

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: P193965

Luminaire Tested: **GLEON-AF-07-LED-E1-T2R-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193965
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-8030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 39263 lumens
Efficiency: N/A
Efficacy: 87.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G4

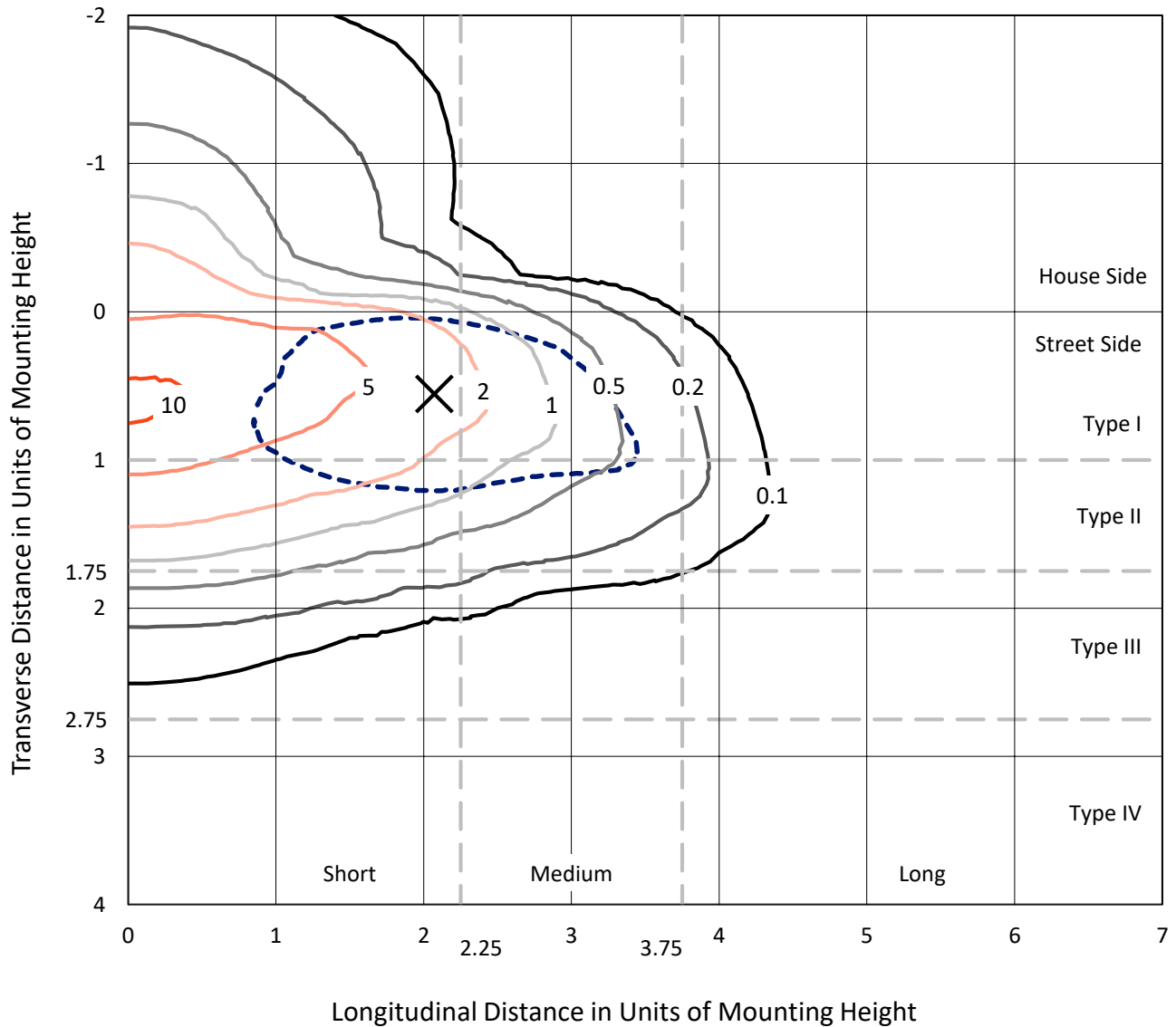
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

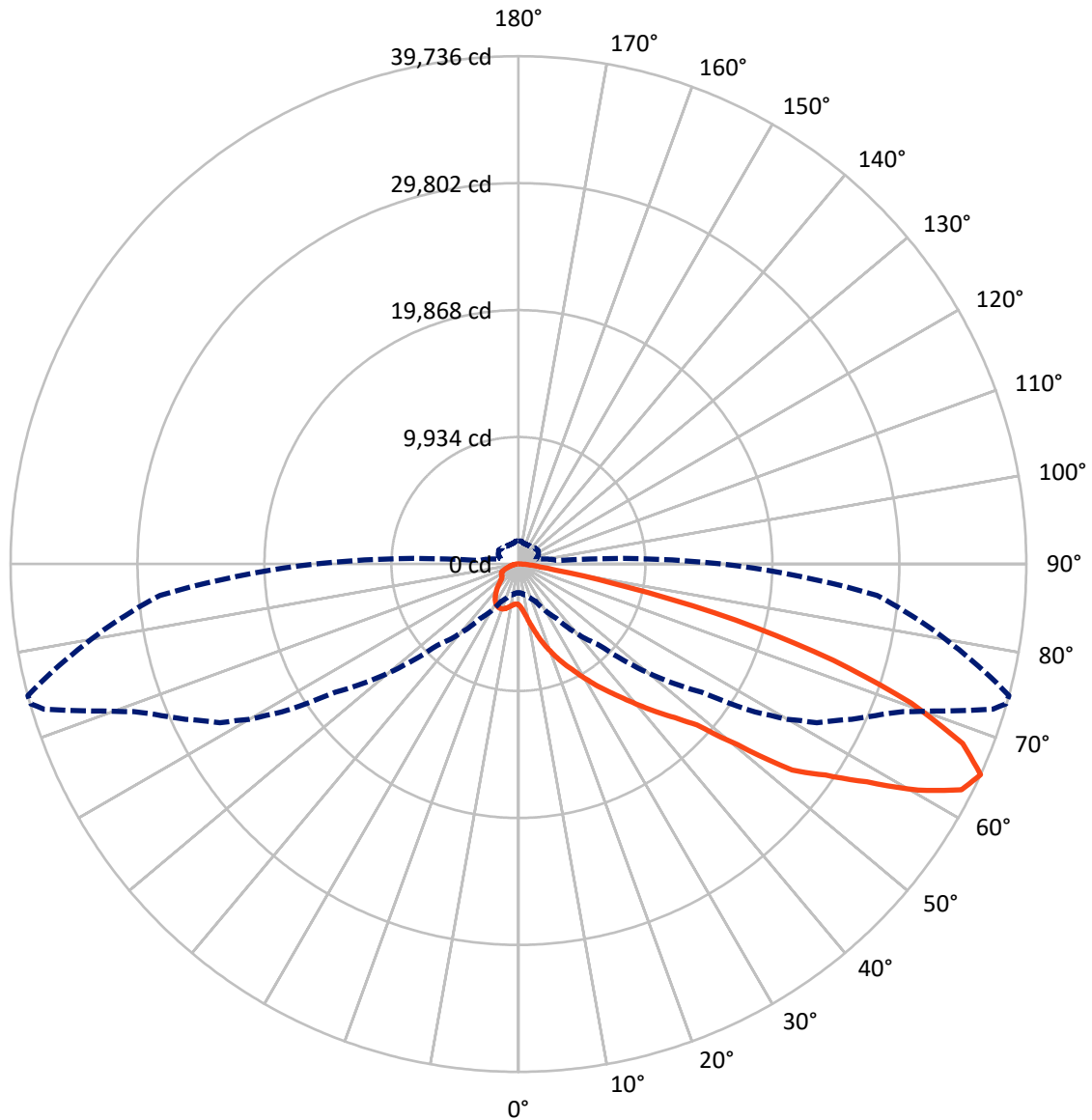
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11 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	6053.4	0.0	6053.4
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	33209.6	0.0	33209.6
	% Fixture	84.6	0.0	84.6
Total	Lumens	39263.0	0.0	39263.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	394.4	1.0
10°-20°	1541.0	3.9
20°-30°	3161.7	8.1
30°-40°	5319.3	13.5
40°-50°	7349.8	18.7
50°-60°	9174.8	23.4
60°-70°	8256.3	21.0
70°-80°	3461.0	8.8
80°-90°	604.6	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°	39263.0	100.0
0°-180°	39263.0	100.0

Coefficient of Utilization



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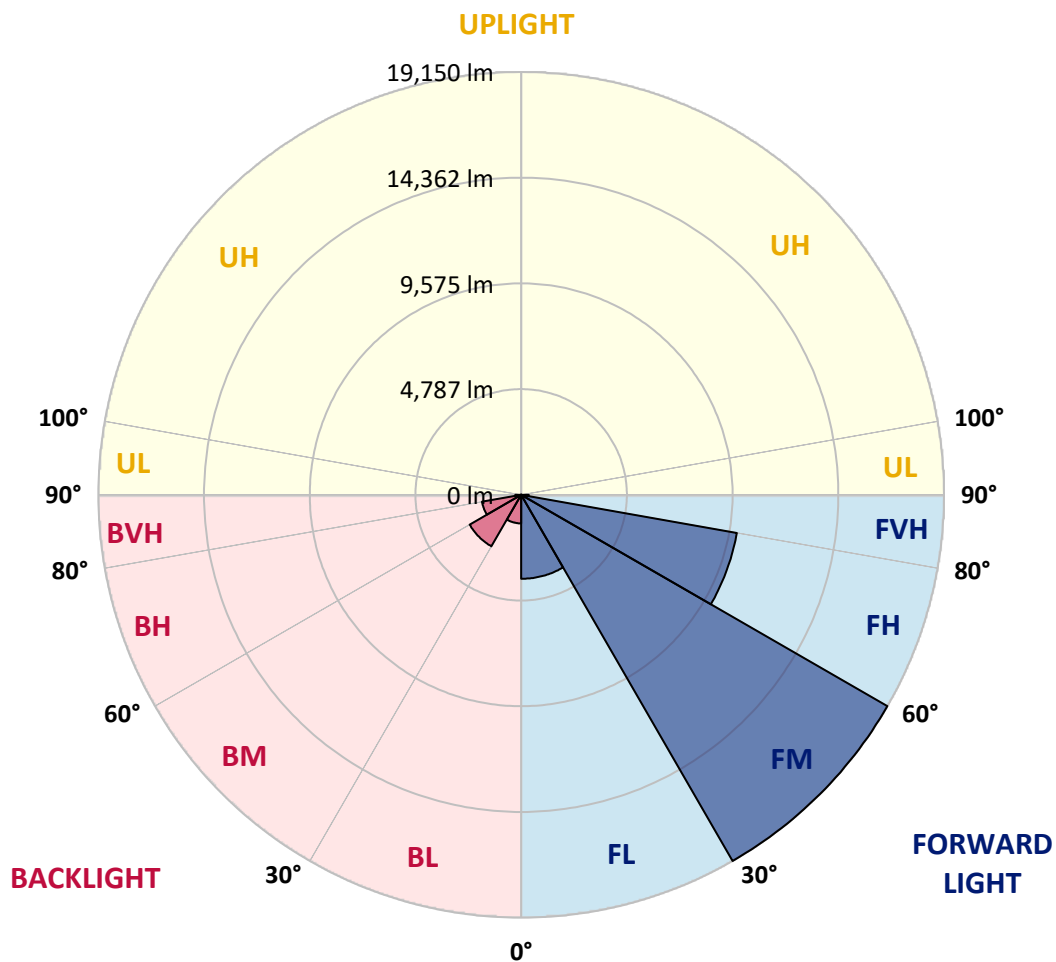
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3802.5	9.7			
FM	(30°-60°)	19149.5	48.8			
FH	(60°-80°)	9917.7	25.3			G4/12000
FVH	(80°-90°)	339.9	0.9			G3/500
BL	(0°-30°)	1294.6	3.3	B3/2500		
BM	(30°-60°)	2694.5	6.9	B3/5000		
BH	(60°-80°)	1799.6	4.6	B3/2500		G3/2500
BVH	(80°-90°)	264.8	0.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	3190.9	3190.9	3190.9	3190.9	3190.9	3190.9	3190.9	3190.9	3190.9	3190.9	3190.9
2.5°	4051.3	4006.7	4017.9	3943.5	3852.5	3733.5	3601.6	3599.7	3601.6	3588.6	3540.2
5°	5617.9	5564.0	5543.6	5376.3	5131.0	4781.7	4402.5	4361.7	4344.9	4302.2	4203.7
7.5°	6760.9	6731.1	6699.5	6573.2	6350.1	5959.9	5450.7	5363.3	5279.7	5259.3	5147.8
10°	7498.6	7491.2	7424.3	7390.8	7251.5	6913.2	6417.0	6333.4	6242.4	6210.8	6093.7
12.5°	8082.2	8080.3	8048.7	8058.0	7937.2	7691.9	7264.5	7188.3	7121.4	7024.7	6941.1
15°	8485.4	8487.3	8533.8	8585.8	8567.2	8401.8	8000.4	7967.0	7909.3	7842.4	7743.9
17.5°	8816.2	8825.5	8873.9	8968.6	9070.8	9057.8	8740.0	8712.2	8662.0	8570.9	8518.9
20°	9563.3	9598.6	9505.7	9505.7	9516.9	9567.0	9414.6	9392.3	9321.7	9273.4	9232.5
22.5°	10825.2	10866.1	10656.1	10442.3	10232.3	10080.0	9927.6	9955.4	9907.1	9873.7	9849.5
25°	12464.3	12495.9	12155.8	11795.3	11367.8	10810.3	10433.0	10416.3	10390.3	10369.9	10358.7
27.5°	14006.7	14019.8	13698.3	13170.5	12674.3	11873.3	10946.0	10925.5	10893.9	10854.9	10821.5
30°	15326.2	15322.5	14991.7	14488.1	13956.6	13070.1	11724.6	11661.4	11568.5	11462.6	11380.8
32.5°	16469.1	16463.6	16101.2	15579.0	15021.4	14255.8	12791.4	12661.3	12516.3	12310.0	12185.5
35°	17368.6	17364.9	17022.9	16478.4	15839.1	15372.7	14014.2	13854.4	13670.4	13393.5	13202.1
37.5°	17708.7	17708.7	17517.3	17145.6	16580.6	16261.0	15372.7	15179.4	14982.4	14668.3	14452.8
40°	17509.8	17513.5	17554.4	17485.7	17210.6	16965.3	16640.1	16524.9	16355.8	16073.3	15848.4
42.5°	16842.7	16863.1	17134.4	17467.1	17604.6	17565.6	17764.4	17712.4	17593.5	17376.0	17197.6
45°	15997.1	16060.3	16357.6	16985.8	17714.3	18084.1	18706.6	18712.2	18689.9	18572.8	18435.3
47.5°	14835.6	14924.8	15316.9	16166.2	17457.8	18587.7	19663.7	19713.9	19760.3	19684.2	19621.0
50°	13293.1	13399.1	13986.3	15112.5	16935.6	19109.9	21471.9	21698.7	21910.5	21884.5	21927.2
52.5°	11641.0	11765.5	12484.7	13739.1	16038.0	19230.7	22627.9	22997.7	23367.5	23670.4	23991.9
55°	10150.6	10083.7	10802.9	12124.2	14562.4	18686.2	23666.7	24112.7	24525.3	24897.0	25279.8
57.5°	8130.5	8240.1	8961.2	10267.7	12609.2	17149.3	24382.2	25034.5	25627.3	26242.4	26785.1
60°	5943.2	6052.8	6835.2	8162.1	10488.8	14818.9	23835.8	24824.5	25774.1	26716.3	27452.3
62.5°	3588.6	3670.3	4359.8	5623.5	8087.7	12055.4	21401.3	22698.5	24096.0	25222.2	26350.2
65°	2233.8	2280.3	2534.9	3229.9	5194.2	9000.2	17485.7	18899.9	20405.2	21834.3	23007.0
67.5°	1828.7	1845.4	1891.8	2040.5	2852.6	5868.8	13014.4	14266.9	15625.4	17008.1	18312.7
70°	1644.7	1633.5	1633.5	1642.8	1828.7	3155.6	8520.8	9336.6	10468.4	11670.7	12863.8
72.5°	1484.9	1473.7	1453.3	1425.4	1492.3	1925.3	4404.4	5019.5	5835.4	6903.9	8046.9
75°	1334.3	1319.5	1295.3	1260.0	1306.5	1453.3	2114.9	2373.2	2770.9	3339.5	3977.0
77.5°	1178.2	1159.6	1137.3	1111.3	1170.8	1129.9	1239.6	1332.5	1484.9	1667.0	1906.7
80°	1001.7	985.0	977.5	964.5	1035.1	860.4	875.3	932.9	1022.1	1120.6	1232.1
82.5°	784.2	784.2	814.0	819.6	897.6	618.8	654.2	704.3	750.8	802.8	854.9
85°	516.6	520.4	620.7	659.7	708.0	416.3	490.6	507.3	544.5	574.2	596.5
87.5°	161.7	174.7	379.1	420.0	407.0	236.0	301.1	308.5	334.5	355.0	373.5
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):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	3190.9	3190.9	3190.9	3190.9	3190.9	3190.9	3190.9	3190.9	3190.9	3190.9	3190.9
2.5°	3540.2	3517.9	3497.5	3495.6	3480.8	3460.3	3467.8	3436.2	3438.0	3421.3	3402.7
5°	4162.8	4147.9	4073.6	4053.2	3997.4	3962.1	3956.5	3882.2	3872.9	3830.2	3783.7
7.5°	5058.6	5010.2	4906.2	4856.0	4761.2	4690.6	4657.1	4558.7	4510.3	4398.8	4348.7
10°	5997.1	5935.7	5807.5	5736.9	5645.8	5532.5	5471.1	5328.0	5272.3	5170.1	5047.4
12.5°	6866.8	6805.5	6673.5	6619.6	6498.8	6378.0	6311.1	6149.4	6077.0	5913.4	5816.8
15°	7671.5	7610.1	7494.9	7439.2	7318.4	7219.9	7130.7	6970.9	6885.4	6733.0	6606.6
17.5°	8452.0	8387.0	8286.6	8236.4	8119.3	8019.0	7922.4	7771.8	7684.5	7532.1	7418.7
20°	9176.8	9128.5	9056.0	8989.1	8872.0	8780.9	8665.7	8535.6	8409.3	8297.7	8190.0
22.5°	9808.6	9790.0	9712.0	9682.3	9581.9	9503.8	9403.5	9275.3	9184.2	9043.0	8942.6
25°	10353.1	10347.6	10310.4	10301.1	10230.5	10156.1	10133.8	10027.9	9944.3	9819.8	9715.7
27.5°	10821.5	10827.0	10817.7	10843.8	10825.2	10791.7	10793.6	10758.3	10709.9	10605.9	10514.8
30°	11341.8	11312.1	11328.8	11366.0	11377.1	11380.8	11442.2	11462.6	11458.9	11390.1	11345.5
32.5°	12077.7	12007.1	11942.1	11936.5	11973.7	11988.5	12092.6	12146.5	12193.0	12209.7	12217.1
35°	13016.2	12875.0	12739.3	12666.8	12603.7	12620.4	12694.7	12782.1	12884.3	12954.9	13038.5
37.5°	14198.2	14025.3	13785.6	13614.6	13571.9	13479.0	13527.3	13596.0	13696.4	13806.0	13951.0
40°	15631.0	15369.0	15099.5	14872.8	14750.1	14579.1	14577.3	14564.3	14625.6	14727.8	14932.2
42.5°	17009.9	16777.6	16491.4	16253.6	16093.7	15865.1	15818.7	15697.9	15725.8	15815.0	16013.8
45°	18301.5	18110.1	17935.4	17660.4	17524.7	17277.5	17199.5	17056.4	16976.5	17017.4	17216.2
47.5°	19552.2	19429.6	19247.4	19069.0	18965.0	18743.8	18643.5	18541.2	18439.0	18435.3	18643.5
50°	21990.4	21925.4	21709.8	21524.0	21574.1	21302.8	21319.5	21044.5	21169.0	21183.9	21620.6
52.5°	24281.8	24508.6	24668.4	24863.5	24989.9	25014.0	25097.7	25222.2	25372.7	25670.1	26075.2
55°	25593.9	25878.2	26043.6	26192.3	26437.6	26489.6	26629.0	26794.4	26926.3	27260.8	27604.6
57.5°	27153.1	27680.8	27937.3	28173.3	28504.1	28630.5	28862.8	29043.0	29214.0	29609.9	30026.1
60°	28113.8	28756.9	29279.1	29652.6	30067.0	30364.4	30715.6	30998.1	31399.5	31873.4	32494.1
62.5°	27350.0	28294.1	28987.3	29628.4	30191.5	30760.2	31263.8	31791.6	32401.2	33118.5	34081.2
65°	24307.8	25268.6	26456.2	27121.5	27866.7	28743.8	29509.5	30364.4	31195.1	32239.5	33663.0
67.5°	19568.9	20685.8	22020.2	22691.0	23547.8	24527.1	25385.7	26430.1	27400.2	28665.8	30425.7
70°	14105.2	15549.2	16671.7	17372.3	18372.1	19381.2	20210.1	21425.5	22228.3	23525.5	25344.8
72.5°	8931.5	10070.7	11445.9	12328.6	13216.9	14239.0	15086.5	16134.6	16883.5	18065.5	19713.9
75°	4802.1	5642.1	6850.1	7688.2	8639.7	9513.1	10505.5	11208.0	11761.8	12696.6	14034.6
77.5°	2250.5	2761.6	3373.0	4017.9	4662.7	5335.5	5989.6	6558.3	6796.2	7331.4	8121.2
80°	1365.9	1531.3	1709.7	1908.6	2178.0	2395.5	2683.5	2891.7	2906.5	3075.6	3317.2
82.5°	912.5	973.8	1027.7	1077.9	1146.6	1200.5	1261.9	1334.3	1364.1	1403.1	1481.1
85°	622.6	652.3	663.4	695.0	687.6	706.2	730.4	754.5	767.5	765.7	801.0
87.5°	382.8	397.7	405.1	412.6	407.0	399.6	410.7	423.7	427.4	416.3	420.0
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):

	71°	72°	73°	74°	75°	85°	90°	95°	105°	115°	125°
0°	3190.9	3190.9	3190.9	3190.9	3190.9	3190.9	3190.9	3190.9	3190.9	3190.9	3190.9
2.5°	3406.4	3389.7	3373.0	3361.8	3358.1	3259.6	3216.9	3189.0	3129.5	3081.2	3042.2
5°	3757.7	3722.4	3694.5	3661.0	3642.5	3393.4	3302.4	3239.2	3135.1	3073.8	3018.0
7.5°	4322.6	4224.1	4166.5	4101.5	4045.7	3596.0	3445.5	3347.0	3202.0	3120.3	3057.1
10°	4963.8	4861.6	4770.5	4670.2	4582.8	3865.5	3646.2	3493.8	3302.4	3196.4	3112.8
12.5°	5679.3	5578.9	5463.7	5335.5	5224.0	4207.4	3902.6	3685.2	3423.2	3281.9	3164.9
15°	6524.8	6348.3	6208.9	6060.2	5930.1	4616.3	4201.8	3900.8	3551.4	3360.0	3203.9
17.5°	7310.9	7125.1	6935.5	6805.5	6654.9	5075.3	4502.9	4120.1	3657.3	3410.2	3211.3
20°	8078.5	7875.9	7712.4	7537.7	7379.7	5551.0	4824.4	4313.3	3726.1	3412.0	3164.9
22.5°	8754.9	8628.5	8446.4	8256.9	8097.0	6026.8	5125.5	4476.9	3752.1	3369.3	3083.1
25°	9524.3	9390.5	9167.5	9007.7	8829.3	6511.8	5420.9	4603.3	3737.2	3289.4	2956.7
27.5°	10345.7	10197.0	9968.4	9801.2	9585.6	7015.5	5692.3	4694.3	3681.5	3159.3	2787.6
30°	11202.4	11066.8	10841.9	10672.8	10455.3	7548.8	5995.2	4755.6	3570.0	2979.0	2590.6
32.5°	12122.3	12009.0	11786.0	11609.4	11377.1	8126.8	6277.7	4774.2	3400.9	2765.3	2382.5
35°	12995.8	12917.7	12730.0	12564.6	12323.0	8673.1	6576.9	4764.9	3200.2	2531.1	2192.9
37.5°	13978.9	13932.4	13839.5	13629.5	13334.0	9414.6	6935.5	4725.9	2954.9	2298.8	2048.0
40°	15027.0	15030.7	14930.4	14787.3	14512.2	10314.1	7363.0	4649.7	2687.2	2094.4	1916.0
42.5°	16136.5	16194.1	16145.8	16043.6	15779.7	11221.0	7874.0	4556.8	2427.1	1895.6	1785.9
45°	17407.6	17478.2	17552.6	17402.0	17145.6	12417.8	8546.8	4436.0	2146.4	1730.2	1696.7
47.5°	18873.9	18985.4	19052.3	19054.2	18797.7	13900.8	9639.5	4363.5	1897.4	1618.7	1654.0
50°	21968.1	22003.4	22161.4	22436.4	22239.5	17333.3	11548.1	4318.9	1728.3	1549.9	1622.4
52.5°	26426.4	26814.8	27088.0	27069.4	26801.8	19513.2	12599.9	4088.5	1628.0	1523.9	1607.5
55°	28242.1	28727.1	29232.6	29366.4	29158.3	21373.4	13594.2	3858.0	1579.6	1542.5	1613.1
57.5°	30661.7	31479.4	32172.6	32464.4	32163.3	23754.0	14902.5	3737.2	1564.8	1592.6	1648.4
60°	33488.3	34499.3	35409.9	35934.0	35934.0	26489.6	16259.1	3687.1	1544.3	1667.0	1707.9
62.5°	35304.0	36788.9	38164.1	38931.6	38909.3	28394.5	16861.2	3516.1	1497.9	1719.0	1789.6
65°	35311.4	37076.9	38829.4	39691.7	39736.3	28160.3	15867.0	3105.4	1412.4	1726.5	1871.4
67.5°	32367.7	34250.3	36292.7	37257.2	37480.2	25922.8	13735.4	2553.4	1273.0	1652.1	1901.1
70°	27337.0	29175.0	31260.1	32207.9	32603.7	22098.2	11063.0	1968.0	1094.6	1488.6	1839.8
72.5°	21537.0	23339.6	24791.0	25484.2	25792.7	16891.0	8056.2	1486.7	897.6	1254.4	1674.4
75°	15248.2	16601.1	17372.3	17526.6	17574.9	10182.2	4895.0	1105.7	739.6	975.7	1414.2
77.5°	8606.2	9186.1	9122.9	9191.6	8619.3	3930.5	2131.6	791.7	609.6	741.5	1096.5
80°	3360.0	3464.1	3254.1	3189.0	2925.1	1462.6	940.3	551.9	486.9	561.2	767.5
82.5°	1481.1	1529.5	1484.9	1496.0	1431.0	754.5	563.1	399.6	371.7	410.7	509.2
85°	815.8	830.7	827.0	851.1	815.8	301.1	267.6	245.3	260.2	278.8	327.1
87.5°	397.7	401.4	388.4	408.8	395.8	152.4	131.9	139.4	152.4	156.1	156.1
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):

	135°	145°	155°	165°	175°	180°
0°	3190.9	3190.9	3190.9	3190.9	3190.9	3190.9
2.5°	3014.3	2999.5	3001.3	2997.6	2990.2	2990.2
5°	2988.3	2973.4	2973.4	2969.7	2960.4	2962.3
7.5°	3014.3	2990.2	2980.9	2967.9	2954.9	2954.9
10°	3044.1	3001.3	2975.3	2953.0	2936.3	2936.3
12.5°	3066.4	2999.5	2956.7	2927.0	2910.3	2910.3
15°	3073.8	2986.4	2927.0	2891.7	2876.8	2874.9
17.5°	3049.6	2936.3	2863.8	2822.9	2804.3	2798.7
20°	2975.3	2845.2	2757.9	2711.4	2685.4	2676.1
22.5°	2863.8	2715.1	2612.9	2564.6	2531.1	2525.6
25°	2707.7	2547.9	2447.5	2401.1	2382.5	2376.9
27.5°	2525.6	2376.9	2291.4	2261.7	2244.9	2243.1
30°	2352.7	2226.4	2163.2	2140.9	2120.4	2116.7
32.5°	2191.1	2111.1	2087.0	2055.4	2007.1	2001.5
35°	2075.8	2068.4	2051.7	1981.1	1921.6	1904.9
37.5°	2005.2	2074.0	1988.5	1849.1	1806.4	1802.6
40°	1964.3	2016.4	1869.5	1821.2	1824.9	1821.2
42.5°	1871.4	1925.3	1873.3	1851.0	1865.8	1869.5
45°	1778.5	1838.0	1901.1	1886.3	1921.6	1921.6
47.5°	1726.5	1815.7	1899.3	1899.3	1951.3	1969.9
50°	1667.0	1797.1	1869.5	1895.6	1936.5	1921.6
52.5°	1663.3	1765.5	1826.8	1873.3	1891.8	1875.1
55°	1668.8	1739.5	1784.1	1836.1	1858.4	1860.3
57.5°	1676.3	1724.6	1754.3	1778.5	1845.4	1845.4
60°	1694.9	1711.6	1728.3	1741.3	1828.7	1830.5
62.5°	1724.6	1698.6	1694.9	1707.9	1819.4	1811.9
65°	1771.1	1680.0	1652.1	1665.1	1810.1	1787.8
67.5°	1834.2	1652.1	1598.2	1607.5	1802.6	1754.3
70°	1891.8	1607.5	1531.3	1522.0	1732.0	1646.5
72.5°	1897.4	1555.5	1438.4	1410.5	1505.3	1423.5
75°	1804.5	1520.2	1336.2	1254.4	1243.3	1232.1
77.5°	1626.1	1499.7	1217.3	1089.0	1066.7	1074.2
80°	1360.3	1423.5	1074.2	921.8	1042.6	1029.6
82.5°	1016.5	1256.3	912.5	815.8	814.0	719.2
85°	565.0	979.4	743.4	611.4	425.6	412.6
87.5°	158.0	544.5	520.4	345.7	236.0	245.3
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)