

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: McGRAW-EDISON

Report Number: P193935

Luminaire Tested: **GLEON-AF-07-LED-E1-T2R-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193935
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24657)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-07-LED-E1-T2R-8030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23582 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

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: 25 FT

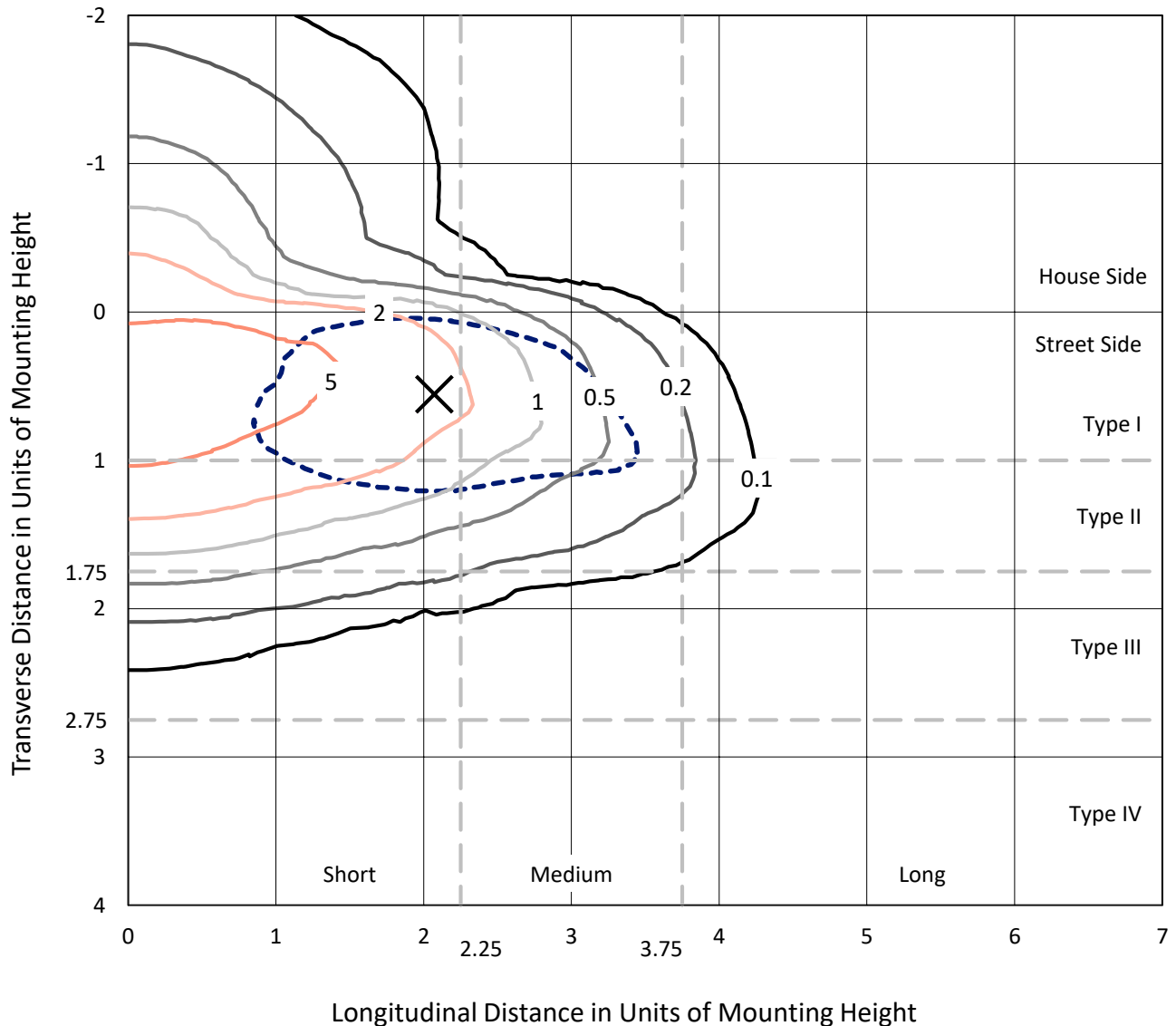


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Iso-Footcandle Lines of Horizontal Illumination

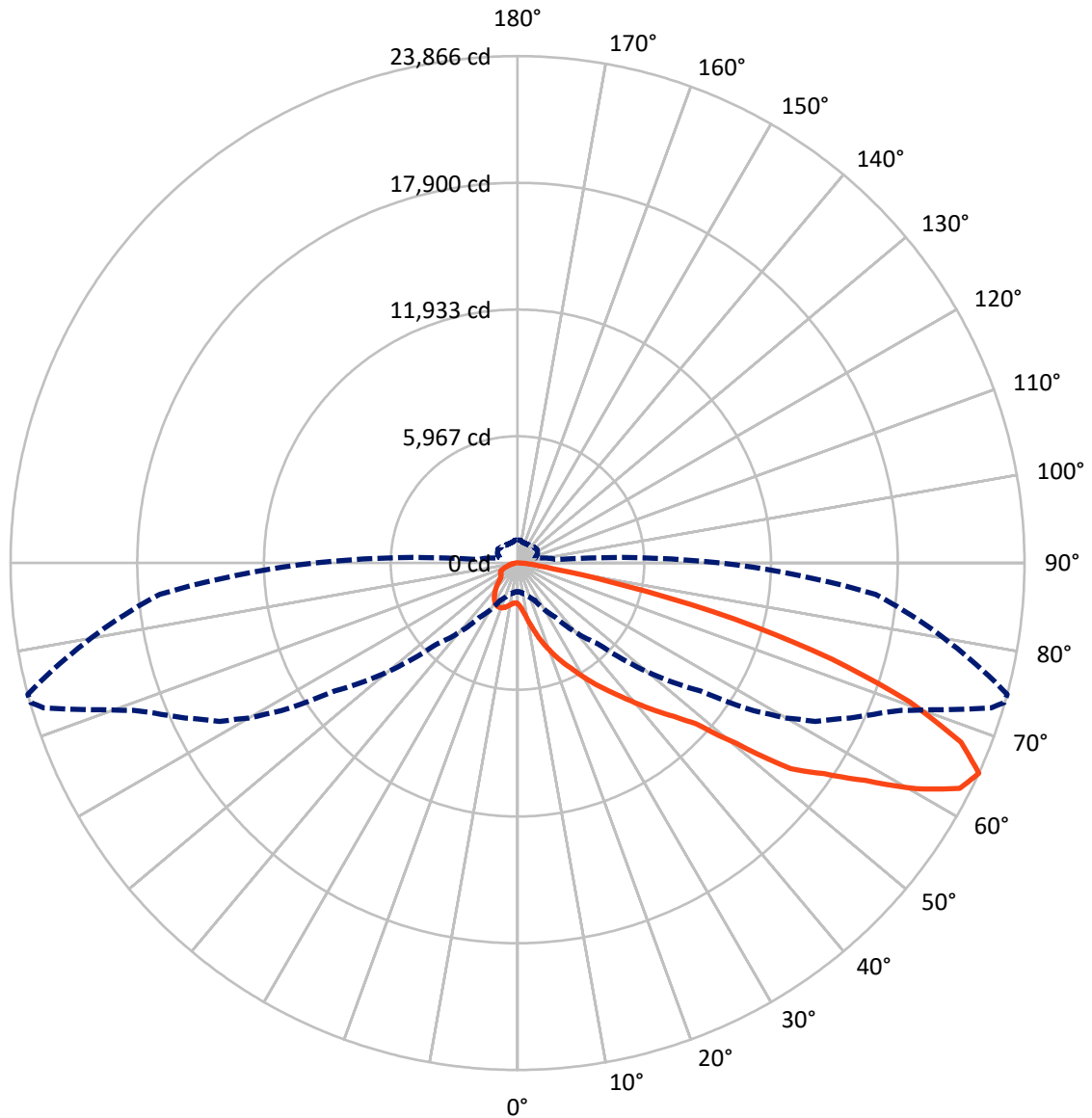
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3635.8	0.0	3635.8
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	19946.2	0.0	19946.2
	% Fixture	84.6	0.0	84.6
Total	Lumens	23582.0	0.0	23582.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.9	1.0
10°-20°	925.6	3.9
20°-30°	1898.9	8.1
30°-40°	3194.9	13.5
40°-50°	4414.4	18.7
50°-60°	5510.5	23.4
60°-70°	4958.9	21.0
70°-80°	2078.7	8.8
80°-90°	363.2	1.5
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°	23582.0	100.0
0°-180°	23582.0	100.0

Coefficient of Utilization



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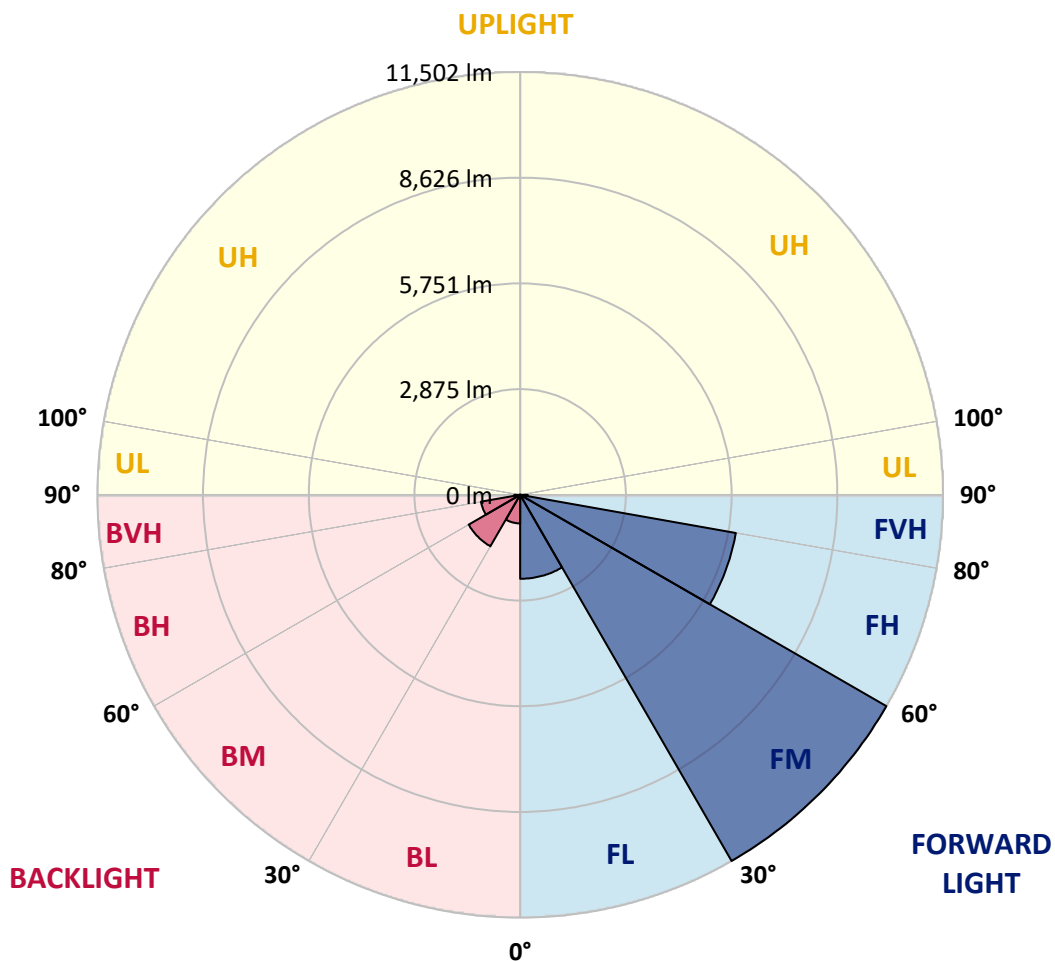
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2283.8	9.7			
FM (30°-60°)	11501.5	48.8			
FH (60°-80°)	5956.7	25.3			G3/7500
FVH (80°-90°)	204.1	0.9			G2/225
BL (0°-30°)	777.5	3.3	B2/1000		
BM (30°-60°)	1618.3	6.9	B2/2500		
BH (60°-80°)	1080.9	4.6	B3/2500		G3/2500
BVH (80°-90°)	159.0	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	1916.5	1916.5	1916.5	1916.5	1916.5	1916.5	1916.5	1916.5	1916.5	1916.5	1916.5
2.5°	2433.3	2406.5	2413.2	2368.5	2313.9	2242.4	2163.2	2162.0	2163.2	2155.4	2126.3
5°	3374.2	3341.9	3329.6	3229.1	3081.8	2871.9	2644.2	2619.7	2609.6	2584.0	2524.8
7.5°	4060.7	4042.8	4023.8	3947.9	3814.0	3579.6	3273.8	3221.3	3171.1	3158.8	3091.8
10°	4503.8	4499.3	4459.2	4439.1	4355.4	4152.2	3854.2	3804.0	3749.3	3730.3	3660.0
12.5°	4854.3	4853.2	4834.2	4839.8	4767.2	4619.9	4363.2	4317.4	4277.2	4219.2	4168.9
15°	5096.5	5097.6	5125.5	5156.8	5145.6	5046.3	4805.2	4785.1	4750.5	4710.3	4651.1
17.5°	5295.2	5300.8	5329.8	5386.7	5448.1	5440.3	5249.4	5232.7	5202.5	5147.8	5116.6
20°	5743.9	5765.1	5709.3	5709.3	5716.0	5746.1	5654.6	5641.2	5598.8	5569.8	5545.2
22.5°	6501.8	6526.3	6400.2	6271.8	6145.7	6054.2	5962.7	5979.4	5950.4	5930.3	5915.8
25°	7486.2	7505.2	7301.0	7084.4	6827.7	6492.8	6266.3	6256.2	6240.6	6228.3	6221.6
27.5°	8412.7	8420.5	8227.4	7910.4	7612.4	7131.3	6574.3	6562.0	6543.1	6519.6	6499.5
30°	9205.2	9202.9	9004.3	8701.8	8382.5	7850.1	7042.0	7004.1	6948.2	6884.6	6835.5
32.5°	9891.6	9888.3	9670.6	9357.0	9022.1	8562.3	7682.7	7604.6	7517.5	7393.6	7318.8
35°	10431.9	10429.6	10224.2	9897.2	9513.2	9233.1	8417.1	8321.2	8210.7	8044.3	7929.4
37.5°	10636.1	10636.1	10521.2	10297.9	9958.6	9766.6	9233.1	9117.0	8998.7	8810.0	8680.6
40°	10516.7	10518.9	10543.5	10502.2	10337.0	10189.6	9994.3	9925.1	9823.5	9653.9	9518.8
42.5°	10116.0	10128.3	10291.2	10491.0	10573.6	10550.2	10669.6	10638.4	10566.9	10436.3	10329.2
45°	9608.1	9646.1	9824.7	10201.9	10639.5	10861.6	11235.5	11238.9	11225.5	11155.1	11072.5
47.5°	8910.5	8964.1	9199.6	9709.7	10485.4	11164.1	11810.3	11840.5	11868.4	11822.6	11784.7
50°	7984.1	8047.7	8400.4	9076.8	10171.8	11477.7	12896.4	13032.6	13159.8	13144.2	13169.9
52.5°	6991.8	7066.6	7498.5	8252.0	9632.7	11550.3	13590.7	13812.8	14034.9	14216.8	14409.9
55°	6096.6	6056.4	6488.4	7282.0	8746.4	11223.2	14214.6	14482.5	14730.3	14953.5	15183.5
57.5°	4883.3	4949.2	5382.2	6166.9	7573.3	10300.1	14644.3	15036.1	15392.2	15761.6	16087.6
60°	3569.6	3635.4	4105.3	4902.3	6299.7	8900.5	14316.2	14910.0	15480.4	16046.3	16488.3
62.5°	2155.4	2204.5	2618.6	3377.6	4857.6	7240.7	12854.0	13633.1	14472.4	15148.9	15826.4
65°	1341.7	1369.6	1522.5	1939.9	3119.7	5405.7	10502.2	11351.6	12255.7	13114.1	13818.4
67.5°	1098.3	1108.4	1136.3	1225.6	1713.3	3524.9	7816.6	8568.9	9384.9	10215.3	10998.9
70°	987.8	981.1	981.1	986.7	1098.3	1895.3	5117.7	5607.7	6287.5	7009.6	7726.2
72.5°	891.8	885.1	872.9	856.1	896.3	1156.4	2645.4	3014.8	3504.8	4146.6	4833.1
75°	801.4	792.5	778.0	756.8	784.7	872.9	1270.2	1425.4	1664.2	2005.8	2388.6
77.5°	707.7	696.5	683.1	667.5	703.2	678.6	744.5	800.3	891.8	1001.2	1145.2
80°	601.6	591.6	587.1	579.3	621.7	516.8	525.7	560.3	613.9	673.1	740.0
82.5°	471.0	471.0	488.9	492.2	539.1	371.7	392.9	423.0	450.9	482.2	513.4
85°	310.3	312.5	372.8	396.2	425.3	250.0	294.7	304.7	327.0	344.9	358.3
87.5°	97.1	104.9	227.7	252.3	244.4	141.8	180.8	185.3	200.9	213.2	224.4
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):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	1916.5	1916.5	1916.5	1916.5	1916.5	1916.5	1916.5	1916.5	1916.5	1916.5	1916.5
2.5°	2126.3	2112.9	2100.7	2099.5	2090.6	2078.3	2082.8	2063.8	2064.9	2054.9	2043.7
5°	2500.3	2491.3	2446.7	2434.4	2400.9	2379.7	2376.4	2331.7	2326.1	2300.5	2272.6
7.5°	3038.3	3009.2	2946.7	2916.6	2859.7	2817.2	2797.2	2738.0	2709.0	2642.0	2611.9
10°	3601.9	3565.1	3488.1	3445.7	3391.0	3322.9	3286.0	3200.1	3166.6	3105.2	3031.6
12.5°	4124.3	4087.5	4008.2	3975.8	3903.3	3830.7	3790.6	3693.5	3649.9	3551.7	3493.7
15°	4607.6	4570.8	4501.6	4468.1	4395.5	4336.4	4282.8	4186.8	4135.5	4043.9	3968.0
17.5°	5076.4	5037.3	4977.1	4946.9	4876.6	4816.3	4758.3	4667.9	4615.4	4523.9	4455.8
20°	5511.7	5482.7	5439.2	5399.0	5328.7	5274.0	5204.8	5126.6	5050.7	4983.8	4919.0
22.5°	5891.2	5880.1	5833.2	5815.3	5755.0	5708.2	5647.9	5570.9	5516.2	5431.4	5371.1
25°	6218.3	6214.9	6192.6	6187.0	6144.6	6099.9	6086.6	6022.9	5972.7	5897.9	5835.4
27.5°	6499.5	6502.9	6497.3	6512.9	6501.8	6481.7	6482.8	6461.6	6432.6	6370.1	6315.4
30°	6812.1	6794.2	6804.3	6826.6	6833.3	6835.5	6872.3	6884.6	6882.4	6841.1	6814.3
32.5°	7254.1	7211.7	7172.6	7169.3	7191.6	7200.5	7263.0	7295.4	7323.3	7333.3	7337.8
35°	7817.8	7732.9	7651.4	7607.9	7570.0	7580.0	7624.7	7677.1	7738.5	7780.9	7831.1
37.5°	8527.6	8423.8	8279.9	8177.2	8151.5	8095.7	8124.7	8166.0	8226.3	8292.1	8379.2
40°	9388.2	9230.8	9069.0	8932.8	8859.2	8756.5	8755.4	8747.5	8784.4	8845.8	8968.5
42.5°	10216.4	10076.9	9905.0	9762.1	9666.2	9528.9	9501.0	9428.4	9445.2	9498.7	9618.2
45°	10992.2	10877.2	10772.3	10607.1	10525.6	10377.2	10330.3	10244.3	10196.3	10220.9	10340.3
47.5°	11743.4	11669.7	11560.3	11453.2	11390.7	11257.8	11197.6	11136.2	11074.8	11072.5	11197.6
50°	13207.8	13168.7	13039.3	12927.6	12957.8	12794.8	12804.9	12639.7	12714.5	12723.4	12985.7
52.5°	14584.1	14720.2	14816.2	14933.4	15009.3	15023.8	15074.1	15148.9	15239.3	15417.9	15661.2
55°	15372.1	15542.9	15642.2	15731.5	15878.8	15910.1	15993.8	16093.1	16172.4	16373.3	16579.8
57.5°	16308.6	16625.6	16779.6	16921.4	17120.0	17195.9	17335.5	17443.7	17546.4	17784.2	18034.2
60°	16885.6	17271.8	17585.5	17809.8	18058.7	18237.3	18448.3	18618.0	18859.1	19143.7	19516.5
62.5°	16426.9	16993.9	17410.2	17795.3	18133.5	18475.1	18777.6	19094.6	19460.7	19891.5	20469.7
65°	14599.7	15176.8	15890.0	16289.6	16737.2	17264.0	17723.9	18237.3	18736.3	19363.6	20218.6
67.5°	11753.4	12424.2	13225.7	13628.6	14143.2	14731.4	15247.1	15874.4	16457.0	17217.1	18274.2
70°	8471.8	9339.1	10013.3	10434.1	11034.6	11640.7	12138.5	12868.5	13350.7	14129.8	15222.5
72.5°	5364.4	6048.6	6874.6	7404.8	7938.3	8552.2	9061.2	9690.7	10140.5	10850.4	11840.5
75°	2884.2	3388.7	4114.3	4617.7	5189.1	5713.7	6309.8	6731.7	7064.3	7625.8	8429.4
77.5°	1351.7	1658.6	2025.9	2413.2	2800.5	3204.6	3597.5	3939.0	4081.9	4403.3	4877.7
80°	820.4	919.7	1026.9	1146.3	1308.2	1438.8	1611.8	1736.8	1745.7	1847.3	1992.4
82.5°	548.0	584.9	617.2	647.4	688.7	721.1	757.9	801.4	819.3	842.7	889.6
85°	373.9	391.8	398.5	417.5	413.0	424.2	438.7	453.2	461.0	459.9	481.1
87.5°	229.9	238.9	243.3	247.8	244.4	240.0	246.7	254.5	256.7	250.0	252.3
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):

	71°	72°	73°	74°	75°	85°	90°	95°	105°	115°	125°
0°	1916.5	1916.5	1916.5	1916.5	1916.5	1916.5	1916.5	1916.5	1916.5	1916.5	1916.5
2.5°	2046.0	2035.9	2025.9	2019.2	2016.9	1957.8	1932.1	1915.4	1879.7	1850.6	1827.2
5°	2256.9	2235.7	2219.0	2198.9	2187.7	2038.2	1983.5	1945.5	1883.0	1846.2	1812.7
7.5°	2596.2	2537.1	2502.5	2463.4	2429.9	2159.8	2069.4	2010.2	1923.2	1874.1	1836.1
10°	2981.3	2919.9	2865.2	2805.0	2752.5	2321.7	2190.0	2098.4	1983.5	1919.8	1869.6
12.5°	3411.1	3350.8	3281.6	3204.6	3137.6	2527.0	2344.0	2213.4	2056.0	1971.2	1900.9
15°	3918.9	3812.9	3729.2	3639.9	3561.7	2772.6	2523.7	2342.9	2133.0	2018.1	1924.3
17.5°	4391.1	4279.5	4165.6	4087.5	3997.1	3048.3	2704.5	2474.6	2196.7	2048.2	1928.8
20°	4852.1	4730.4	4632.2	4527.2	4432.4	3334.0	2897.6	2590.7	2237.9	2049.3	1900.9
22.5°	5258.3	5182.4	5073.1	4959.2	4863.2	3619.8	3078.4	2688.9	2253.6	2023.6	1851.7
25°	5720.4	5640.1	5506.1	5410.1	5303.0	3911.1	3255.9	2764.8	2244.6	1975.6	1775.8
27.5°	6213.8	6124.5	5987.2	5886.8	5757.3	4213.6	3418.9	2819.5	2211.2	1897.5	1674.3
30°	6728.4	6646.9	6511.8	6410.2	6279.7	4533.9	3600.8	2856.3	2144.2	1789.2	1556.0
32.5°	7280.9	7212.8	7078.8	6972.8	6833.3	4881.1	3770.5	2867.5	2042.6	1660.9	1430.9
35°	7805.5	7758.6	7645.9	7546.5	7401.4	5209.2	3950.2	2861.9	1922.1	1520.2	1317.1
37.5°	8395.9	8368.0	8312.2	8186.1	8008.6	5654.6	4165.6	2838.5	1774.7	1380.7	1230.0
40°	9025.5	9027.7	8967.4	8881.5	8716.3	6194.8	4422.3	2792.7	1614.0	1257.9	1150.8
42.5°	9691.8	9726.4	9697.4	9636.0	9477.5	6739.5	4729.3	2736.9	1457.7	1138.5	1072.7
45°	10455.3	10497.7	10542.4	10452.0	10297.9	7458.3	5133.3	2664.3	1289.2	1039.2	1019.1
47.5°	11336.0	11402.9	11443.1	11444.2	11290.2	8349.1	5789.6	2620.8	1139.6	972.2	993.4
50°	13194.4	13215.6	13310.5	13475.7	13357.4	10410.7	6936.0	2594.0	1038.1	930.9	974.4
52.5°	15872.1	16105.4	16269.5	16258.3	16097.6	11719.9	7567.7	2455.6	977.8	915.3	965.5
55°	16962.7	17254.0	17557.6	17637.9	17512.9	12837.2	8164.9	2317.2	948.8	926.4	968.8
57.5°	18415.9	18907.0	19323.4	19498.6	19317.8	14267.1	8950.7	2244.6	939.8	956.6	990.1
60°	20113.6	20720.8	21267.8	21582.5	21582.5	15910.1	9765.5	2214.5	927.5	1001.2	1025.8
62.5°	21204.2	22096.0	22922.0	23382.9	23369.6	17054.2	10127.1	2111.8	899.6	1032.5	1074.9
65°	21208.6	22269.0	23321.6	23839.5	23866.3	16913.5	9530.0	1865.1	848.3	1036.9	1124.0
67.5°	19440.6	20571.3	21798.0	22377.3	22511.2	15569.7	8249.7	1533.6	764.6	992.3	1141.9
70°	16419.1	17523.0	18775.3	19344.6	19582.3	13272.5	6644.6	1182.0	657.4	894.1	1105.0
72.5°	12935.5	14018.2	14889.9	15306.2	15491.5	10145.0	4838.7	892.9	539.1	753.4	1005.7
75°	9158.3	9970.9	10434.1	10526.7	10555.8	6115.6	2940.0	664.1	444.2	586.0	849.4
77.5°	5169.0	5517.3	5479.3	5520.6	5176.9	2360.7	1280.3	475.5	366.1	445.4	658.5
80°	2018.1	2080.6	1954.4	1915.4	1756.9	878.4	564.8	331.5	292.4	337.1	461.0
82.5°	889.6	918.6	891.8	898.5	859.5	453.2	338.2	240.0	223.2	246.7	305.8
85°	490.0	498.9	496.7	511.2	490.0	180.8	160.7	147.3	156.3	167.4	196.4
87.5°	238.9	241.1	233.3	245.6	237.7	91.5	79.2	83.7	91.5	93.8	93.8
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):

	135°	145°	155°	165°	175°	180°
0°	1916.5	1916.5	1916.5	1916.5	1916.5	1916.5
2.5°	1810.5	1801.5	1802.6	1800.4	1795.9	1795.9
5°	1794.8	1785.9	1785.9	1783.7	1778.1	1779.2
7.5°	1810.5	1795.9	1790.4	1782.5	1774.7	1774.7
10°	1828.3	1802.6	1787.0	1773.6	1763.6	1763.6
12.5°	1841.7	1801.5	1775.8	1758.0	1747.9	1747.9
15°	1846.2	1793.7	1758.0	1736.8	1727.9	1726.7
17.5°	1831.7	1763.6	1720.0	1695.5	1684.3	1681.0
20°	1787.0	1708.9	1656.4	1628.5	1612.9	1607.3
22.5°	1720.0	1630.7	1569.4	1540.3	1520.2	1516.9
25°	1626.3	1530.3	1470.0	1442.1	1430.9	1427.6
27.5°	1516.9	1427.6	1376.3	1358.4	1348.4	1347.2
30°	1413.1	1337.2	1299.2	1285.8	1273.6	1271.3
32.5°	1316.0	1268.0	1253.5	1234.5	1205.5	1202.1
35°	1246.8	1242.3	1232.3	1189.9	1154.1	1144.1
37.5°	1204.4	1245.7	1194.3	1110.6	1084.9	1082.7
40°	1179.8	1211.1	1122.9	1093.9	1096.1	1093.9
42.5°	1124.0	1156.4	1125.1	1111.7	1120.6	1122.9
45°	1068.2	1103.9	1141.9	1132.9	1154.1	1154.1
47.5°	1036.9	1090.5	1140.7	1140.7	1172.0	1183.2
50°	1001.2	1079.4	1122.9	1138.5	1163.1	1154.1
52.5°	999.0	1060.4	1097.2	1125.1	1136.3	1126.2
55°	1002.3	1044.7	1071.5	1102.8	1116.2	1117.3
57.5°	1006.8	1035.8	1053.7	1068.2	1108.4	1108.4
60°	1018.0	1028.0	1038.1	1045.9	1098.3	1099.4
62.5°	1035.8	1020.2	1018.0	1025.8	1092.7	1088.3
65°	1063.7	1009.0	992.3	1000.1	1087.2	1073.8
67.5°	1101.7	992.3	959.9	965.5	1082.7	1053.7
70°	1136.3	965.5	919.7	914.2	1040.3	988.9
72.5°	1139.6	934.2	863.9	847.2	904.1	855.0
75°	1083.8	913.0	802.5	753.4	746.7	740.0
77.5°	976.7	900.8	731.1	654.1	640.7	645.2
80°	817.0	855.0	645.2	553.6	626.2	618.4
82.5°	610.6	754.5	548.0	490.0	488.9	432.0
85°	339.3	588.2	446.5	367.2	255.6	247.8
87.5°	94.9	327.0	312.5	207.6	141.8	147.3
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)