.5	116.7
50°	6628.1	1513.8	168.5	85.5	62.2	54.4	54.4	53.1	68.8	89.5	93.3
52.5°	6550.4	1438.6	145.2	66.1	42.7	38.9	35.0	38.9	48.0	57.1	58.4
55°	6538.7	1425.8	121.9	53.1	29.8	25.9	19.4	19.4	19.4	18.1	15.6
57.5°	6629.5	1446.4	102.3	42.7	22.1	16.8	10.4	0.0	0.0	0.0	0.0
60°	6722.7	1468.5	88.2	29.8	15.6	9.1	1.3	0.0	0.0	0.0	0.0
62.5°	6567.2	1419.2	73.9	18.1	11.7	4.0	0.0	0.0	0.0	0.0	0.0
65°	5768.8	1208.0	58.4	13.0	7.7	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	4103.3	808.7	38.9	7.7	1.3	0.0	0.0	0.0	0.0	0.0	0.0
70°	1872.8	338.2	24.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	400.4	105.0	16.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	81.6	76.5	6.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	25.9	120.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	15.6	86.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	2.6	13.0	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)