

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: P321457

Luminaire Tested: **GAN-SA3D-830-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321457
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3D-830-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15194 lumens
Efficiency: N/A
Efficacy: 79.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

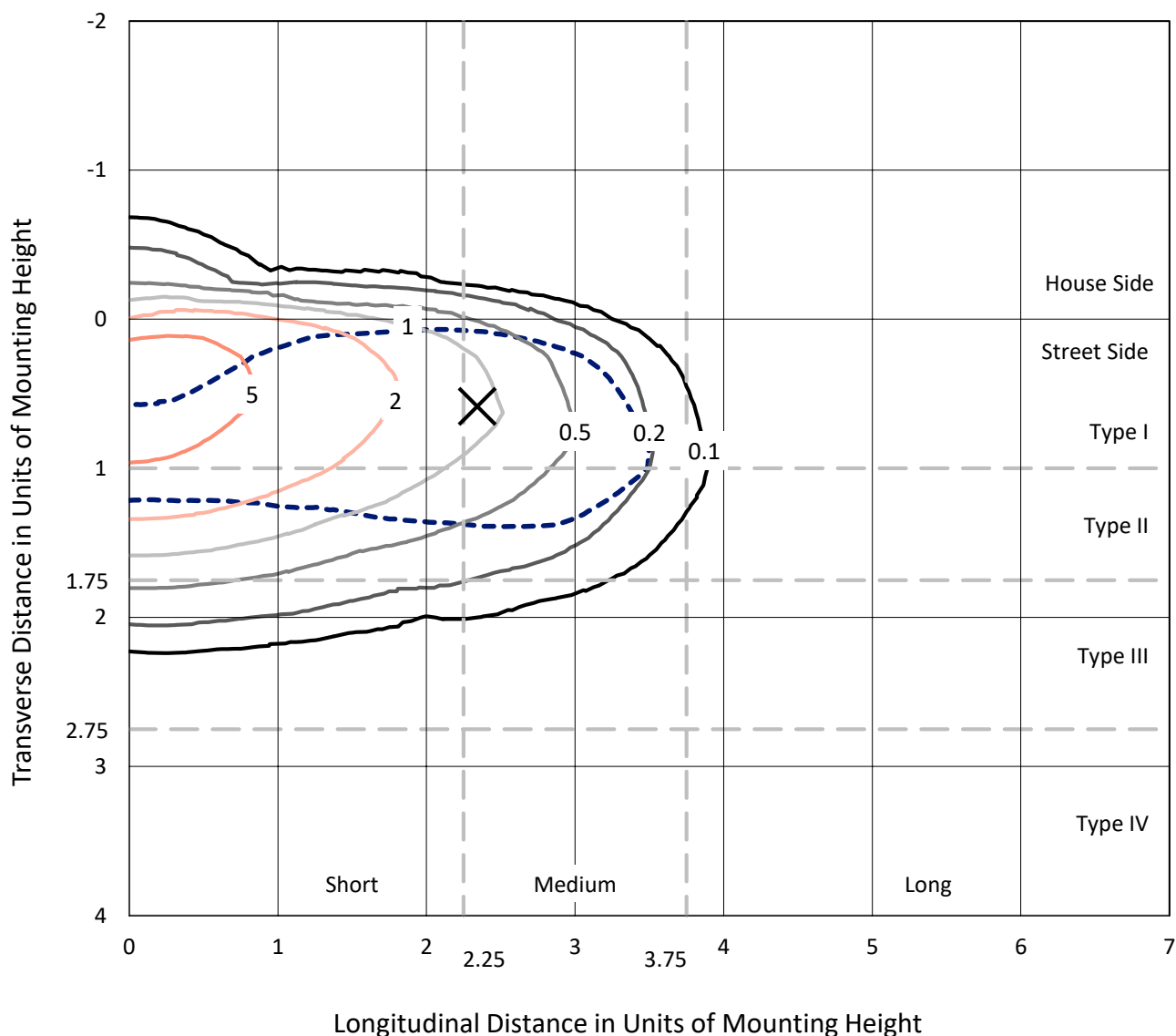
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

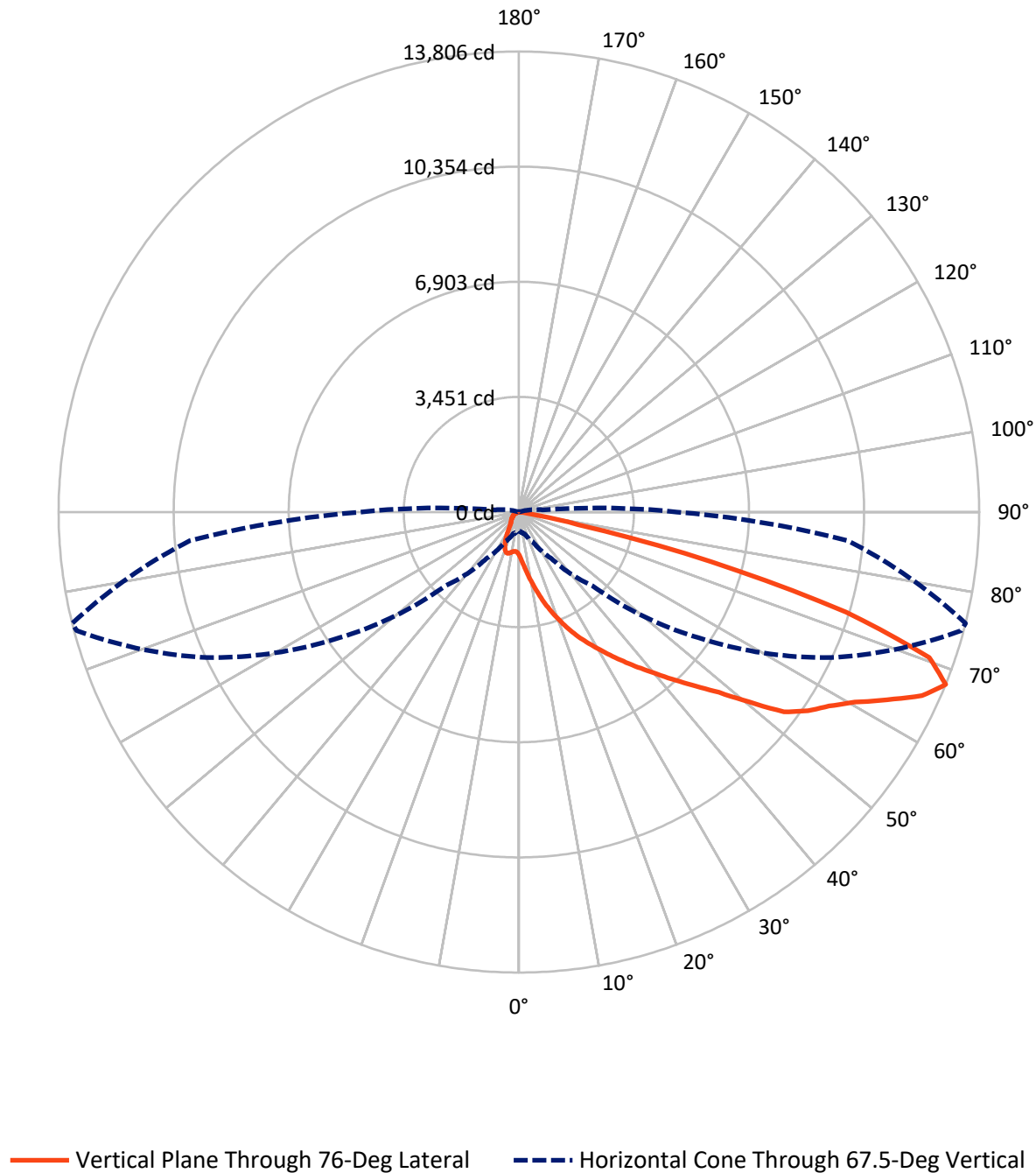
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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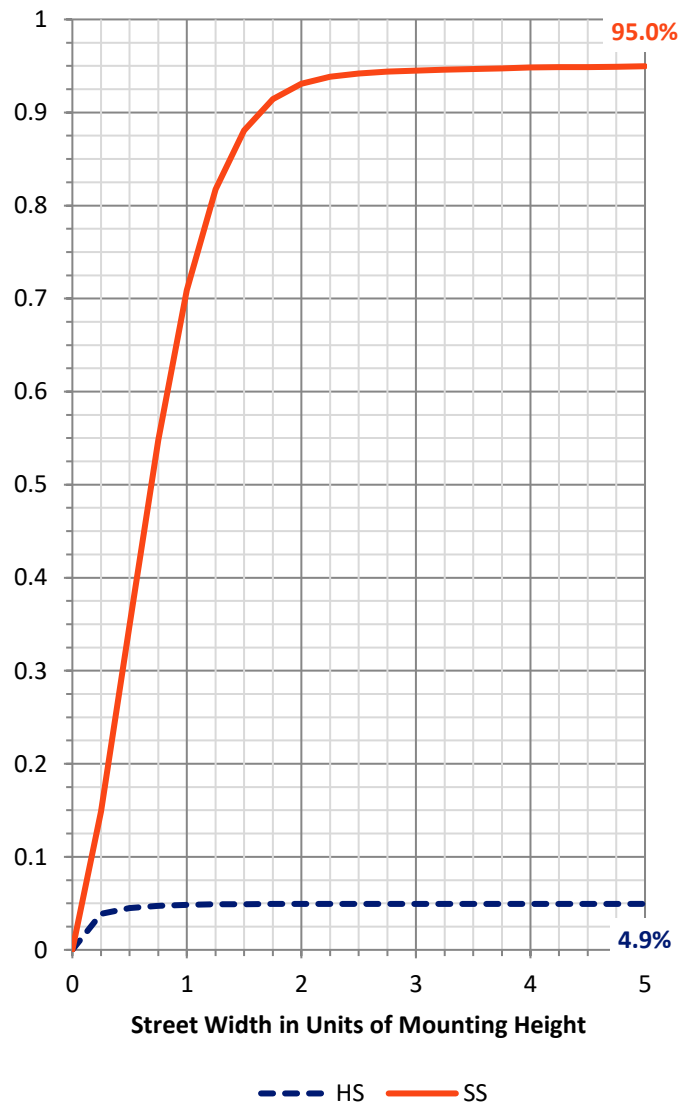
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	754.5	0.0	754.5
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	14439.5	0.0	14439.5
	% Fixture	95.0	0.0	95.0
Total	Lumens	15194.0	0.0	15194.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.3	1.1
10°-20°	635.3	4.2
20°-30°	1292.7	8.5
30°-40°	2243.7	14.8
40°-50°	3170.1	20.9
50°-60°	3595.0	23.7
60°-70°	2981.7	19.6
70°-80°	1080.1	7.1
80°-90°	35.0	0.2
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°	15194.0	100.0
0°-180°	15194.0	100.0

Coefficient of Utilization



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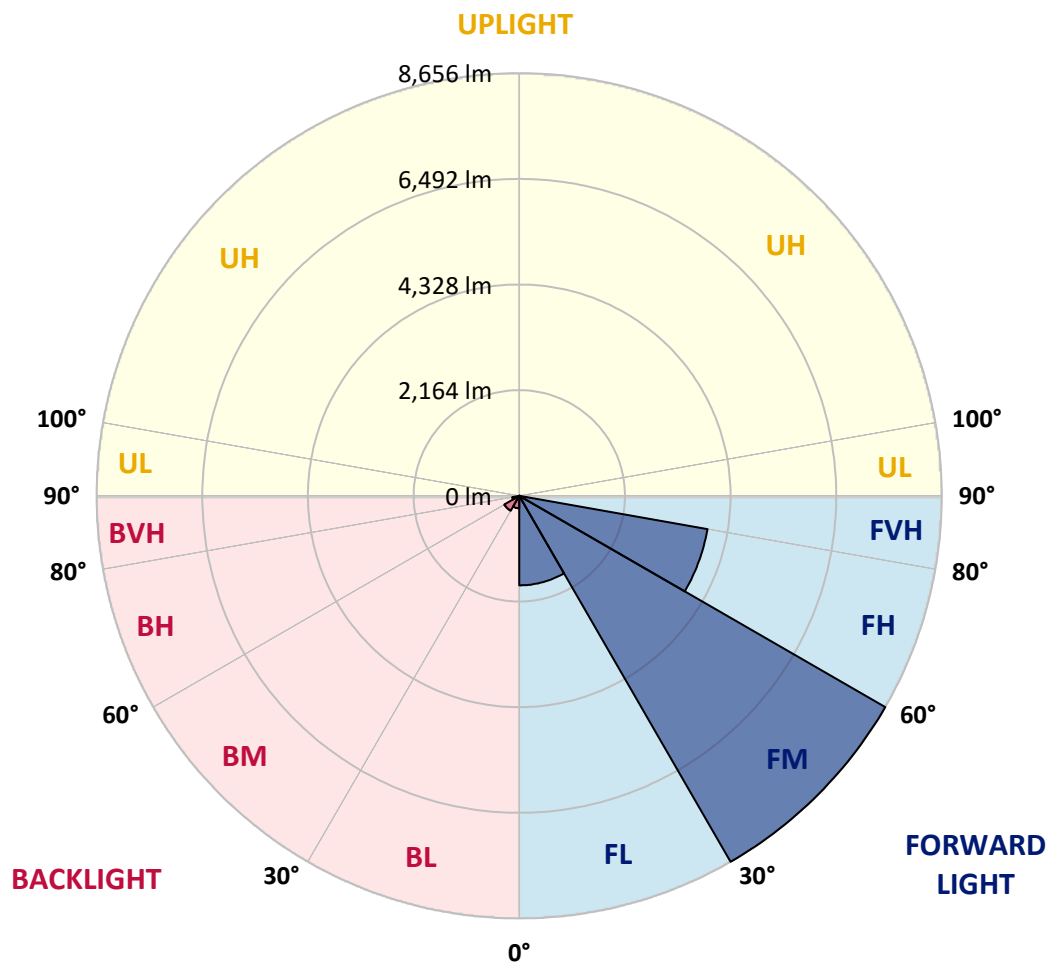
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1833.9	12.1			
FM	(30°-60°)	8655.7	57.0			
FH	(60°-80°)	3916.0	25.8			G2/5000
FVH	(80°-90°)	33.9	0.2			G1/100
BL	(0°-30°)	254.5	1.7	B1/500		
BM	(30°-60°)	353.1	2.3	B1/1000		
BH	(60°-80°)	145.8	1.0	B1/500		G1/500
BVH	(80°-90°)	1.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1288.9	1288.9	1288.9	1288.9	1288.9	1288.9	1288.9	1288.9	1288.9	1288.9	1288.9
2.5°	1924.0	1880.7	1890.7	1862.8	1812.2	1708.3	1619.8	1535.9	1438.0	1434.7	1354.1
5°	2594.4	2557.8	2553.1	2496.6	2404.7	2228.3	2056.5	1860.8	1642.4	1626.4	1455.3
7.5°	3202.9	3173.6	3163.0	3095.7	2924.6	2752.9	2529.2	2241.6	1900.0	1870.8	1591.8
10°	3670.3	3656.3	3659.0	3611.0	3464.6	3304.8	3011.2	2644.4	2192.3	2147.0	1755.6
12.5°	4024.5	4027.8	4051.8	4022.5	3940.6	3822.1	3508.5	3073.8	2515.9	2454.0	1942.7
15°	4284.8	4301.4	4345.3	4382.0	4376.0	4273.4	3985.8	3509.8	2859.4	2790.8	2151.0
17.5°	4453.2	4471.8	4535.8	4617.0	4691.5	4667.6	4446.5	3930.6	3206.9	3127.7	2374.1
20°	4601.0	4623.0	4691.5	4798.7	4937.9	4967.8	4822.7	4338.7	3553.8	3457.2	2604.4
22.5°	4921.2	4920.6	4962.5	5025.1	5157.6	5234.8	5142.9	4717.5	3896.6	3796.1	2839.4
25°	5500.4	5478.5	5463.8	5414.5	5443.8	5491.8	5440.5	5071.7	4241.5	4139.6	3077.8
27.5°	6188.8	6202.1	6083.6	5951.1	5848.6	5799.3	5715.5	5399.9	4573.0	4461.2	3310.8
30°	6915.1	6919.1	6779.3	6610.2	6384.5	6197.5	6052.3	5713.5	4913.9	4792.1	3537.1
32.5°	7570.2	7544.3	7405.8	7175.4	6890.5	6680.1	6378.5	6063.6	5274.7	5156.9	3788.8
35°	8089.5	8058.9	7890.5	7680.8	7385.2	7173.5	6810.6	6413.2	5654.2	5539.0	4041.1
37.5°	8469.0	8433.1	8260.0	8044.3	7789.3	7666.1	7311.9	6793.3	6068.3	5944.5	4306.7
40°	8600.8	8569.5	8461.0	8303.2	8098.2	8070.2	7843.9	7230.7	6519.0	6387.2	4607.7
42.5°	8522.3	8491.6	8453.0	8399.8	8314.5	8341.2	8345.8	7729.4	7019.7	6889.8	4939.9
45°	8210.7	8183.4	8223.3	8301.2	8407.1	8538.9	8803.9	8265.3	7578.9	7440.4	5324.0
47.5°	7752.0	7732.0	7842.5	8036.9	8346.5	8710.0	9222.6	8828.5	8206.7	8078.2	5803.3
50°	7099.6	7096.2	7317.3	7672.1	8148.1	8792.6	9655.4	9469.0	9078.8	8943.7	6469.8
52.5°	6083.6	6090.3	6525.0	7092.9	7799.9	8736.6	9933.7	10291.8	10093.4	9953.0	7047.0
55°	5116.3	5156.2	5464.5	6283.3	7266.0	8528.9	10029.5	10676.0	10653.3	10520.2	7367.9
57.5°	4168.9	4241.5	4538.4	5303.4	6486.4	8050.2	9976.9	10842.4	11070.1	10968.2	7791.3
60°	3142.3	3175.6	3517.8	4232.8	5485.8	7176.8	9595.4	10932.9	11640.0	11569.4	8405.8
62.5°	1999.2	2082.5	2386.0	3075.8	4271.4	5963.8	8952.3	10931.6	12353.0	12391.6	9198.7
65°	1053.2	1150.4	1311.5	1906.0	2935.3	4609.0	7985.0	10829.1	13227.8	13281.7	9818.5
67.5°	567.9	595.8	681.1	989.3	1702.3	3122.4	6563.6	10323.1	13734.4	13805.6	9905.0
70°	415.4	430.7	462.7	547.2	856.8	1813.5	4789.4	9176.0	13081.3	13054.7	8800.5
72.5°	318.9	342.9	366.8	400.8	492.7	968.0	2981.9	7185.4	10437.6	10261.9	6578.3
75°	251.7	255.6	289.6	320.2	369.5	551.2	1324.2	4184.9	6370.6	5954.5	3411.3
77.5°	201.1	203.7	223.7	250.3	296.9	362.2	410.1	1646.4	2033.9	1814.8	740.3
80°	119.2	125.8	166.4	193.1	246.3	228.4	149.8	357.5	317.6	287.6	124.5
82.5°	66.6	71.9	93.9	152.5	171.8	109.2	74.6	96.5	74.6	72.6	35.3
85°	0.0	3.3	60.6	94.5	69.9	24.0	31.3	32.0	22.0	20.6	14.0
87.5°	0.0	0.0	18.6	18.0	2.7	4.0	7.3	10.7	8.7	8.7	7.3
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°	1288.9	1288.9	1288.9	1288.9	1288.9	1288.9	1288.9	1288.9	1288.9	1288.9	1288.9
2.5°	1314.2	1278.2	1210.3	1143.8	1087.8	1041.9	1000.6	984.0	970.7	968.7	958.0
5°	1372.8	1300.2	1170.4	1063.9	992.6	942.0	898.8	872.1	851.5	843.5	836.2
7.5°	1461.3	1351.5	1165.1	1042.6	957.3	872.1	792.2	705.7	651.8	631.1	619.1
10°	1569.2	1419.4	1185.0	1036.6	887.4	707.7	575.2	465.4	420.8	406.1	402.1
12.5°	1695.0	1503.9	1219.7	999.3	738.3	502.6	396.8	359.5	349.5	344.9	344.9
15°	1839.5	1596.5	1244.3	891.4	545.9	380.1	343.5	326.2	315.6	309.6	310.2
17.5°	1987.3	1687.0	1232.3	735.0	402.8	338.2	310.9	292.3	277.6	271.6	270.3
20°	2136.4	1770.9	1165.7	547.2	340.9	306.9	276.3	255.6	241.0	235.0	233.7
22.5°	2290.8	1842.1	1048.6	401.4	306.2	272.3	242.3	221.7	207.7	202.4	199.7
25°	2441.3	1900.0	884.8	324.9	273.6	239.7	211.0	191.7	179.1	173.8	173.1
27.5°	2581.8	1936.7	695.0	286.9	245.0	210.4	184.4	167.1	156.5	152.5	151.8
30°	2708.3	1940.0	514.0	259.0	219.7	185.1	161.1	145.8	136.5	132.5	131.2
32.5°	2836.1	1912.0	374.2	233.7	196.4	163.1	139.8	127.8	121.2	117.8	117.8
35°	2956.6	1847.5	291.6	211.7	173.8	141.8	123.2	114.5	110.5	107.2	107.2
37.5°	3074.4	1754.9	247.7	192.4	152.5	123.8	108.5	103.2	99.9	96.5	96.5
40°	3194.3	1638.4	225.0	174.4	135.1	109.8	96.5	91.9	88.5	85.9	85.2
42.5°	3341.4	1503.9	210.4	157.8	119.8	97.2	85.2	79.9	77.2	74.6	73.2
45°	3511.8	1388.1	198.4	141.1	107.2	86.5	73.9	68.6	64.6	61.2	60.6
47.5°	3757.5	1304.2	182.4	123.2	95.2	75.2	63.9	57.9	51.9	48.6	47.9
50°	4071.1	1235.0	161.8	107.2	83.2	63.9	53.3	45.9	40.6	37.3	37.3
52.5°	4226.8	1144.4	143.1	93.2	69.9	53.9	43.3	34.6	32.0	28.6	28.6
55°	4289.4	1075.2	124.5	79.2	57.9	44.6	34.0	26.6	24.6	22.6	22.0
57.5°	4465.2	1055.2	108.5	67.2	47.9	35.3	26.0	20.0	18.6	16.0	16.0
60°	4748.1	1065.2	93.9	57.3	38.6	27.3	19.3	15.3	14.0	11.3	11.3
62.5°	5053.7	1052.6	79.2	49.3	30.0	20.0	13.3	11.3	11.3	6.7	6.0
65°	5112.3	937.4	67.9	40.6	23.3	14.6	8.7	7.3	10.0	1.3	0.0
67.5°	4744.8	727.0	58.6	31.3	17.3	11.3	6.7	3.3	8.7	0.0	0.0
70°	3794.1	462.0	47.3	22.6	13.3	9.3	5.3	1.3	6.7	0.0	0.0
72.5°	2683.0	268.3	37.3	16.0	11.3	7.3	4.0	0.0	4.0	0.0	0.0
75°	1356.8	143.1	23.3	12.0	8.7	5.3	2.7	0.0	0.7	0.0	0.0
77.5°	293.6	66.6	14.6	8.7	6.0	3.3	1.3	0.0	0.0	0.0	0.0
80°	63.9	29.3	9.3	5.3	3.3	2.0	0.0	0.0	0.0	0.0	0.0
82.5°	23.3	15.3	4.7	2.7	1.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	12.6	8.0	2.7	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.7	2.7	0.7	0.7	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)