

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: P318238

Luminaire Tested: **GAN-SA4B-830-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318238
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4B-830-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17976 lumens
Efficiency: N/A
Efficacy: 105.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

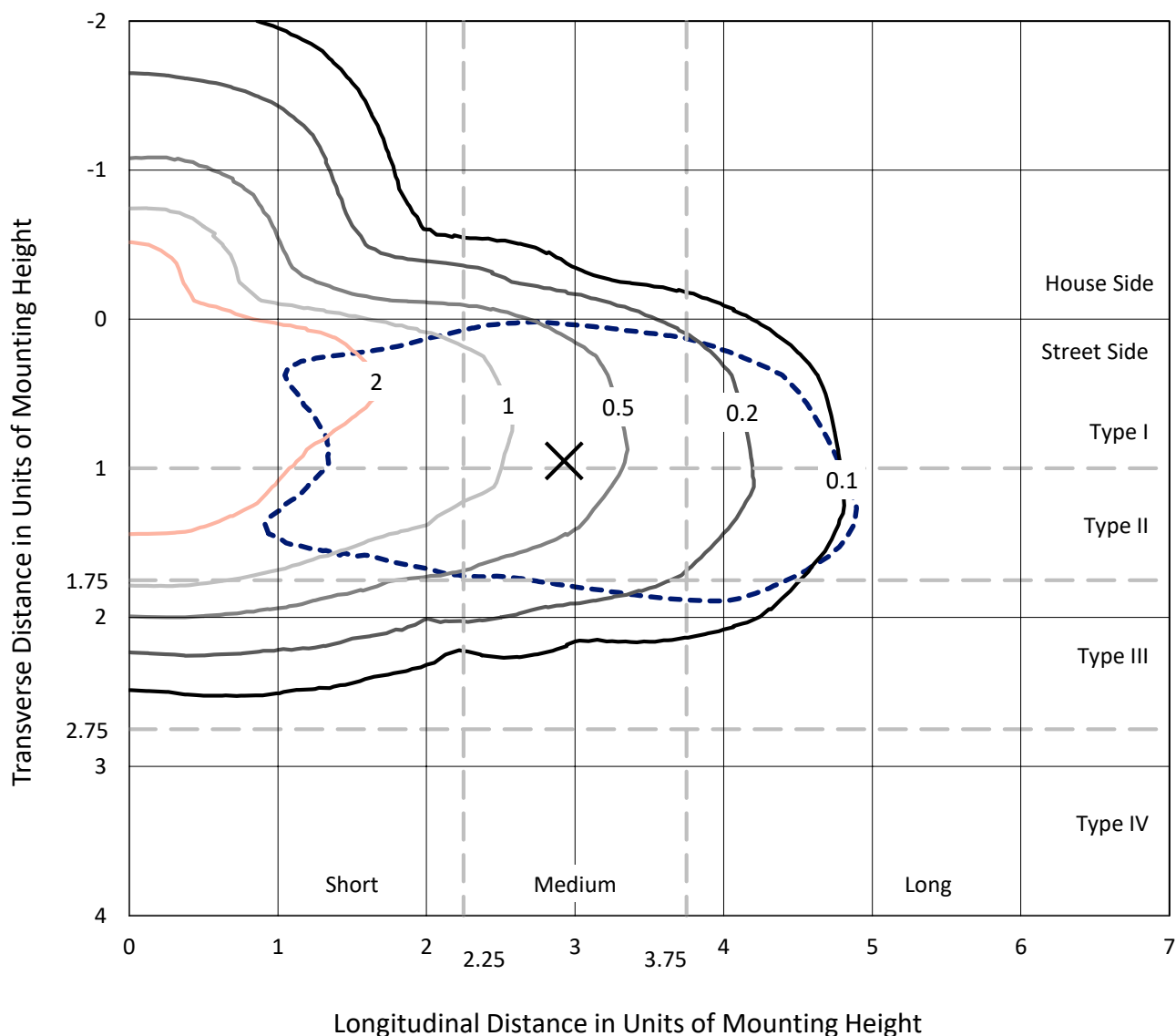
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

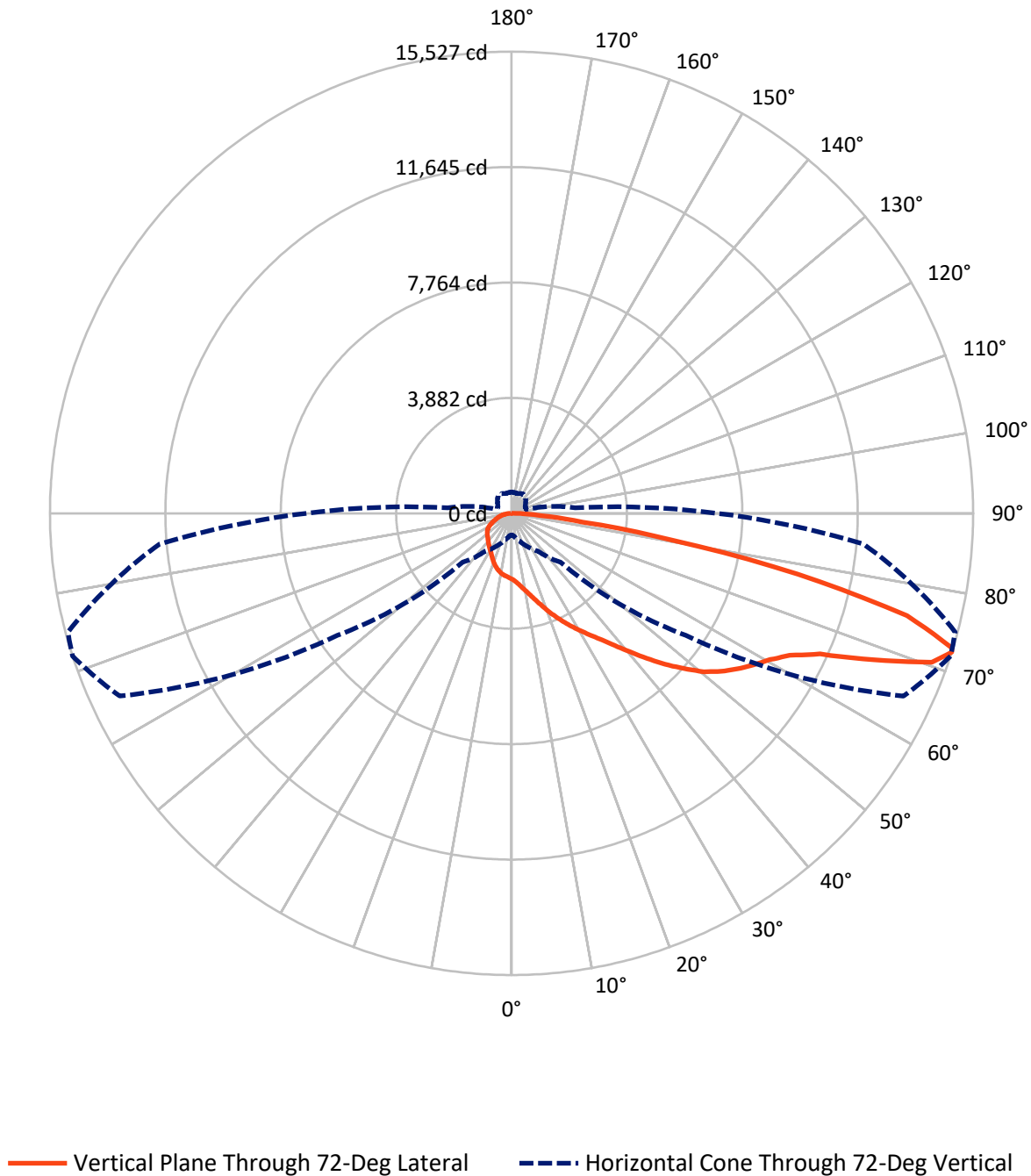
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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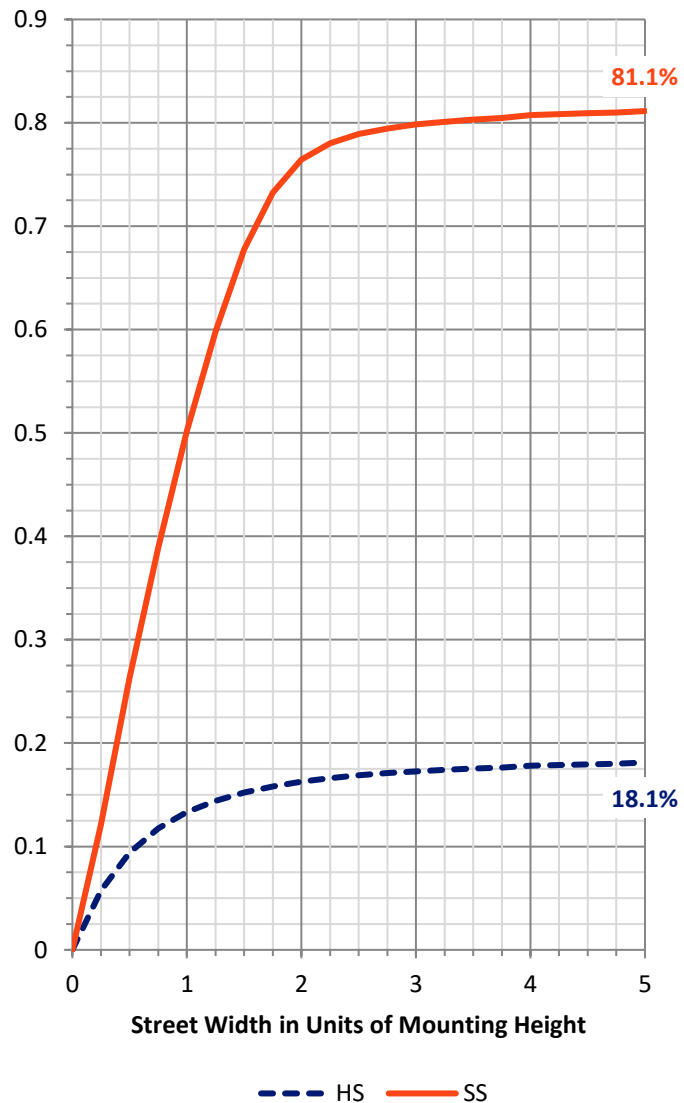
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3334.7	0.0	3334.7
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	14641.3	0.0	14641.3
	% Fixture	81.4	0.0	81.4
Total	Lumens	17976.0	0.0	17976.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.6	1.2
10°-20°	716.1	4.0
20°-30°	1254.8	7.0
30°-40°	1860.5	10.4
40°-50°	2721.2	15.1
50°-60°	3744.3	20.8
60°-70°	4168.6	23.2
70°-80°	2824.6	15.7
80°-90°	464.2	2.6
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°	17976.0	100.0
0°-180°	17976.0	100.0

Coefficient of Utilization



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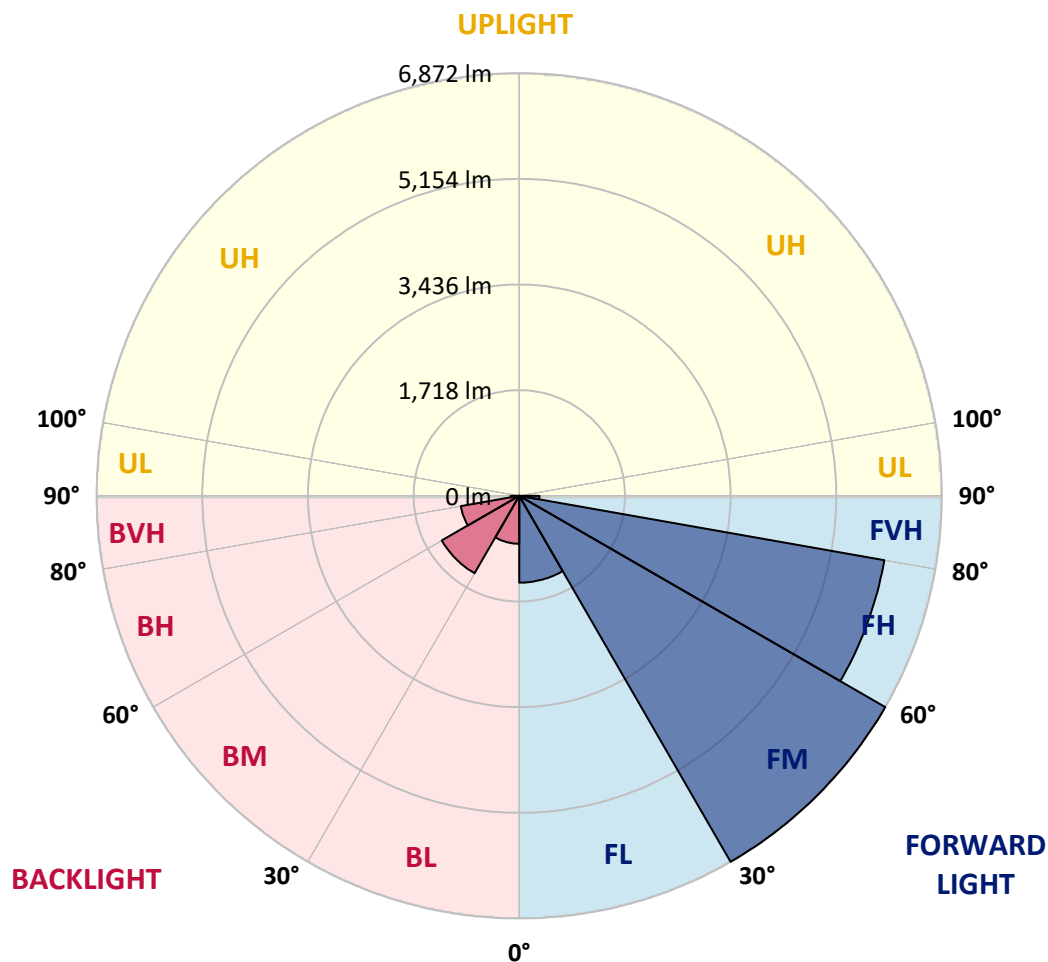
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1413.0	7.9			
FM	(30°-60°)	6872.4	38.2			
FH	(60°-80°)	6028.4	33.5			G3/7500
FVH	(80°-90°)	327.5	1.8			G3/500
BL	(0°-30°)	779.5	4.3	B2/1000		
BM	(30°-60°)	1453.6	8.1	B2/2500		
BH	(60°-80°)	964.8	5.4	B2/1000		G2/1000
BVH	(80°-90°)	136.8	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	2211.5	2211.5	2211.5	2211.5	2211.5	2211.5	2211.5	2211.5	2211.5	2211.5	2211.5
2.5°	2443.0	2439.3	2426.3	2426.3	2401.5	2380.5	2340.9	2314.3	2282.7	2271.6	2234.4
5°	2679.4	2680.7	2664.6	2653.4	2616.9	2572.4	2504.9	2443.6	2382.3	2357.6	2281.5
7.5°	2878.1	2875.7	2871.3	2862.0	2828.0	2782.2	2691.2	2600.2	2509.9	2472.7	2341.5
10°	3005.6	3011.2	3014.9	3019.2	3005.0	2972.2	2886.2	2775.4	2657.2	2606.4	2413.3
12.5°	3070.0	3079.9	3097.2	3126.9	3150.5	3146.8	3084.2	2966.6	2826.1	2762.4	2503.0
15°	3107.8	3120.8	3148.0	3201.2	3267.4	3305.2	3288.5	3182.0	3025.4	2946.8	2612.6
17.5°	3131.3	3141.8	3183.9	3255.1	3353.5	3453.8	3497.7	3408.6	3250.7	3161.0	2738.2
20°	3147.4	3155.4	3208.0	3291.6	3419.1	3578.8	3701.3	3679.1	3498.9	3382.6	2869.5
22.5°	3183.3	3190.1	3240.2	3324.4	3465.5	3671.6	3897.5	3931.0	3760.8	3628.9	3010.0
25°	3283.5	3283.5	3325.6	3384.4	3516.9	3752.1	4063.4	4211.4	4028.1	3874.6	3139.9
27.5°	3474.8	3472.9	3488.4	3508.8	3609.1	3833.8	4211.4	4458.9	4305.4	4137.7	3266.2
30°	3701.3	3713.7	3715.6	3705.7	3752.7	3935.9	4348.1	4720.1	4584.6	4403.8	3395.6
32.5°	3992.9	4000.9	3991.6	3958.8	3952.0	4080.8	4482.5	4993.7	4886.6	4681.8	3513.8
35°	4363.0	4347.5	4318.4	4251.6	4187.8	4274.5	4636.0	5267.3	5225.8	5017.8	3676.6
37.5°	4759.7	4760.4	4724.5	4572.8	4484.9	4522.1	4847.6	5577.4	5636.2	5417.7	3885.2
40°	5077.9	5094.6	5116.9	4917.6	4803.7	4855.1	5116.9	5937.0	6121.4	5891.8	4156.9
42.5°	5300.1	5319.3	5382.4	5257.4	5139.2	5234.5	5433.8	6320.7	6666.1	6439.0	4475.0
45°	5535.3	5545.8	5590.4	5536.5	5461.0	5675.8	5790.9	6718.1	7242.4	7022.0	4830.9
47.5°	5782.9	5794.0	5839.8	5803.9	5764.3	6088.0	6163.5	7092.6	7794.5	7662.6	5211.0
50°	6088.6	6096.1	6139.4	6074.4	6086.8	6398.7	6496.5	7436.1	8373.2	8238.3	5592.2
52.5°	6505.8	6507.7	6567.7	6508.9	6450.7	6626.5	6783.1	7759.8	8826.9	8763.1	5973.5
55°	6832.6	6852.4	7049.2	7036.9	7003.4	6833.2	7022.6	8068.0	9231.7	9262.0	6378.3
57.5°	6624.0	6701.4	7100.0	7381.0	7654.6	7347.6	7346.3	8415.3	9608.0	9751.6	6823.3
60°	5801.4	5906.7	6494.0	7117.3	7973.3	8242.6	8018.5	8839.3	9988.0	10236.9	7381.0
62.5°	4143.3	4316.6	5112.5	6107.8	7536.4	8835.5	9386.4	9512.1	10504.9	10798.9	8105.8
65°	2094.5	2225.8	2893.0	4091.9	6021.2	8448.1	10873.1	10985.2	11403.0	11664.2	9221.8
67.5°	1272.6	1322.1	1647.7	2275.9	3691.4	6580.7	11358.4	13440.6	13141.0	13279.6	10813.1
70°	937.7	974.2	1177.2	1511.5	2123.0	3861.6	9869.2	15192.8	14996.0	14980.5	11989.1
72°	730.4	757.0	936.5	1221.2	1552.3	2316.7	7153.2	14546.0	15527.0	15449.1	11881.4
72.5°	692.6	716.1	879.5	1149.4	1466.9	2100.1	6431.5	14109.6	15488.7	15453.4	11742.1
75°	545.3	562.0	651.1	888.8	1148.2	1191.5	3524.3	10934.4	13740.1	14311.4	10561.2
77.5°	451.2	453.7	500.7	646.8	895.0	842.4	1731.2	7586.5	9838.9	10467.1	7481.3
80°	367.7	370.8	393.0	453.7	677.1	623.3	822.0	4362.4	5508.7	5515.5	3557.7
82.5°	292.8	293.4	318.1	331.8	486.5	445.6	471.0	2048.1	2407.1	2315.5	1278.8
85°	206.1	201.8	310.7	272.3	318.1	286.0	260.0	810.8	995.3	951.9	400.5
87.5°	68.7	71.2	138.0	176.4	185.7	162.2	115.7	310.7	375.7	372.6	126.9
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°	2211.5	2211.5	2211.5	2211.5	2211.5	2211.5	2211.5	2211.5	2211.5	2211.5	2211.5
2.5°	2222.7	2202.9	2173.8	2141.6	2116.2	2090.2	2071.0	2061.1	2050.0	2040.7	2051.8
5°	2246.2	2209.0	2147.1	2086.5	2041.9	2002.3	1973.8	1959.0	1945.4	1936.1	1937.3
7.5°	2284.6	2224.5	2120.5	2032.0	1970.1	1927.4	1898.3	1888.4	1879.8	1877.3	1880.4
10°	2325.4	2236.9	2085.3	1967.6	1897.1	1861.8	1848.8	1855.6	1861.8	1867.4	1873.6
12.5°	2371.8	2248.0	2033.9	1892.1	1832.1	1818.5	1831.5	1861.2	1882.9	1895.9	1903.9
15°	2432.5	2257.9	1974.5	1816.6	1776.4	1791.9	1835.8	1887.2	1924.9	1949.1	1952.8
17.5°	2488.2	2257.3	1898.3	1740.5	1731.2	1776.4	1842.6	1915.0	1965.8	1999.8	2006.6
20°	2545.8	2240.6	1809.8	1666.2	1685.4	1759.7	1845.7	1933.0	1994.3	2033.9	2043.2
22.5°	2599.6	2211.5	1712.6	1598.8	1647.0	1737.4	1834.0	1922.5	1983.7	2015.9	2025.8
25°	2636.1	2160.8	1614.2	1541.8	1613.0	1710.2	1795.6	1866.8	1912.6	1928.7	1931.1
27.5°	2654.7	2094.5	1521.4	1492.3	1577.7	1665.6	1724.4	1759.7	1772.7	1771.4	1769.0
30°	2657.2	2007.3	1441.5	1452.1	1536.9	1600.0	1627.8	1621.0	1604.3	1575.9	1578.3
32.5°	2649.1	1908.8	1374.7	1413.7	1484.9	1520.1	1521.4	1488.6	1444.0	1398.8	1386.5
35°	2651.6	1812.3	1315.9	1370.4	1421.7	1437.2	1423.0	1374.7	1314.0	1255.9	1243.5
37.5°	2678.8	1728.1	1265.1	1320.2	1351.8	1355.5	1335.1	1284.3	1239.8	1182.8	1177.9
40°	2743.8	1668.1	1216.9	1263.9	1281.9	1283.7	1254.6	1218.7	1222.4	1192.1	1191.5
42.5°	2860.8	1642.1	1174.2	1205.1	1216.2	1220.0	1197.7	1174.8	1207.0	1187.2	1180.3
45°	3011.8	1648.3	1138.3	1147.5	1168.0	1185.3	1171.7	1143.8	1156.2	1070.2	1041.7
47.5°	3186.4	1687.9	1109.8	1098.0	1133.3	1166.1	1145.1	1103.0	1059.0	973.6	957.5
50°	3390.6	1749.2	1083.8	1049.1	1095.5	1140.1	1119.1	1059.0	992.8	951.3	945.8
52.5°	3603.5	1824.1	1057.8	995.3	1047.9	1120.3	1109.8	1049.1	967.4	926.6	919.1
55°	3844.9	1899.6	1025.0	932.8	996.5	1111.0	1105.4	1013.2	948.2	925.3	919.8
57.5°	4145.1	1985.6	981.7	867.8	948.2	1077.6	1060.3	991.6	928.4	911.1	909.2
60°	4536.3	2112.5	919.1	798.4	889.4	1026.2	1022.5	960.0	896.9	884.5	882.0
62.5°	5123.1	2322.3	833.1	729.1	823.8	939.0	973.0	917.3	863.4	862.8	864.1
65°	6032.9	2638.0	739.6	668.5	757.6	865.3	915.4	873.3	829.4	841.8	843.6
67.5°	7087.6	2899.8	648.0	609.0	690.1	795.4	863.4	829.4	784.2	816.4	817.0
70°	7438.6	2665.8	567.6	550.2	620.2	727.9	807.1	781.1	735.3	767.5	764.4
72°	6922.4	2152.1	515.6	505.7	567.6	672.2	757.0	735.9	690.8	712.4	704.4
72.5°	6759.6	2051.8	502.6	494.5	553.3	657.9	744.0	724.8	679.6	698.2	690.8
75°	6029.8	1782.0	432.0	433.9	482.8	588.6	670.9	664.8	618.3	620.2	617.7
77.5°	4373.5	1306.6	363.9	376.3	411.0	517.4	597.3	593.6	542.8	533.5	531.7
80°	2029.5	666.6	296.5	302.0	337.9	432.6	509.4	504.4	463.6	451.8	445.0
82.5°	695.1	316.9	222.8	226.5	261.8	348.5	441.9	438.8	404.8	381.9	367.7
85°	248.2	157.8	156.0	152.3	186.9	274.2	385.0	368.3	318.1	271.1	269.9
87.5°	80.5	67.5	80.5	79.8	108.9	185.7	279.8	238.3	230.9	191.9	188.2
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)