

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: P193962

Luminaire Tested: **GLEON-AF-04-LED-E1-T2R-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193962
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-04-LED-E1-T2R-8030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22393 lumens
Efficiency: N/A
Efficacy: 86.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 258
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

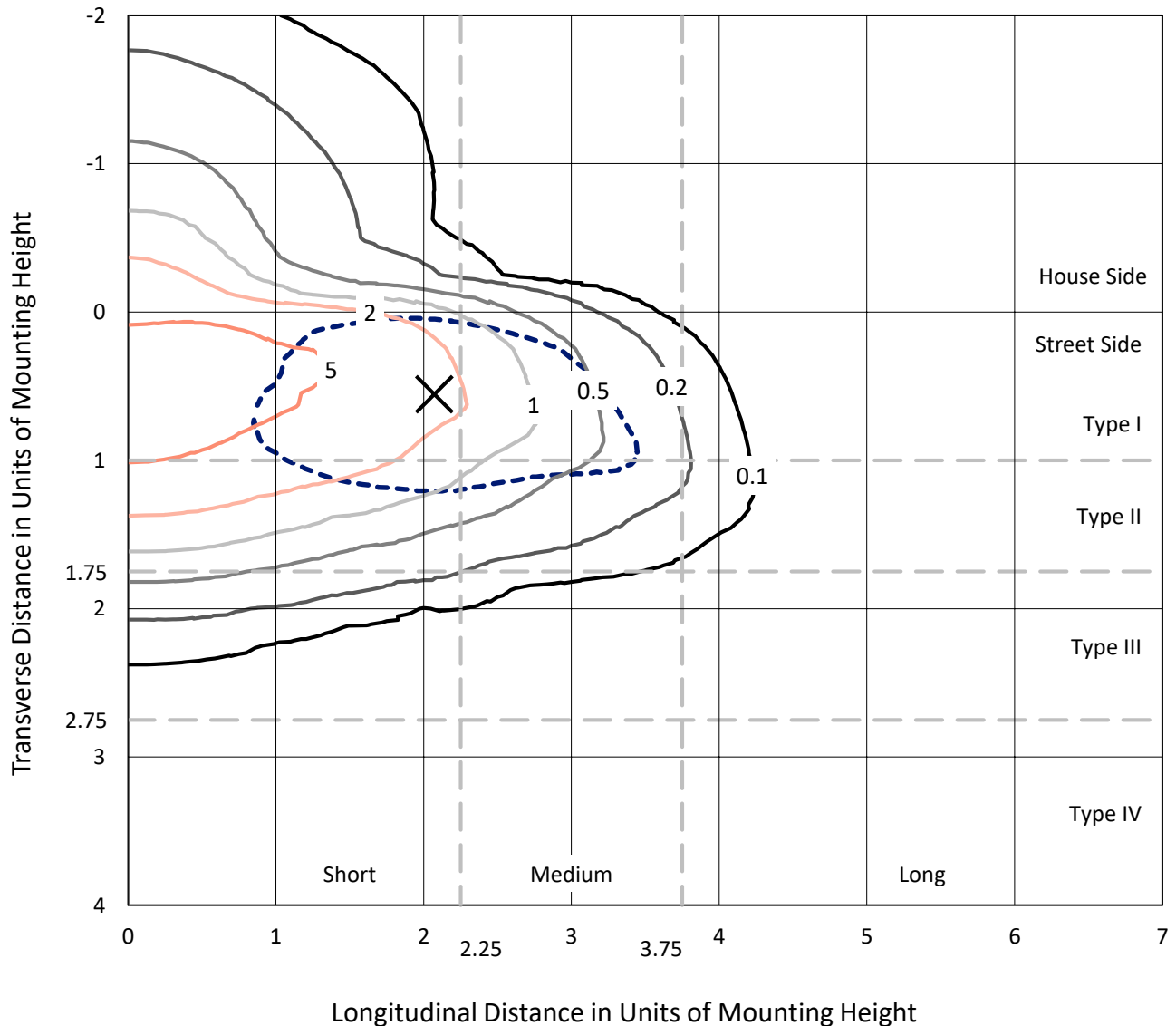


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Iso-Footcandle Lines of Horizontal Illumination

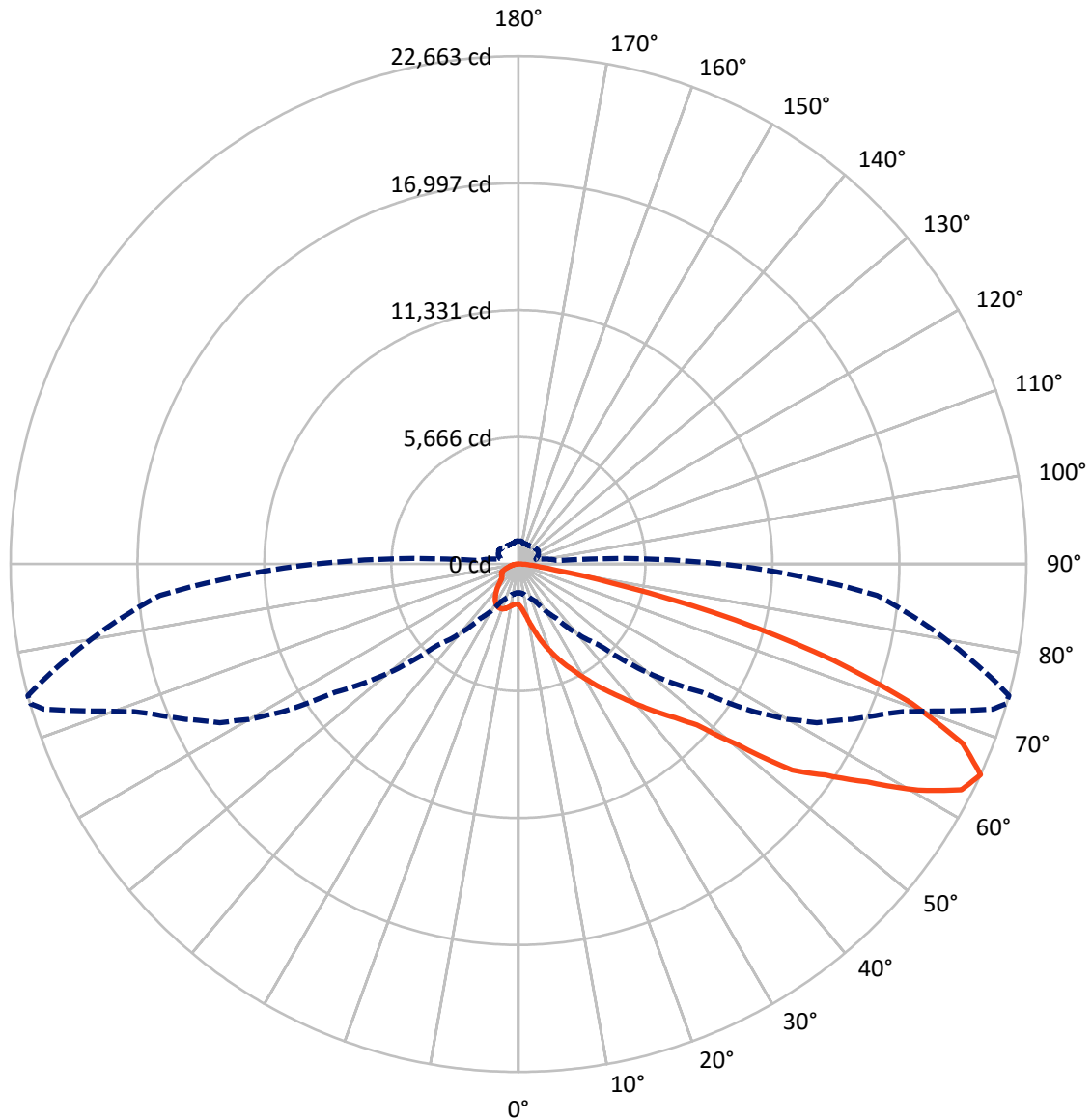
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 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	3452.5	0.0	3452.5
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	18940.5	0.0	18940.5
	% Fixture	84.6	0.0	84.6
Total	Lumens	22393.0	0.0	22393.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.9	1.0
10°-20°	878.9	3.9
20°-30°	1803.2	8.1
30°-40°	3033.8	13.5
40°-50°	4191.9	18.7
50°-60°	5232.7	23.4
60°-70°	4708.9	21.0
70°-80°	1973.9	8.8
80°-90°	344.8	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°	22393.0	100.0
0°-180°	22393.0	100.0



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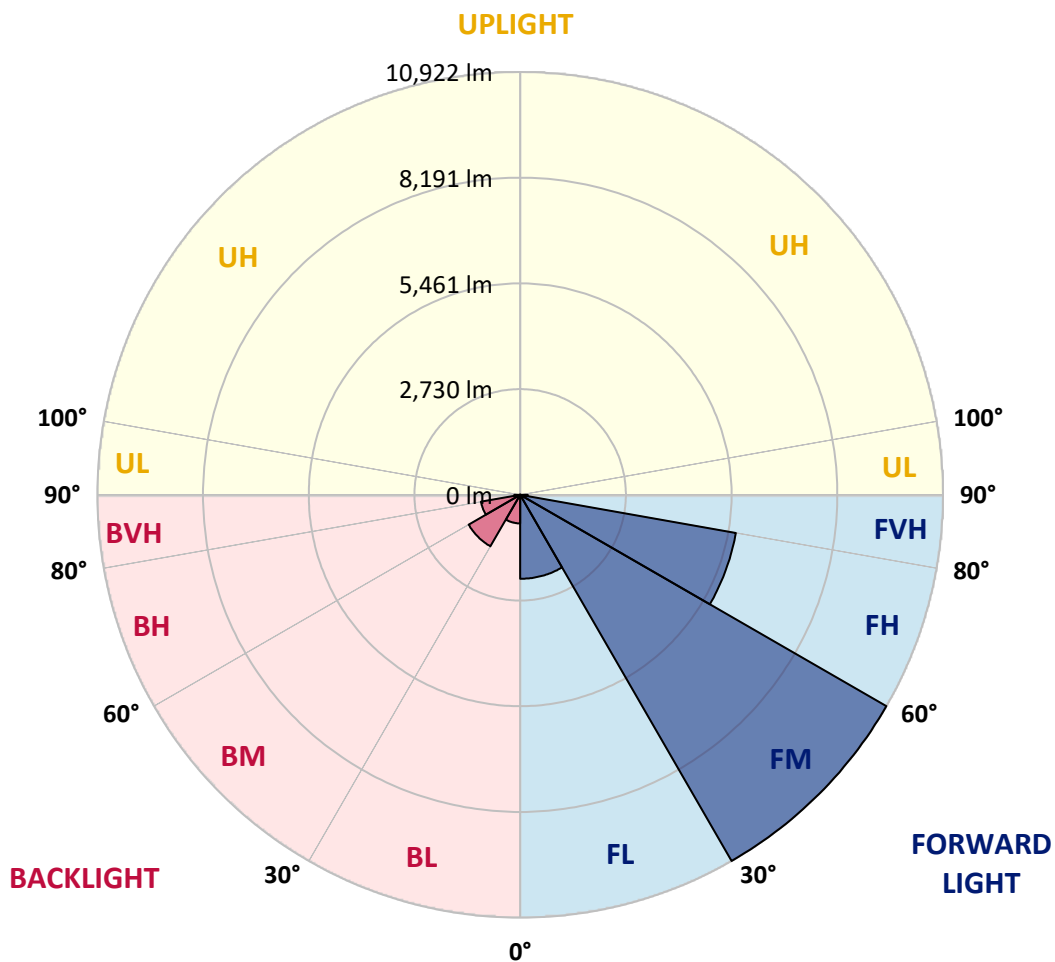
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2168.7	9.7			
FM (30°-60°)	10921.6	48.8			
FH (60°-80°)	5656.4	25.3			G3/7500
FVH (80°-90°)	193.8	0.9			G2/225
BL (0°-30°)	738.3	3.3	B2/1000		
BM (30°-60°)	1536.7	6.9	B2/2500		
BH (60°-80°)	1026.4	4.6	B3/2500		G3/2500
BVH (80°-90°)	151.0	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°	1819.9	1819.9	1819.9	1819.9	1819.9	1819.9	1819.9	1819.9	1819.9	1819.9	1819.9
2.5°	2310.6	2285.2	2291.5	2249.1	2197.2	2129.4	2054.1	2053.0	2054.1	2046.7	2019.1
5°	3204.1	3173.4	3161.7	3066.3	2926.4	2727.1	2510.9	2487.6	2478.1	2453.7	2397.5
7.5°	3855.9	3839.0	3821.0	3748.9	3621.7	3399.1	3108.7	3058.9	3011.2	2999.5	2935.9
10°	4276.7	4272.5	4234.3	4215.2	4135.8	3942.9	3659.9	3612.2	3560.2	3542.2	3475.4
12.5°	4609.5	4608.5	4590.5	4595.8	4526.9	4387.0	4143.2	4099.7	4061.6	4006.4	3958.8
15°	4839.5	4840.6	4867.1	4896.8	4886.2	4791.8	4562.9	4543.8	4511.0	4472.8	4416.6
17.5°	5028.2	5033.5	5061.1	5115.1	5173.4	5166.0	4984.7	4968.8	4940.2	4888.3	4858.6
20°	5454.3	5474.4	5421.4	5421.4	5427.8	5456.4	5369.5	5356.8	5316.5	5288.9	5265.6
22.5°	6174.0	6197.3	6077.5	5955.6	5835.8	5748.9	5662.0	5677.9	5650.4	5631.3	5617.5
25°	7108.8	7126.8	6932.8	6727.2	6483.4	6165.5	5950.3	5940.8	5925.9	5914.3	5907.9
27.5°	7988.5	7995.9	7812.6	7511.6	7228.6	6771.7	6242.8	6231.2	6213.2	6190.9	6171.8
30°	8741.0	8738.9	8550.3	8263.0	7959.9	7454.3	6687.0	6650.9	6597.9	6537.5	6490.9
32.5°	9392.9	9389.7	9183.0	8885.2	8567.2	8130.5	7295.3	7221.1	7138.5	7020.8	6949.8
35°	9905.9	9903.8	9708.7	9398.2	9033.6	8767.5	7992.8	7901.6	7796.7	7638.7	7529.6
37.5°	10099.8	10099.8	9990.7	9778.7	9456.5	9274.2	8767.5	8657.3	8545.0	8365.8	8242.9
40°	9986.4	9988.6	10011.9	9972.7	9815.8	9675.9	9490.4	9424.7	9328.2	9167.1	9038.9
42.5°	9605.9	9617.6	9772.3	9962.1	10040.5	10018.2	10131.6	10102.0	10034.1	9910.1	9808.4
45°	9123.7	9159.7	9329.3	9687.5	10103.0	10314.0	10669.0	10672.2	10659.5	10592.7	10514.3
47.5°	8461.2	8512.1	8735.8	9220.1	9956.8	10601.2	11214.9	11243.5	11270.0	11226.5	11190.5
50°	7581.5	7641.9	7976.9	8619.2	9658.9	10899.0	12246.2	12375.5	12496.3	12481.5	12505.8
52.5°	6639.3	6710.3	7120.5	7835.9	9147.0	10967.9	12905.4	13116.3	13327.3	13500.0	13683.4
55°	5789.2	5751.1	6161.2	6914.8	8305.4	10657.4	13497.9	13752.3	13987.6	14199.6	14417.9
57.5°	4637.1	4699.6	5110.9	5856.0	7191.5	9780.8	13906.0	14278.0	14616.1	14966.9	15276.4
60°	3389.6	3452.1	3898.3	4655.1	5982.1	8451.7	13594.4	14158.2	14699.8	15237.2	15656.9
62.5°	2046.7	2093.3	2486.5	3207.3	4612.7	6875.6	12205.9	12945.7	13742.7	14385.1	15028.4
65°	1274.0	1300.5	1445.7	1842.1	2962.4	5133.1	9972.7	10779.2	11637.8	12452.8	13121.6
67.5°	1042.9	1052.5	1079.0	1163.8	1627.0	3347.2	7422.5	8136.9	8911.7	9700.3	10444.3
70°	938.0	931.7	931.7	937.0	1042.9	1799.7	4859.7	5325.0	5970.5	6656.2	7336.7
72.5°	846.9	840.5	828.8	812.9	851.1	1098.1	2512.0	2862.8	3328.1	3937.6	4589.4
75°	761.0	752.5	738.8	718.6	745.1	828.8	1206.2	1353.5	1580.3	1904.7	2268.2
77.5°	672.0	661.4	648.7	633.8	667.7	644.4	707.0	760.0	846.9	950.7	1087.5
80°	571.3	561.8	557.5	550.1	590.4	490.7	499.2	532.1	582.9	639.1	702.7
82.5°	447.3	447.3	464.2	467.4	511.9	352.9	373.1	401.7	428.2	457.9	487.6
85°	294.7	296.8	354.0	376.3	403.8	237.4	279.8	289.4	310.6	327.5	340.2
87.5°	92.2	99.6	216.2	239.5	232.1	134.6	171.7	175.9	190.8	202.4	213.0
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):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	1819.9	1819.9	1819.9	1819.9	1819.9	1819.9	1819.9	1819.9	1819.9	1819.9	1819.9
2.5°	2019.1	2006.4	1994.7	1993.7	1985.2	1973.5	1977.8	1959.8	1960.8	1951.3	1940.7
5°	2374.2	2365.7	2323.3	2311.7	2279.9	2259.7	2256.5	2214.1	2208.8	2184.5	2158.0
7.5°	2885.1	2857.5	2798.2	2769.5	2715.5	2675.2	2656.1	2600.0	2572.4	2508.8	2480.2
10°	3420.3	3385.3	3312.2	3271.9	3220.0	3155.3	3120.4	3038.8	3007.0	2948.7	2878.7
12.5°	3916.4	3881.4	3806.1	3775.4	3706.5	3637.6	3599.4	3507.2	3465.9	3372.6	3317.5
15°	4375.3	4340.3	4274.6	4242.8	4173.9	4117.7	4066.9	3975.7	3927.0	3840.0	3768.0
17.5°	4820.5	4783.4	4726.1	4697.5	4630.7	4573.5	4518.4	4432.5	4382.7	4295.8	4231.1
20°	5233.8	5206.3	5164.9	5126.8	5060.0	5008.1	4942.3	4868.2	4796.1	4732.5	4671.0
22.5°	5594.2	5583.6	5539.1	5522.1	5464.9	5420.4	5363.1	5290.0	5238.1	5157.5	5100.3
25°	5904.7	5901.6	5880.4	5875.1	5834.8	5792.4	5779.7	5719.3	5671.6	5600.5	5541.2
27.5°	6171.8	6175.0	6169.7	6184.6	6174.0	6154.9	6155.9	6135.8	6108.2	6048.9	5997.0
30°	6468.6	6451.7	6461.2	6482.4	6488.7	6490.9	6525.8	6537.5	6535.4	6496.2	6470.7
32.5°	6888.3	6848.1	6811.0	6807.8	6829.0	6837.5	6896.8	6927.5	6954.0	6963.6	6967.8
35°	7423.6	7343.0	7265.7	7224.3	7188.3	7197.8	7240.2	7290.0	7348.3	7388.6	7436.3
37.5°	8097.7	7999.1	7862.4	7764.9	7740.5	7687.5	7715.1	7754.3	7811.5	7874.0	7956.7
40°	8914.9	8765.4	8611.7	8482.4	8412.5	8315.0	8313.9	8306.5	8341.5	8399.8	8516.3
42.5°	9701.3	9568.8	9405.6	9269.9	9178.8	9048.4	9021.9	8953.0	8968.9	9019.8	9133.2
45°	10438.0	10328.8	10229.2	10072.3	9994.9	9854.0	9809.4	9727.8	9682.2	9705.6	9819.0
47.5°	11151.3	11081.3	10977.5	10875.7	10816.3	10690.2	10633.0	10574.7	10516.4	10514.3	10633.0
50°	12541.9	12504.8	12381.8	12275.8	12304.5	12149.7	12159.2	12002.4	12073.4	12081.9	12331.0
52.5°	13848.7	13978.0	14069.2	14180.5	14252.6	14266.3	14314.0	14385.1	14470.9	14640.5	14871.5
55°	14597.0	14759.2	14853.5	14938.3	15078.2	15107.9	15187.4	15281.7	15357.0	15547.8	15743.9
57.5°	15486.3	15787.3	15933.6	16068.2	16256.8	16328.9	16461.4	16564.2	16661.7	16887.5	17124.9
60°	16034.3	16401.0	16698.8	16911.9	17148.2	17317.8	17518.1	17679.2	17908.2	18178.5	18532.5
62.5°	15598.6	16137.1	16532.4	16898.1	17219.2	17543.6	17830.8	18131.8	18479.5	18888.6	19437.6
65°	13863.6	14411.5	15088.8	15468.3	15893.3	16393.6	16830.3	17317.8	17791.6	18387.3	19199.1
67.5°	11160.8	11797.8	12558.8	12941.5	13430.1	13988.6	14478.3	15074.0	15627.3	16349.1	17352.8
70°	8044.7	8868.2	9508.4	9908.0	10478.2	11053.8	11526.5	12219.7	12677.5	13417.4	14455.0
72.5°	5093.9	5743.6	6528.0	7031.4	7538.1	8121.0	8604.3	9202.1	9629.3	10303.4	11243.5
75°	2738.8	3217.9	3906.8	4384.8	4927.5	5425.7	5991.7	6392.3	6708.1	7241.3	8004.4
77.5°	1283.5	1575.0	1923.7	2291.5	2659.3	3043.0	3416.1	3740.4	3876.1	4181.3	4631.8
80°	779.0	873.4	975.1	1088.5	1242.2	1366.2	1530.5	1649.2	1657.7	1754.1	1891.9
82.5°	520.4	555.4	586.1	614.7	654.0	684.7	719.7	761.0	778.0	800.2	844.7
85°	355.1	372.0	378.4	396.4	392.2	402.8	416.5	430.3	437.7	436.7	456.8
87.5°	218.3	226.8	231.1	235.3	232.1	227.9	234.2	241.7	243.8	237.4	239.5
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°	1819.9	1819.9	1819.9	1819.9	1819.9	1819.9	1819.9	1819.9	1819.9	1819.9	1819.9
2.5°	1942.8	1933.3	1923.7	1917.4	1915.3	1859.1	1834.7	1818.8	1784.9	1757.3	1735.1
5°	2143.1	2123.0	2107.1	2088.0	2077.4	1935.4	1883.5	1847.4	1788.1	1753.1	1721.3
7.5°	2465.3	2409.2	2376.3	2339.2	2307.4	2050.9	1965.1	1908.9	1826.2	1779.6	1743.5
10°	2831.0	2772.7	2720.8	2663.5	2613.7	2204.6	2079.5	1992.6	1883.5	1823.0	1775.3
12.5°	3239.1	3181.8	3116.1	3043.0	2979.4	2399.6	2225.8	2101.8	1952.3	1871.8	1805.0
15°	3721.3	3620.6	3541.1	3456.4	3382.2	2632.8	2396.4	2224.7	2025.5	1916.3	1827.3
17.5°	4169.7	4063.7	3955.6	3881.4	3795.5	2894.6	2568.2	2349.8	2085.9	1944.9	1831.5
20°	4607.4	4491.9	4398.6	4299.0	4208.9	3165.9	2751.5	2460.0	2125.1	1946.0	1805.0
22.5°	4993.2	4921.1	4817.3	4709.2	4618.0	3437.3	2923.2	2553.3	2140.0	1921.6	1758.4
25°	5432.0	5355.7	5228.5	5137.4	5035.6	3713.9	3091.7	2625.4	2131.5	1876.0	1686.3
27.5°	5900.5	5815.7	5685.3	5589.9	5467.0	4001.1	3246.5	2677.3	2099.7	1801.8	1589.9
30°	6389.1	6311.7	6183.5	6087.0	5963.0	4305.3	3419.3	2712.3	2036.1	1699.0	1477.5
32.5°	6913.8	6849.1	6721.9	6621.2	6488.7	4635.0	3580.4	2722.9	1939.6	1577.1	1358.8
35°	7411.9	7367.4	7260.4	7166.0	7028.2	4946.6	3751.0	2717.6	1825.2	1443.6	1250.7
37.5°	7972.6	7946.1	7893.1	7773.4	7604.8	5369.5	3955.6	2695.3	1685.3	1311.1	1168.0
40°	8570.4	8572.5	8515.3	8433.7	8276.8	5882.5	4199.3	2651.9	1532.6	1194.5	1092.8
42.5°	9203.2	9236.0	9208.5	9150.2	8999.7	6399.7	4490.8	2598.9	1384.2	1081.1	1018.6
45°	9928.1	9968.4	10010.8	9925.0	9778.7	7082.3	4874.5	2530.0	1224.2	986.8	967.7
47.5°	10764.4	10828.0	10866.2	10867.2	10721.0	7928.1	5497.7	2488.7	1082.2	923.2	943.3
50°	12529.2	12549.3	12639.4	12796.3	12683.9	9885.7	6586.3	2463.2	985.7	884.0	925.3
52.5°	15071.9	15293.4	15449.2	15438.6	15286.0	11129.0	7186.2	2331.8	928.5	869.1	916.8
55°	16107.4	16384.0	16672.3	16748.6	16629.9	12190.0	7753.2	2200.4	900.9	879.7	920.0
57.5°	17487.4	17953.8	18349.1	18515.5	18343.8	13547.7	8499.4	2131.5	892.4	908.3	940.1
60°	19099.5	19676.1	20195.5	20494.4	20494.4	15107.9	9273.1	2102.9	880.8	950.7	974.1
62.5°	20135.0	20981.9	21766.2	22204.0	22191.3	16194.3	9616.5	2005.3	854.3	980.4	1020.7
65°	20139.3	21146.2	22145.7	22637.5	22662.9	16060.8	9049.5	1771.1	805.5	984.7	1067.3
67.5°	18460.4	19534.1	20698.9	21249.0	21376.2	14784.6	7833.8	1456.3	726.0	942.3	1084.3
70°	15591.2	16639.5	17828.7	18369.2	18595.0	12603.3	6309.6	1122.4	624.3	849.0	1049.3
72.5°	12283.3	13311.4	14139.2	14534.5	14710.4	9633.5	4594.7	847.9	511.9	715.4	955.0
75°	8696.5	9468.1	9908.0	9996.0	10023.5	5807.2	2791.8	630.6	421.8	556.5	806.6
77.5°	4908.4	5239.1	5203.1	5242.3	4915.8	2241.7	1215.7	451.5	347.6	422.9	625.3
80°	1916.3	1975.7	1855.9	1818.8	1668.3	834.1	536.3	314.8	277.7	320.1	437.7
82.5°	844.7	872.3	846.9	853.2	816.1	430.3	321.2	227.9	212.0	234.2	290.4
85°	465.3	473.8	471.7	485.4	465.3	171.7	152.6	139.9	148.4	159.0	186.5
87.5°	226.8	228.9	221.5	233.2	225.8	86.9	75.3	79.5	86.9	89.0	89.0
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):

	135°	145°	155°	165°	175°	180°
0°	1819.9	1819.9	1819.9	1819.9	1819.9	1819.9
2.5°	1719.2	1710.7	1711.7	1709.6	1705.4	1705.4
5°	1704.3	1695.9	1695.9	1693.7	1688.4	1689.5
7.5°	1719.2	1705.4	1700.1	1692.7	1685.3	1685.3
10°	1736.1	1711.7	1696.9	1684.2	1674.7	1674.7
12.5°	1748.8	1710.7	1686.3	1669.4	1659.8	1659.8
15°	1753.1	1703.3	1669.4	1649.2	1640.7	1639.7
17.5°	1739.3	1674.7	1633.3	1610.0	1599.4	1596.2
20°	1696.9	1622.7	1572.9	1546.4	1531.6	1526.3
22.5°	1633.3	1548.5	1490.2	1462.7	1443.6	1440.4
25°	1544.3	1453.1	1395.9	1369.4	1358.8	1355.6
27.5°	1440.4	1355.6	1306.9	1289.9	1280.4	1279.3
30°	1341.8	1269.8	1233.7	1221.0	1209.4	1207.2
32.5°	1249.6	1204.1	1190.3	1172.3	1144.7	1141.5
35°	1183.9	1179.7	1170.1	1129.9	1095.9	1086.4
37.5°	1143.6	1182.9	1134.1	1054.6	1030.2	1028.1
40°	1120.3	1150.0	1066.3	1038.7	1040.8	1038.7
42.5°	1067.3	1098.1	1068.4	1055.7	1064.1	1066.3
45°	1014.3	1048.2	1084.3	1075.8	1095.9	1095.9
47.5°	984.7	1035.5	1083.2	1083.2	1112.9	1123.5
50°	950.7	1024.9	1066.3	1081.1	1104.4	1095.9
52.5°	948.6	1006.9	1041.9	1068.4	1079.0	1069.4
55°	951.8	992.1	1017.5	1047.2	1059.9	1061.0
57.5°	956.0	983.6	1000.6	1014.3	1052.5	1052.5
60°	966.6	976.2	985.7	993.1	1042.9	1044.0
62.5°	983.6	968.8	966.6	974.1	1037.6	1033.4
65°	1010.1	958.2	942.3	949.7	1032.3	1019.6
67.5°	1046.1	942.3	911.5	916.8	1028.1	1000.6
70°	1079.0	916.8	873.4	868.1	987.8	939.1
72.5°	1082.2	887.1	820.4	804.5	858.5	811.9
75°	1029.2	867.0	762.1	715.4	709.1	702.7
77.5°	927.4	855.3	694.2	621.1	608.4	612.6
80°	775.9	811.9	612.6	525.7	594.6	587.2
82.5°	579.8	716.5	520.4	465.3	464.2	410.2
85°	322.2	558.6	424.0	348.7	242.7	235.3
87.5°	90.1	310.6	296.8	197.1	134.6	139.9
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)