

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: P193934

Luminaire Tested: **GLEON-AF-06-LED-E1-T2R-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193934
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-06-LED-E1-T2R-8030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 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: 19941 lumens
Efficiency: N/A
Efficacy: 103.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 193
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

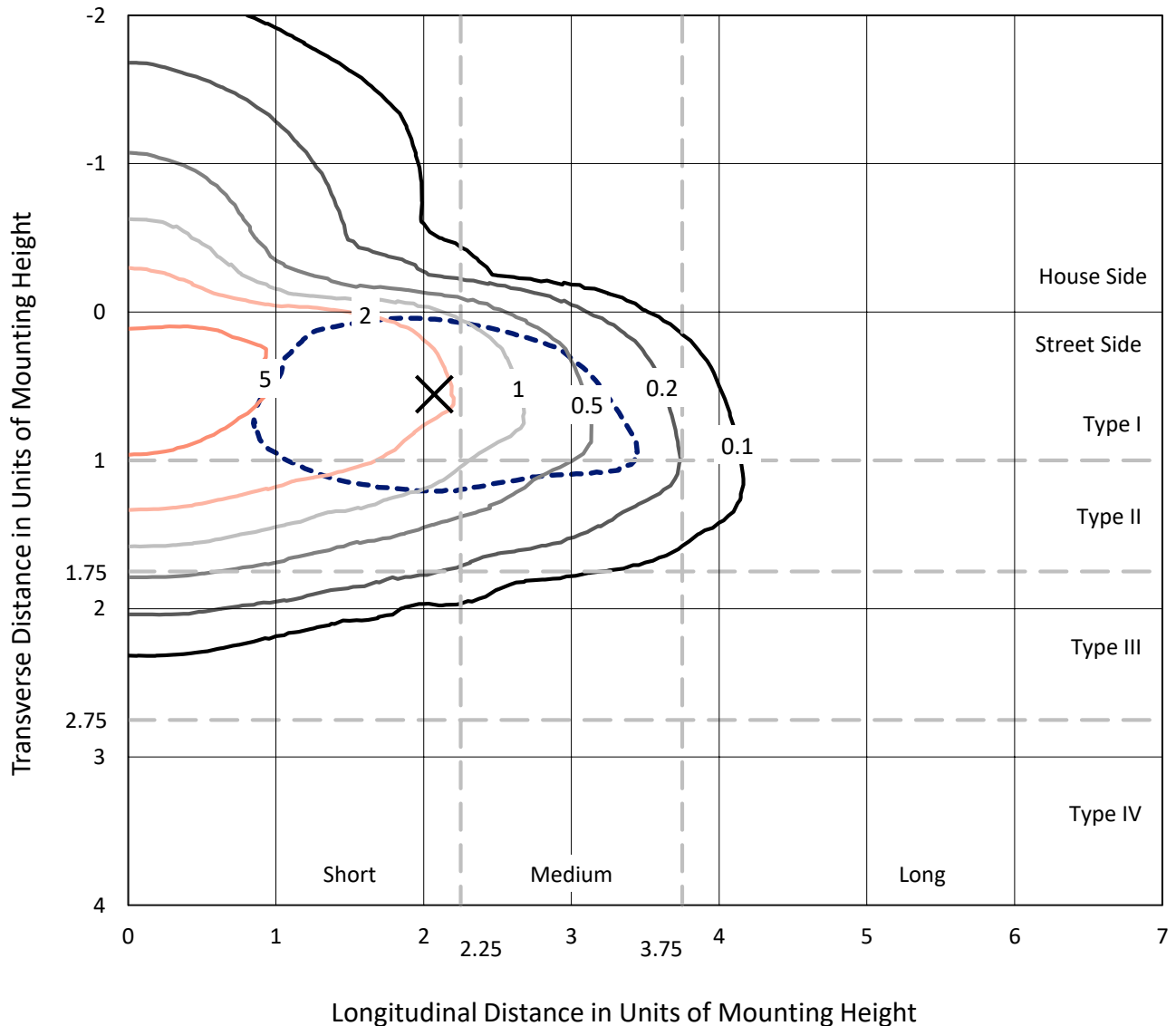


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

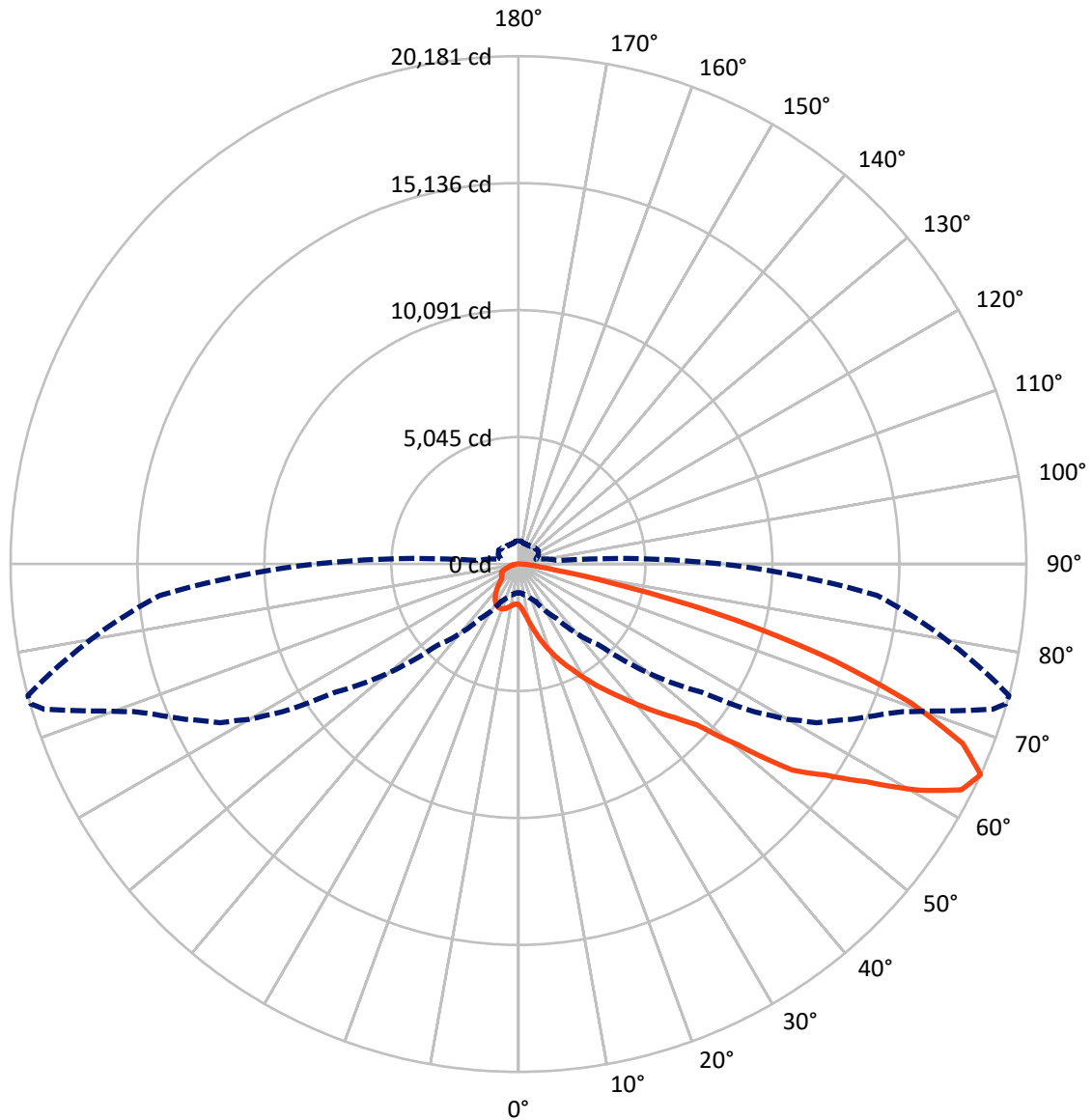


Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type II - Short - Full Cutoff

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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	3074.4	0.0	3074.4
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	16866.6	0.0	16866.6
	% Fixture	84.6	0.0	84.6
Total	Lumens	19941.0	0.0	19941.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.3	1.0
10°-20°	782.7	3.9
20°-30°	1605.8	8.1
30°-40°	2701.6	13.5
40°-50°	3732.9	18.7
50°-60°	4659.7	23.4
60°-70°	4193.2	21.0
70°-80°	1757.8	8.8
80°-90°	307.1	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°	19941.0	100.0
0°-180°	19941.0	100.0

Coefficient of Utilization



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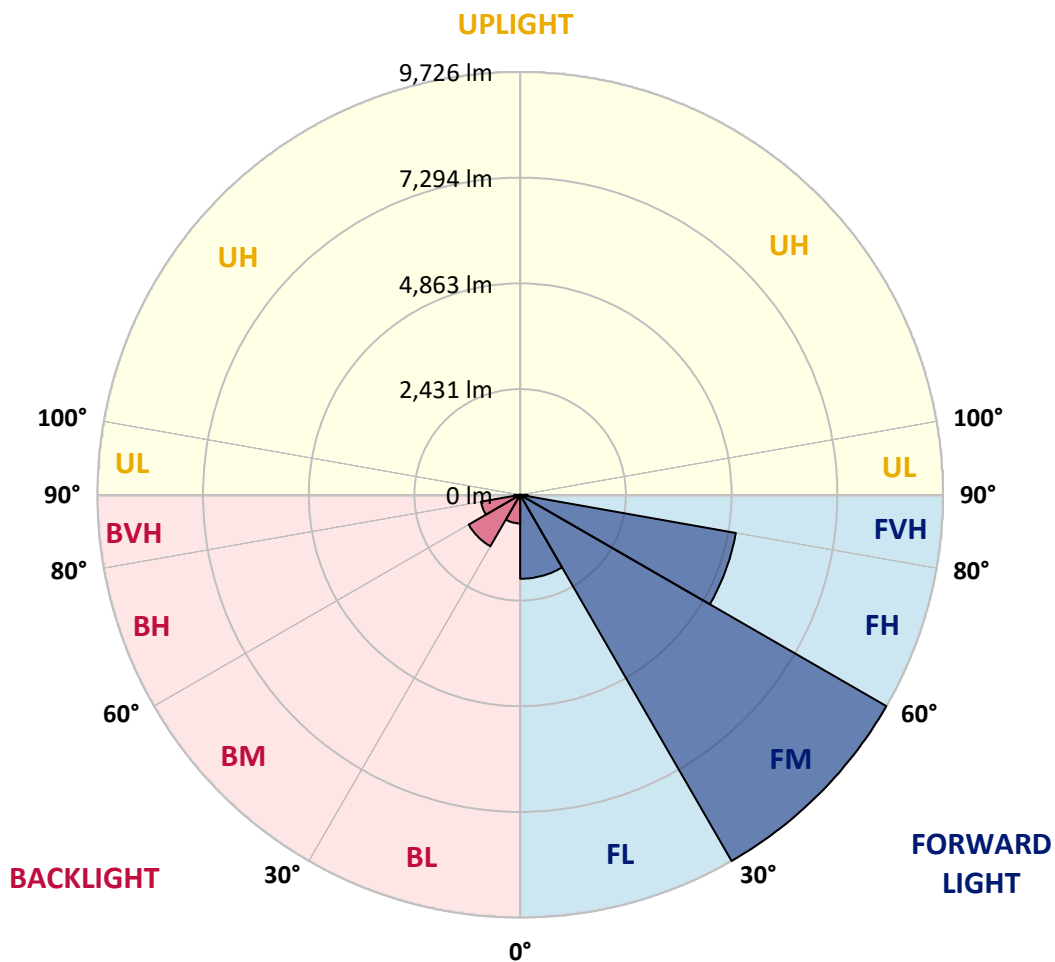
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1931.2	9.7			
FM	(30°-60°)	9725.7	48.8			
FH	(60°-80°)	5037.0	25.3			G3/7500
FVH	(80°-90°)	172.6	0.9			G2/225
BL	(0°-30°)	657.5	3.3	B2/1000		
BM	(30°-60°)	1368.5	6.9	B2/2500		
BH	(60°-80°)	914.0	4.6	B2/1000		G2/1000
BVH	(80°-90°)	134.5	0.7			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	1620.6	1620.6	1620.6	1620.6	1620.6	1620.6	1620.6	1620.6	1620.6	1620.6	1620.6
2.5°	2057.6	2034.9	2040.6	2002.8	1956.6	1896.2	1829.2	1828.2	1829.2	1822.6	1798.0
5°	2853.3	2825.9	2815.5	2730.6	2606.0	2428.5	2236.0	2215.2	2206.7	2185.0	2135.0
7.5°	3433.7	3418.6	3402.6	3338.4	3225.1	3026.9	2768.3	2723.9	2681.5	2671.1	2614.5
10°	3808.4	3804.7	3770.7	3753.7	3682.9	3511.1	3259.1	3216.6	3170.4	3154.3	3094.9
12.5°	4104.8	4103.9	4087.8	4092.5	4031.2	3906.6	3689.5	3650.8	3616.8	3567.7	3525.3
15°	4309.6	4310.6	4334.2	4360.6	4351.1	4267.1	4063.3	4046.3	4017.0	3983.0	3933.0
17.5°	4477.6	4482.3	4506.9	4555.0	4606.9	4600.3	4438.9	4424.8	4399.3	4353.0	4326.6
20°	4857.0	4875.0	4827.8	4827.8	4833.4	4858.9	4781.5	4770.2	4734.3	4709.8	4689.0
22.5°	5497.9	5518.7	5412.0	5303.5	5196.8	5119.4	5042.0	5056.2	5031.7	5014.7	5002.4
25°	6330.4	6346.4	6173.7	5990.6	5773.5	5490.4	5298.8	5290.3	5277.1	5266.7	5261.0
27.5°	7113.8	7120.4	6957.1	6689.1	6437.0	6030.2	5559.3	5548.9	5532.8	5513.0	5496.0
30°	7783.9	7782.0	7614.0	7358.2	7088.3	6638.1	5954.7	5922.6	5875.5	5821.7	5780.1
32.5°	8364.4	8361.6	8177.5	7912.3	7629.1	7240.3	6496.5	6430.4	6356.8	6252.1	6188.8
35°	8821.2	8819.3	8645.7	8369.1	8044.4	7807.5	7117.6	7036.4	6942.9	6802.3	6705.1
37.5°	8993.9	8993.9	8896.7	8707.9	8421.0	8258.7	7807.5	7709.4	7609.3	7449.8	7340.3
40°	8892.9	8894.8	8915.6	8880.7	8741.0	8616.4	8451.2	8392.7	8306.8	8163.3	8049.1
42.5°	8554.1	8564.5	8702.3	8871.2	8941.1	8921.3	9022.2	8995.8	8935.4	8825.0	8734.4
45°	8124.6	8156.7	8307.8	8626.8	8996.8	9184.6	9500.8	9503.6	9492.3	9432.8	9363.0
47.5°	7534.7	7580.0	7779.2	8210.5	8866.5	9440.4	9986.9	10012.3	10035.9	9997.2	9965.2
50°	6751.3	6805.1	7103.4	7675.4	8601.3	9705.6	10905.2	11020.4	11128.0	11114.8	11136.5
52.5°	5912.3	5975.5	6340.8	6977.9	8145.4	9766.9	11492.3	11680.1	11867.9	12021.8	12185.1
55°	5155.3	5121.3	5486.6	6157.7	7396.0	9490.4	12019.9	12246.4	12456.0	12644.7	12839.2
57.5°	4129.3	4185.0	4551.2	5214.8	6404.0	8709.8	12383.3	12714.6	13015.7	13328.1	13603.7
60°	3018.4	3074.1	3471.5	4145.4	5327.1	7526.2	12105.8	12607.9	13090.2	13568.8	13942.5
62.5°	1822.6	1864.1	2214.3	2856.1	4107.6	6122.7	10869.4	11528.2	12237.9	12809.9	13382.8
65°	1134.5	1158.1	1287.4	1640.4	2638.1	4571.1	8880.7	9598.9	10363.5	11089.3	11684.8
67.5°	928.7	937.2	960.8	1036.3	1448.8	2980.7	6609.8	7245.9	7935.9	8638.1	9300.7
70°	835.3	829.6	829.6	834.4	928.7	1602.7	4327.5	4741.9	5316.7	5927.4	6533.3
72.5°	754.1	748.5	738.1	723.9	757.9	977.8	2236.9	2549.3	2963.7	3506.4	4086.9
75°	677.7	670.1	657.9	639.9	663.5	738.1	1074.1	1205.3	1407.3	1696.1	2019.8
77.5°	598.4	589.0	577.6	564.4	594.6	573.9	629.5	676.7	754.1	846.6	968.4
80°	508.7	500.2	496.5	489.9	525.7	437.0	444.6	473.8	519.1	569.1	625.8
82.5°	398.3	398.3	413.4	416.2	455.9	314.3	332.2	357.7	381.3	407.7	434.2
85°	262.4	264.3	315.2	335.1	359.6	211.4	249.2	257.7	276.5	291.6	303.0
87.5°	82.1	88.7	192.5	213.3	206.7	119.9	152.9	156.7	169.9	180.3	189.7
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°	1620.6	1620.6	1620.6	1620.6	1620.6	1620.6	1620.6	1620.6	1620.6	1620.6	1620.6
2.5°	1798.0	1786.7	1776.3	1775.4	1767.8	1757.4	1761.2	1745.2	1746.1	1737.6	1728.2
5°	2114.2	2106.7	2068.9	2058.5	2030.2	2012.3	2009.5	1971.7	1967.0	1945.3	1921.7
7.5°	2569.2	2544.6	2491.8	2466.3	2418.1	2382.3	2365.3	2315.3	2290.7	2234.1	2208.6
10°	3045.8	3014.7	2949.5	2913.7	2867.4	2809.8	2778.7	2706.0	2677.7	2625.8	2563.5
12.5°	3487.5	3456.4	3389.4	3362.0	3300.6	3239.3	3205.3	3123.2	3086.4	3003.3	2954.2
15°	3896.2	3865.1	3806.5	3778.2	3716.9	3666.9	3621.5	3540.4	3497.0	3419.6	3355.4
17.5°	4292.6	4259.6	4208.6	4183.1	4123.7	4072.7	4023.6	3947.2	3902.8	3825.4	3767.8
20°	4660.7	4636.2	4599.4	4565.4	4505.9	4459.7	4401.2	4335.1	4270.9	4214.3	4159.5
22.5°	4981.6	4972.2	4932.6	4917.5	4866.5	4826.8	4775.9	4710.7	4664.5	4592.8	4541.8
25°	5258.2	5255.3	5236.5	5231.8	5195.9	5158.1	5146.8	5093.0	5050.5	4987.3	4934.4
27.5°	5496.0	5498.9	5494.1	5507.4	5497.9	5480.9	5481.9	5463.9	5439.4	5386.5	5340.3
30°	5760.3	5745.2	5753.7	5772.6	5778.2	5780.1	5811.3	5821.7	5819.8	5784.8	5762.2
32.5°	6134.1	6098.2	6065.2	6062.3	6081.2	6088.8	6141.6	6169.0	6192.6	6201.1	6204.9
35°	6610.7	6539.0	6470.1	6433.3	6401.2	6409.7	6447.4	6491.8	6543.7	6579.6	6622.0
37.5°	7211.0	7123.2	7001.5	6914.6	6892.9	6845.7	6870.3	6905.2	6956.2	7011.8	7085.5
40°	7938.7	7805.6	7668.8	7553.6	7491.3	7404.5	7403.5	7396.9	7428.1	7480.0	7583.8
42.5°	8639.0	8521.1	8375.7	8254.9	8173.7	8057.6	8034.0	7972.7	7986.8	8032.1	8133.1
45°	9295.0	9197.8	9109.1	8969.4	8900.5	8775.0	8735.3	8662.6	8622.1	8642.8	8743.8
47.5°	9930.2	9867.9	9775.4	9684.8	9632.0	9519.7	9468.7	9416.8	9364.9	9363.0	9468.7
50°	11168.6	11135.5	11026.0	10931.7	10957.1	10819.3	10827.8	10688.1	10751.4	10758.9	10980.7
52.5°	12332.3	12447.5	12528.6	12627.7	12691.9	12704.2	12746.7	12809.9	12886.4	13037.4	13243.1
55°	12998.7	13143.1	13227.1	13302.6	13427.2	13453.6	13524.4	13608.4	13675.4	13845.3	14019.9
57.5°	13790.6	14058.6	14188.9	14308.7	14476.7	14540.9	14658.9	14750.5	14837.3	15038.3	15249.8
60°	14278.5	14605.1	14870.3	15060.0	15270.5	15421.5	15599.9	15743.4	15947.3	16187.9	16503.2
62.5°	13890.6	14370.1	14722.1	15047.8	15333.8	15622.6	15878.4	16146.4	16456.0	16820.3	17309.2
65°	12345.5	12833.5	13436.6	13774.5	14153.0	14598.5	14987.4	15421.5	15843.4	16373.9	17096.9
67.5°	9938.7	10506.0	11183.7	11524.4	11959.5	12456.9	12893.0	13423.4	13916.1	14558.9	15452.7
70°	7163.8	7897.2	8467.3	8823.1	9330.9	9843.4	10264.4	10881.6	11289.4	11948.2	12872.2
72.5°	4536.1	5114.7	5813.2	6261.5	6712.6	7231.8	7662.2	8194.5	8574.9	9175.2	10012.3
75°	2438.9	2865.5	3479.0	3904.7	4388.0	4831.6	5335.6	5692.3	5973.6	6448.4	7127.9
77.5°	1143.0	1402.6	1713.1	2040.6	2368.1	2709.8	3042.0	3330.8	3451.7	3723.5	4124.6
80°	693.7	777.7	868.3	969.3	1106.2	1216.6	1362.9	1468.6	1476.2	1562.1	1684.8
82.5°	463.4	494.6	521.9	547.4	582.4	609.7	640.9	677.7	692.8	712.6	752.2
85°	316.2	331.3	337.0	353.0	349.2	358.7	370.9	383.2	389.8	388.9	406.8
87.5°	194.4	202.0	205.8	209.5	206.7	202.9	208.6	215.2	217.1	211.4	213.3
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°	1620.6	1620.6	1620.6	1620.6	1620.6	1620.6	1620.6	1620.6	1620.6	1620.6	1620.6
2.5°	1730.1	1721.6	1713.1	1707.4	1705.5	1655.5	1633.8	1619.6	1589.4	1564.9	1545.1
5°	1908.5	1890.5	1876.4	1859.4	1849.9	1723.5	1677.2	1645.1	1592.3	1561.1	1532.8
7.5°	2195.4	2145.4	2116.1	2083.1	2054.8	1826.3	1749.9	1699.9	1626.3	1584.7	1552.6
10°	2521.0	2469.1	2422.9	2371.9	2327.5	1963.2	1851.8	1774.4	1677.2	1623.4	1580.9
12.5°	2884.4	2833.4	2774.9	2709.8	2653.2	2136.9	1982.1	1871.7	1738.6	1666.8	1607.4
15°	3313.9	3224.2	3153.4	3077.9	3011.8	2344.5	2134.0	1981.1	1803.7	1706.5	1627.2
17.5°	3713.1	3618.7	3522.4	3456.4	3379.9	2577.6	2286.9	2092.5	1857.5	1732.0	1631.0
20°	4102.9	4000.0	3917.0	3828.2	3748.0	2819.3	2450.2	2190.7	1892.4	1732.9	1607.4
22.5°	4446.5	4382.3	4289.8	4193.5	4112.3	3060.9	2603.1	2273.7	1905.6	1711.2	1565.8
25°	4837.2	4769.3	4656.0	4574.8	4484.2	3307.2	2753.2	2337.9	1898.1	1670.6	1501.7
27.5°	5254.4	5178.9	5062.8	4977.9	4868.4	3563.0	2891.0	2384.2	1869.8	1604.5	1415.8
30°	5689.5	5620.6	5506.4	5420.5	5310.1	3833.9	3044.9	2415.3	1813.1	1513.0	1315.7
32.5°	6156.7	6099.1	5985.9	5896.2	5778.2	4127.4	3188.3	2424.7	1727.2	1404.4	1210.0
35°	6600.3	6560.7	6465.4	6381.4	6258.7	4404.9	3340.3	2420.0	1625.3	1285.5	1113.7
37.5°	7099.6	7076.0	7028.8	6922.2	6772.1	4781.5	3522.4	2400.2	1500.7	1167.5	1040.1
40°	7632.0	7633.8	7582.9	7510.2	7370.5	5238.4	3739.5	2361.5	1364.8	1063.7	973.1
42.5°	8195.4	8224.7	8200.2	8148.2	8014.2	5699.0	3999.1	2314.3	1232.7	962.7	907.0
45°	8841.0	8876.9	8914.6	8838.2	8707.9	6306.8	4340.8	2253.0	1090.1	878.7	861.7
47.5°	9585.7	9642.4	9676.3	9677.3	9547.0	7060.0	4895.7	2216.2	963.7	822.1	840.0
50°	11157.2	11175.2	11255.4	11395.1	11295.0	8803.3	5865.1	2193.5	877.8	787.2	824.0
52.5°	13421.5	13618.8	13757.5	13748.1	13612.2	9910.4	6399.3	2076.5	826.8	774.0	816.4
55°	14343.7	14590.0	14846.7	14914.7	14809.0	10855.2	6904.3	1959.4	802.3	783.4	819.3
57.5°	15572.6	15987.8	16339.9	16488.1	16335.2	12064.3	7568.7	1898.1	794.7	808.9	837.2
60°	17008.1	17521.6	17984.1	18250.3	18250.3	13453.6	8257.7	1872.6	784.3	846.6	867.4
62.5°	17930.3	18684.4	19382.9	19772.7	19761.4	14421.1	8563.5	1785.8	760.7	873.1	908.9
65°	17934.1	18830.7	19720.8	20158.7	20181.4	14302.1	8058.6	1577.2	717.3	876.8	950.5
67.5°	16439.0	17395.1	18432.4	18922.3	19035.5	13165.7	6976.0	1296.8	646.5	839.1	965.6
70°	13884.0	14817.5	15876.5	16357.8	16558.9	11223.3	5618.7	999.5	555.9	756.0	934.4
72.5°	10938.3	11853.8	12590.9	12943.0	13099.7	8578.6	4091.6	755.1	455.9	637.1	850.4
75°	7744.3	8431.4	8823.1	8901.4	8926.0	5171.3	2486.1	561.6	375.7	495.5	718.3
77.5°	4371.0	4665.4	4633.4	4668.3	4377.6	1996.2	1082.6	402.1	309.6	376.6	556.9
80°	1706.5	1759.3	1652.7	1619.6	1485.6	742.8	477.6	280.3	247.3	285.0	389.8
82.5°	752.2	776.8	754.1	759.8	726.8	383.2	286.0	202.9	188.8	208.6	258.6
85°	414.3	421.9	420.0	432.3	414.3	152.9	135.9	124.6	132.1	141.6	166.1
87.5°	202.0	203.9	197.3	207.6	201.0	77.4	67.0	70.8	77.4	79.3	79.3
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):

	135°	145°	155°	165°	175°	180°
0°	1620.6	1620.6	1620.6	1620.6	1620.6	1620.6
2.5°	1530.9	1523.4	1524.3	1522.4	1518.7	1518.7
5°	1517.7	1510.2	1510.2	1508.3	1503.6	1504.5
7.5°	1530.9	1518.7	1513.9	1507.3	1500.7	1500.7
10°	1546.0	1524.3	1511.1	1499.8	1491.3	1491.3
12.5°	1557.3	1523.4	1501.7	1486.6	1478.1	1478.1
15°	1561.1	1516.8	1486.6	1468.6	1461.1	1460.1
17.5°	1548.9	1491.3	1454.5	1433.7	1424.3	1421.4
20°	1511.1	1445.0	1400.7	1377.1	1363.9	1359.1
22.5°	1454.5	1379.0	1327.1	1302.5	1285.5	1282.7
25°	1375.2	1294.0	1243.0	1219.5	1210.0	1207.2
27.5°	1282.7	1207.2	1163.8	1148.7	1140.2	1139.2
30°	1194.9	1130.7	1098.6	1087.3	1076.9	1075.0
32.5°	1112.8	1072.2	1059.9	1043.9	1019.4	1016.5
35°	1054.3	1050.5	1042.0	1006.1	975.9	967.4
37.5°	1018.4	1053.3	1009.9	939.1	917.4	915.5
40°	997.6	1024.1	949.5	925.0	926.9	925.0
42.5°	950.5	977.8	951.4	940.1	947.6	949.5
45°	903.3	933.5	965.6	958.0	975.9	975.9
47.5°	876.8	922.1	964.6	964.6	991.0	1000.5
50°	846.6	912.7	949.5	962.7	983.5	975.9
52.5°	844.7	896.7	927.8	951.4	960.8	952.3
55°	847.6	883.4	906.1	932.5	943.8	944.8
57.5°	851.4	875.9	891.0	903.3	937.2	937.2
60°	860.8	869.3	877.8	884.4	928.7	929.7
62.5°	875.9	862.7	860.8	867.4	924.0	920.3
65°	899.5	853.2	839.1	845.7	919.3	908.0
67.5°	931.6	839.1	811.7	816.4	915.5	891.0
70°	960.8	816.4	777.7	773.0	879.7	836.2
72.5°	963.7	790.0	730.5	716.4	764.5	723.0
75°	916.5	772.1	678.6	637.1	631.4	625.8
77.5°	825.9	761.7	618.2	553.1	541.8	545.5
80°	690.9	723.0	545.5	468.1	529.5	522.9
82.5°	516.3	638.0	463.4	414.3	413.4	365.3
85°	286.9	497.4	377.5	310.5	216.1	209.5
87.5°	80.2	276.5	264.3	175.6	119.9	124.6
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)