

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: P193143

Luminaire Tested: **GLEON-AF-05-LED-E1-T2R-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193143
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-05-LED-E1-T2R-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24218.4 lumens
Efficiency: N/A
Efficacy: 115.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 210
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



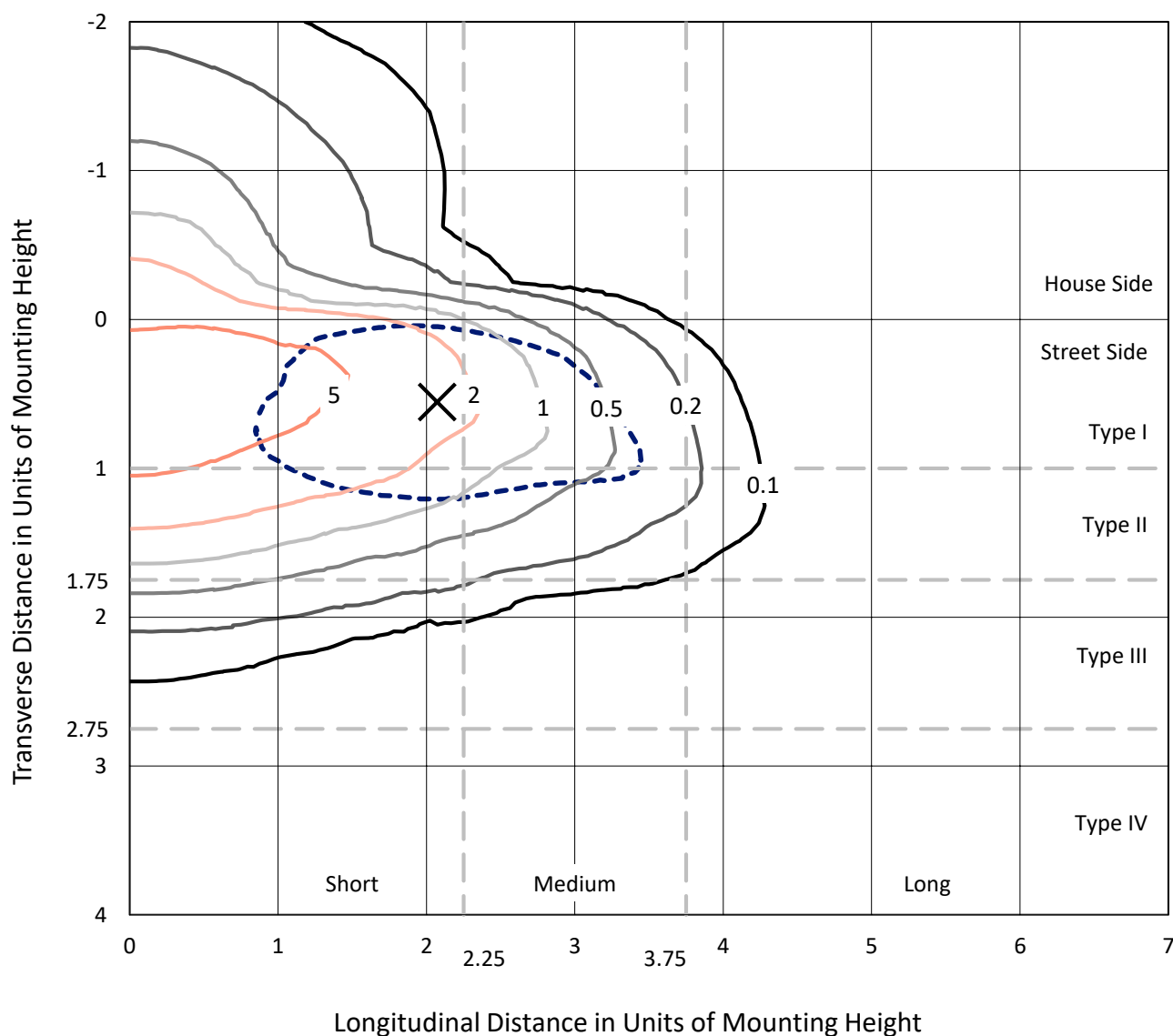
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

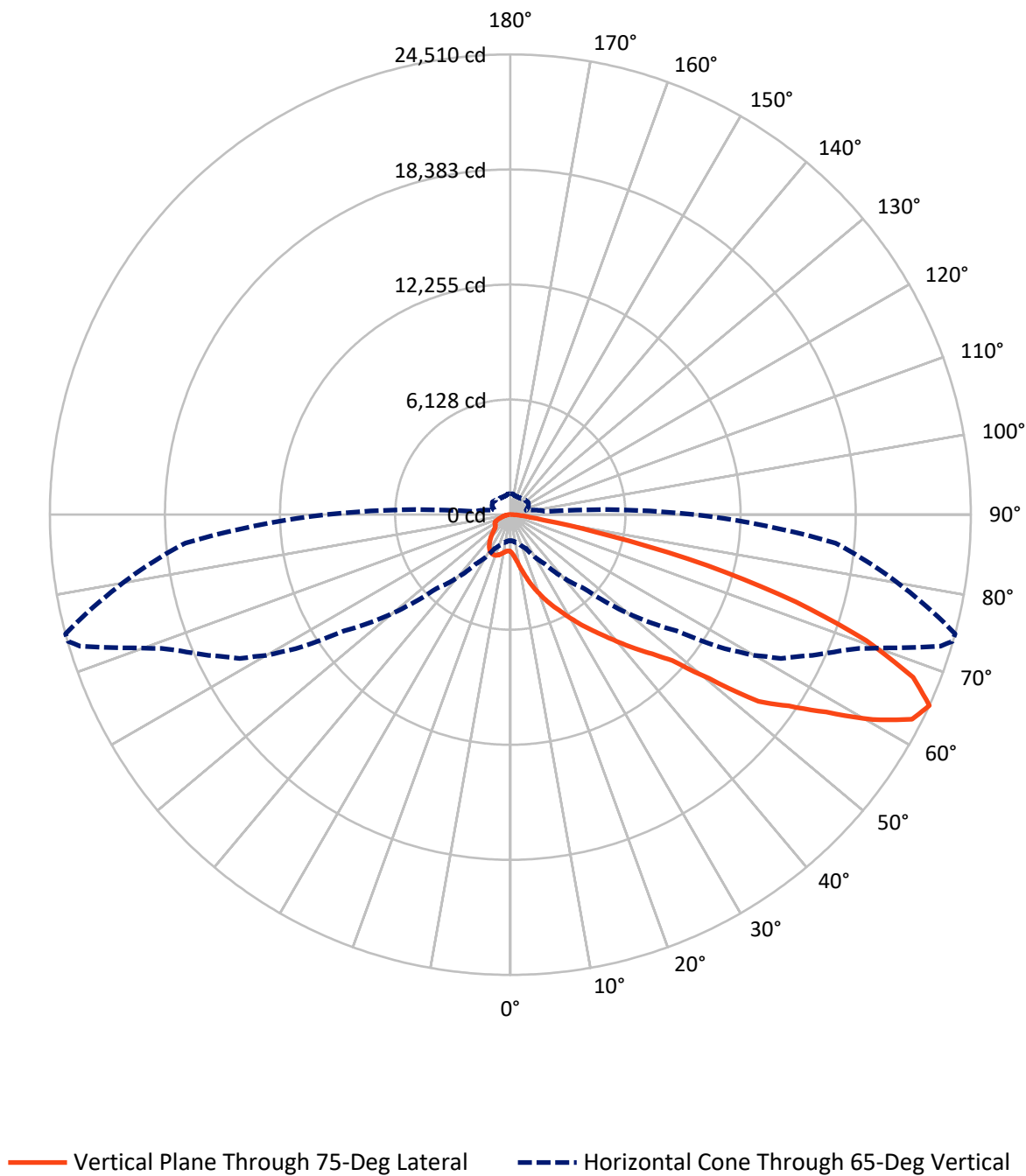


Based on 25 foot mounting height. Maximum calculated value = 9.8 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3733.9	0.0	3733.9
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	20484.5	0.0	20484.5
	% Fixture	84.6	0.0	84.6
Total	Lumens	24218.4	0.0	24218.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.3	1.0
10°-20°	950.5	3.9
20°-30°	1950.2	8.1
30°-40°	3281.1	13.5
40°-50°	4533.6	18.7
50°-60°	5659.2	23.4
60°-70°	5092.7	21.0
70°-80°	2134.8	8.8
80°-90°	373.0	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°	24218.4	100.0
0°-180°	24218.4	100.0

Coefficient of Utilization



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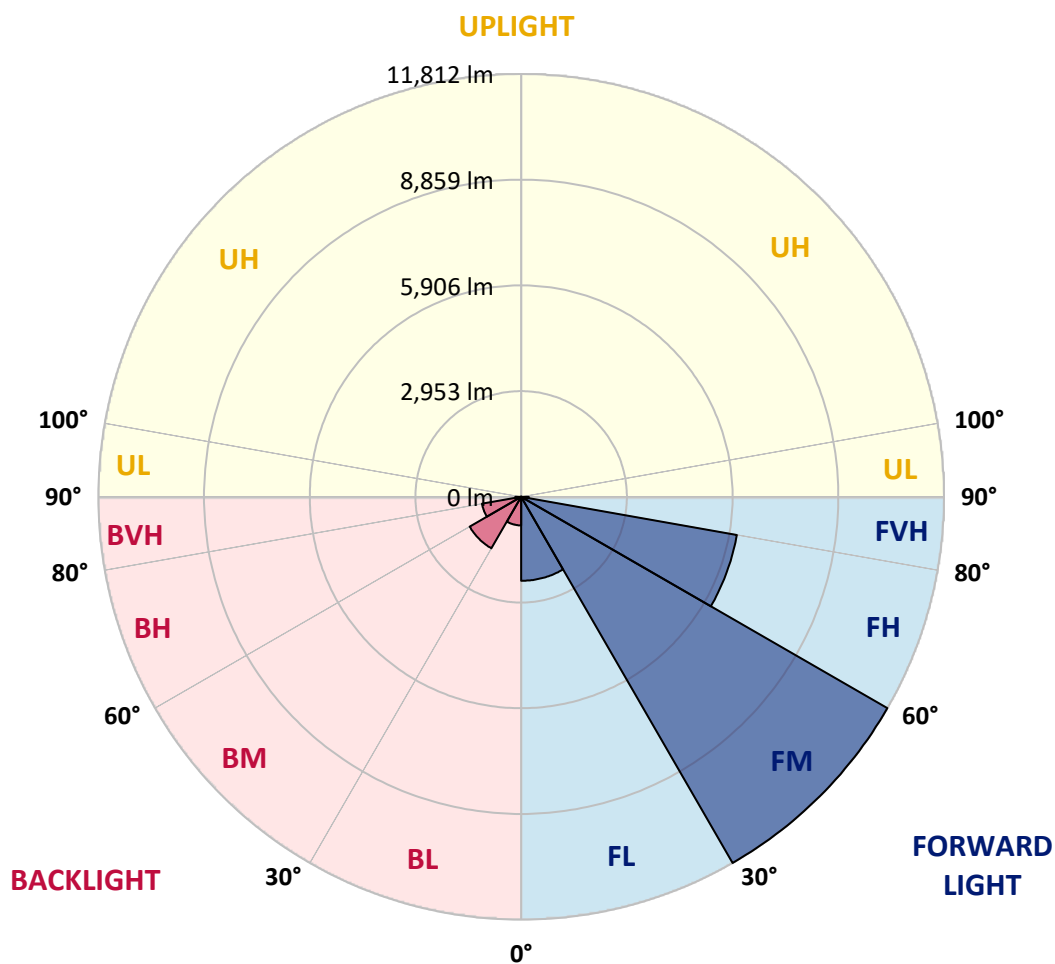
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2345.5	9.7			
FM	(30°-60°)	11811.9	48.8			
FH	(60°-80°)	6117.5	25.3			G3/7500
FVH	(80°-90°)	209.6	0.9			G2/225
BL	(0°-30°)	798.5	3.3	B2/1000		
BM	(30°-60°)	1662.0	6.9	B2/2500		
BH	(60°-80°)	1110.0	4.6	B3/2500		G3/2500
BVH	(80°-90°)	163.3	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°	1968.2	1968.2	1968.2	1968.2	1968.2	1968.2	1968.2	1968.2	1968.2	1968.2	1968.2
2.5°	2499.0	2471.5	2478.3	2432.4	2376.3	2302.9	2221.6	2220.3	2221.6	2213.5	2183.8
5°	3465.2	3432.1	3419.5	3316.2	3164.9	2949.5	2715.6	2690.4	2680.0	2653.7	2592.9
7.5°	4170.3	4152.0	4132.4	4054.5	3917.0	3676.2	3362.1	3308.3	3256.7	3244.0	3175.3
10°	4625.4	4620.8	4579.5	4558.9	4472.8	4264.3	3958.3	3906.6	3850.4	3830.9	3758.7
12.5°	4985.3	4984.2	4964.6	4970.4	4895.9	4744.6	4480.9	4434.0	4392.7	4333.0	4281.5
15°	5234.1	5235.1	5263.9	5295.9	5284.5	5182.5	4934.8	4914.3	4878.7	4837.5	4776.7
17.5°	5438.1	5443.9	5473.6	5532.2	5595.1	5587.1	5391.1	5373.9	5342.9	5286.7	5254.8
20°	5898.9	5920.6	5863.4	5863.4	5870.3	5901.2	5807.2	5793.5	5749.9	5720.0	5694.8
22.5°	6677.3	6702.5	6572.9	6441.1	6311.6	6217.6	6123.6	6140.8	6111.0	6090.3	6075.5
25°	7688.2	7707.8	7498.0	7275.6	7011.9	6668.1	6435.4	6425.1	6409.0	6396.4	6389.5
27.5°	8639.6	8647.8	8449.4	8123.9	7817.8	7323.7	6751.7	6739.1	6719.7	6695.6	6674.9
30°	9453.5	9451.3	9247.2	8936.7	8608.7	8062.0	7232.1	7193.1	7135.7	7070.3	7020.0
32.5°	10158.6	10155.1	9931.5	9609.5	9265.6	8793.3	7890.0	7809.8	7720.4	7593.2	7516.4
35°	10713.4	10711.1	10500.2	10164.3	9770.0	9482.3	8644.3	8545.7	8432.2	8261.4	8143.3
37.5°	10923.2	10923.2	10805.0	10575.9	10227.3	10030.2	9482.3	9363.1	9241.4	9047.8	8914.8
40°	10800.5	10802.8	10828.0	10785.6	10615.9	10464.7	10264.1	10193.1	10088.7	9914.4	9775.8
42.5°	10389.0	10401.6	10568.9	10774.2	10858.9	10834.9	10957.5	10925.5	10852.0	10718.0	10607.9
45°	9867.4	9906.4	10089.8	10477.2	10926.6	11154.8	11538.8	11542.1	11528.4	11456.2	11371.3
47.5°	9151.0	9205.9	9447.8	9971.8	10768.4	11465.3	12129.1	12160.0	12188.6	12141.7	12102.7
50°	8199.6	8264.9	8627.1	9321.8	10446.3	11787.4	13244.4	13384.3	13515.0	13498.9	13525.3
52.5°	7180.5	7257.2	7700.9	8474.7	9892.7	11861.9	13957.5	14185.5	14413.7	14600.6	14798.8
55°	6261.1	6219.9	6663.5	7478.5	8982.4	11526.1	14598.2	14873.4	15127.8	15357.1	15593.3
57.5°	5015.1	5082.7	5527.5	6333.3	7777.7	10578.2	15039.5	15441.9	15807.5	16187.0	16521.7
60°	3665.8	3733.5	4216.1	5034.5	6469.8	9140.6	14702.6	15312.3	15898.1	16479.3	16933.2
62.5°	2213.5	2264.0	2689.2	3468.8	4988.8	7436.0	13200.9	14001.0	14863.0	15557.7	16253.5
65°	1377.9	1406.5	1563.6	1992.3	3203.9	5551.6	10785.6	11658.0	12586.4	13468.0	14191.2
67.5°	1128.0	1138.3	1166.9	1258.6	1759.6	3620.1	8027.6	8800.2	9638.2	10491.0	11295.7
70°	1014.5	1007.6	1007.6	1013.4	1128.0	1946.5	5255.8	5759.0	6457.1	7198.8	7934.7
72.5°	915.9	909.0	896.4	879.2	920.5	1187.5	2716.7	3096.2	3599.4	4258.5	4963.5
75°	823.0	813.9	799.0	777.2	805.9	896.4	1304.4	1463.8	1709.2	2059.9	2453.1
77.5°	726.8	715.3	701.6	685.5	722.2	697.0	764.6	821.8	915.9	1028.2	1176.0
80°	617.9	607.6	603.0	594.9	638.5	530.8	540.0	575.5	630.4	691.2	760.0
82.5°	483.7	483.7	502.0	505.6	553.6	381.8	403.5	434.5	463.2	495.2	527.2
85°	318.7	321.0	382.9	407.0	436.7	256.8	302.6	312.9	335.9	354.2	367.9
87.5°	99.8	107.7	233.9	259.1	251.1	145.6	185.7	190.3	206.3	218.9	230.4
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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CATALOG NUMBER: GLEON-AF-05-LED-E1-T2R-7030-800

CANDELA DISTRIBUTION (continued):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	1968.2	1968.2	1968.2	1968.2	1968.2	1968.2	1968.2	1968.2	1968.2	1968.2	1968.2
2.5°	2183.8	2170.0	2157.4	2156.2	2147.1	2134.4	2139.0	2119.5	2120.7	2110.4	2098.9
5°	2567.7	2558.6	2512.8	2500.1	2465.7	2443.9	2440.6	2394.6	2389.0	2362.5	2333.9
7.5°	3120.2	3090.4	3026.3	2995.4	2936.9	2893.3	2872.7	2811.9	2782.1	2713.4	2682.4
10°	3699.1	3661.3	3582.2	3538.7	3482.5	3412.6	3374.7	3286.4	3252.1	3189.1	3113.4
12.5°	4235.7	4197.7	4116.4	4083.1	4008.6	3934.1	3892.9	3793.2	3748.4	3647.5	3588.0
15°	4731.9	4694.1	4623.1	4588.7	4514.1	4453.4	4398.3	4299.8	4247.0	4153.1	4075.2
17.5°	5213.5	5173.3	5111.3	5080.4	5008.2	4946.2	4886.7	4793.9	4740.0	4646.0	4576.1
20°	5660.5	5630.6	5586.0	5544.7	5472.5	5416.3	5345.2	5264.9	5187.1	5118.2	5051.8
22.5°	6050.2	6038.8	5990.5	5972.2	5910.4	5862.2	5800.3	5721.3	5665.1	5577.9	5516.1
25°	6386.1	6382.6	6359.8	6354.0	6310.4	6264.6	6250.8	6185.5	6134.0	6057.2	5992.9
27.5°	6674.9	6678.4	6672.7	6688.8	6677.3	6656.6	6657.7	6636.0	6606.2	6542.0	6485.8
30°	6995.9	6977.7	6987.9	7010.8	7017.7	7020.0	7057.8	7070.3	7068.1	7025.7	6998.2
32.5°	7449.9	7406.2	7366.2	7362.8	7385.7	7394.7	7459.0	7492.2	7521.0	7531.2	7535.8
35°	8028.7	7941.6	7857.9	7813.2	7774.3	7784.6	7830.4	7884.2	7947.3	7990.9	8042.5
37.5°	8757.7	8651.1	8503.3	8397.8	8371.5	8314.2	8344.0	8386.4	8448.3	8515.8	8605.4
40°	9641.6	9480.0	9313.7	9173.9	9098.2	8992.8	8991.6	8983.7	9021.4	9084.5	9210.5
42.5°	10492.1	10348.8	10172.4	10025.6	9927.0	9786.1	9757.4	9682.9	9700.0	9755.1	9877.7
45°	11288.7	11170.7	11063.0	10893.3	10809.7	10657.2	10609.1	10520.8	10471.5	10496.7	10619.4
47.5°	12060.2	11984.6	11872.3	11762.3	11698.1	11561.6	11499.7	11436.7	11373.7	11371.3	11499.7
50°	13564.2	13524.1	13391.2	13276.5	13307.4	13140.1	13150.5	12980.8	13057.6	13066.8	13336.1
52.5°	14977.7	15117.5	15216.1	15336.4	15414.4	15429.3	15480.8	15557.7	15650.6	15834.0	16083.8
55°	15787.0	15962.3	16064.4	16156.0	16307.4	16339.5	16425.4	16527.4	16608.8	16815.2	17027.3
57.5°	16748.7	17074.3	17232.5	17378.0	17582.0	17660.0	17803.2	17914.4	18019.9	18264.1	18520.9
60°	17341.3	17737.9	18060.1	18290.4	18546.1	18729.5	18946.2	19120.4	19368.0	19660.3	20043.2
62.5°	16870.1	17452.5	17880.1	18275.6	18622.9	18973.6	19284.4	19609.9	19985.8	20428.3	21022.1
65°	14993.6	15586.4	16318.9	16729.2	17188.8	17729.9	18202.1	18729.5	19241.8	19886.2	20764.1
67.5°	12070.6	12759.6	13582.6	13996.4	14524.8	15128.9	15658.6	16302.8	16901.1	17681.8	18767.4
70°	8700.5	9591.1	10283.5	10715.7	11332.4	11954.8	12466.1	13215.8	13711.0	14511.0	15633.4
72.5°	5509.2	6211.8	7060.2	7604.6	8152.5	8783.1	9305.7	9952.2	10414.1	11143.3	12160.0
75°	2962.0	3480.2	4225.3	4742.3	5329.2	5868.0	6480.0	6913.4	7255.0	7831.6	8656.9
77.5°	1388.1	1703.5	2080.6	2478.3	2876.0	3291.0	3694.5	4045.4	4192.1	4522.1	5009.3
80°	842.5	944.5	1054.6	1177.3	1343.5	1477.6	1655.3	1783.6	1792.8	1897.2	2046.2
82.5°	562.8	600.7	633.9	664.9	707.2	740.6	778.4	823.0	841.4	865.5	913.6
85°	384.0	402.4	409.2	428.8	424.2	435.6	450.4	465.5	473.4	472.3	494.1
87.5°	236.1	245.3	249.8	254.5	251.1	246.5	253.4	261.3	263.7	256.8	259.1
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°	1968.2	1968.2	1968.2	1968.2	1968.2	1968.2	1968.2	1968.2	1968.2	1968.2	1968.2
2.5°	2101.2	2090.9	2080.6	2073.6	2071.3	2010.6	1984.2	1967.1	1930.4	1900.6	1876.5
5°	2317.8	2296.1	2278.8	2258.2	2246.8	2093.2	2037.0	1998.1	1933.8	1895.9	1861.6
7.5°	2666.4	2605.5	2570.0	2529.9	2495.5	2218.1	2125.2	2064.5	1975.1	1924.6	1885.7
10°	3061.8	2998.7	2942.6	2880.6	2826.7	2384.4	2249.1	2155.0	2037.0	1971.7	1920.0
12.5°	3503.1	3441.2	3370.1	3291.0	3222.3	2595.2	2407.2	2273.1	2111.6	2024.3	1952.1
15°	4024.7	3915.8	3829.9	3738.1	3657.9	2847.4	2591.8	2406.1	2190.5	2072.5	1976.3
17.5°	4509.5	4395.0	4278.0	4197.7	4104.9	3130.6	2777.5	2541.4	2255.9	2103.5	1980.9
20°	4983.0	4858.0	4757.1	4649.4	4552.0	3423.9	2975.7	2660.6	2298.4	2104.7	1952.1
22.5°	5400.2	5322.3	5209.9	5093.0	4994.5	3717.4	3161.5	2761.4	2314.4	2078.2	1901.7
25°	5874.9	5792.3	5654.7	5556.2	5446.1	4016.7	3343.8	2839.4	2305.3	2029.0	1823.7
27.5°	6381.5	6289.8	6148.8	6045.7	5912.7	4327.3	3511.1	2895.6	2270.9	1948.7	1719.4
30°	6909.9	6826.3	6687.5	6583.2	6449.1	4656.3	3698.0	2933.4	2202.0	1837.5	1597.9
32.5°	7477.3	7407.4	7269.9	7161.0	7017.7	5012.9	3872.2	2944.9	2097.8	1705.7	1469.5
35°	8016.2	7967.9	7852.3	7750.2	7601.1	5349.8	4056.8	2939.2	1974.0	1561.4	1352.6
37.5°	8622.5	8593.9	8536.5	8407.1	8224.7	5807.2	4278.0	2915.0	1822.7	1417.9	1263.2
40°	9269.0	9271.3	9209.5	9121.2	8951.5	6362.0	4541.7	2868.0	1657.6	1291.9	1181.8
42.5°	9953.4	9988.9	9959.1	9896.0	9733.3	6921.3	4856.9	2810.7	1497.1	1169.2	1101.6
45°	10737.5	10781.0	10826.8	10734.0	10575.9	7659.6	5271.9	2736.3	1324.0	1067.3	1046.6
47.5°	11641.9	11710.6	11751.9	11753.1	11594.9	8574.3	5945.9	2691.5	1170.3	998.4	1020.3
50°	13550.5	13572.3	13669.8	13839.4	13717.8	10691.6	7123.1	2664.1	1066.1	956.0	1000.7
52.5°	16300.5	16540.1	16708.6	16697.1	16532.0	12036.2	7771.9	2521.9	1004.2	939.9	991.5
55°	17420.4	17719.5	18031.4	18114.0	17985.6	13183.7	8385.2	2379.7	974.4	951.4	995.1
57.5°	18912.9	19417.3	19844.9	20024.8	19839.2	14652.1	9192.2	2305.3	965.2	982.4	1016.7
60°	20656.4	21280.0	21841.7	22165.0	22165.0	16339.5	10029.0	2274.2	952.6	1028.2	1053.5
62.5°	21776.4	22692.3	23540.6	24014.0	24000.2	17514.4	10400.4	2168.8	923.9	1060.4	1103.8
65°	21781.0	22869.9	23950.9	24482.9	24510.3	17370.0	9787.1	1915.6	871.3	1065.0	1154.4
67.5°	19965.3	21126.5	22386.2	22981.1	23118.7	15989.9	8472.4	1575.0	785.2	1019.1	1172.7
70°	16862.2	17995.9	19282.1	19866.6	20110.8	13630.7	6824.0	1214.0	675.2	918.3	1134.8
72.5°	13284.5	14396.4	15291.7	15719.3	15909.6	10418.8	4969.2	917.0	553.6	773.8	1032.8
75°	9405.5	10240.0	10715.7	10810.7	10840.6	6280.7	3019.4	682.1	456.2	601.8	872.3
77.5°	5308.6	5666.1	5627.2	5669.7	5316.5	2424.5	1314.8	488.3	376.0	457.4	676.4
80°	2072.5	2136.7	2007.2	1967.1	1804.3	902.2	580.0	340.5	300.4	346.2	473.4
82.5°	913.6	943.5	915.9	922.8	882.7	465.5	347.3	246.5	229.2	253.4	314.1
85°	503.2	512.4	510.1	525.0	503.2	185.7	165.1	151.4	160.5	172.0	201.8
87.5°	245.3	247.6	239.6	252.2	244.2	94.0	81.4	86.0	94.0	96.2	96.2
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°	1968.2	1968.2	1968.2	1968.2	1968.2	1968.2
2.5°	1859.3	1850.1	1851.3	1849.0	1844.4	1844.4
5°	1843.3	1834.1	1834.1	1831.8	1826.0	1827.3
7.5°	1859.3	1844.4	1838.8	1830.6	1822.7	1822.7
10°	1877.6	1851.3	1835.2	1821.5	1811.2	1811.2
12.5°	1891.4	1850.1	1823.7	1805.4	1795.1	1795.1
15°	1895.9	1842.1	1805.4	1783.6	1774.5	1773.4
17.5°	1881.1	1811.2	1766.5	1741.3	1729.8	1726.3
20°	1835.2	1755.0	1701.1	1672.4	1656.4	1650.7
22.5°	1766.5	1674.7	1611.7	1581.8	1561.4	1557.8
25°	1670.1	1571.5	1509.6	1481.0	1469.5	1466.1
27.5°	1557.8	1466.1	1413.4	1395.0	1384.8	1383.5
30°	1451.2	1373.3	1334.3	1320.5	1308.0	1305.6
32.5°	1351.5	1302.2	1287.3	1267.9	1238.0	1234.5
35°	1280.4	1275.8	1265.5	1221.9	1185.3	1175.0
37.5°	1236.9	1279.3	1226.6	1140.5	1114.2	1111.9
40°	1211.6	1243.7	1153.2	1123.4	1125.7	1123.4
42.5°	1154.4	1187.5	1155.5	1141.8	1150.9	1153.2
45°	1097.0	1133.7	1172.7	1163.5	1185.3	1185.3
47.5°	1065.0	1119.9	1171.5	1171.5	1203.6	1215.1
50°	1028.2	1108.4	1153.2	1169.2	1194.4	1185.3
52.5°	1026.0	1089.0	1126.8	1155.5	1166.9	1156.6
55°	1029.3	1072.9	1100.5	1132.6	1146.3	1147.4
57.5°	1033.9	1063.7	1082.1	1097.0	1138.3	1138.3
60°	1045.4	1055.8	1066.1	1074.1	1128.0	1129.0
62.5°	1063.7	1047.7	1045.4	1053.5	1122.2	1117.6
65°	1092.5	1036.3	1019.1	1027.0	1116.5	1102.8
67.5°	1131.4	1019.1	985.8	991.5	1111.9	1082.1
70°	1166.9	991.5	944.5	938.9	1068.3	1015.7
72.5°	1170.3	959.4	887.3	870.0	928.4	878.1
75°	1113.1	937.7	824.2	773.8	766.9	760.0
77.5°	1003.0	925.1	750.8	671.7	658.0	662.5
80°	839.1	878.1	662.5	568.5	643.1	635.1
82.5°	627.0	774.8	562.8	503.2	502.0	443.6
85°	348.4	604.1	458.6	377.2	262.6	254.5
87.5°	97.5	335.9	321.0	213.2	145.6	151.4
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)