

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: P192216

Luminaire Tested: **GLEON-AF-08-LED-E1-T2R-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192216
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-08-LED-E1-T2R-7050
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49699 lumens
Efficiency: N/A
Efficacy: 111.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G5

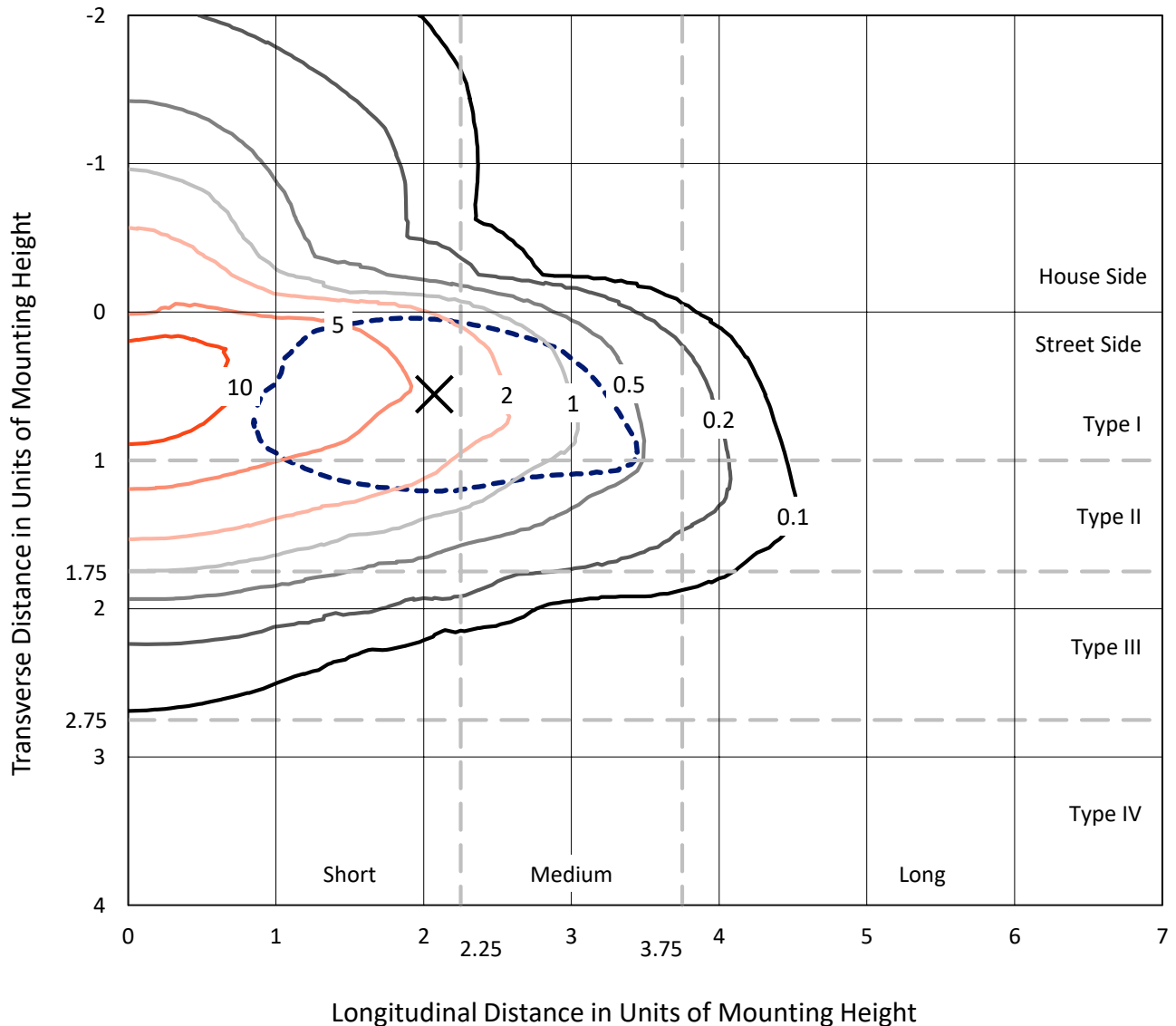
Input Watts (W): 445
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

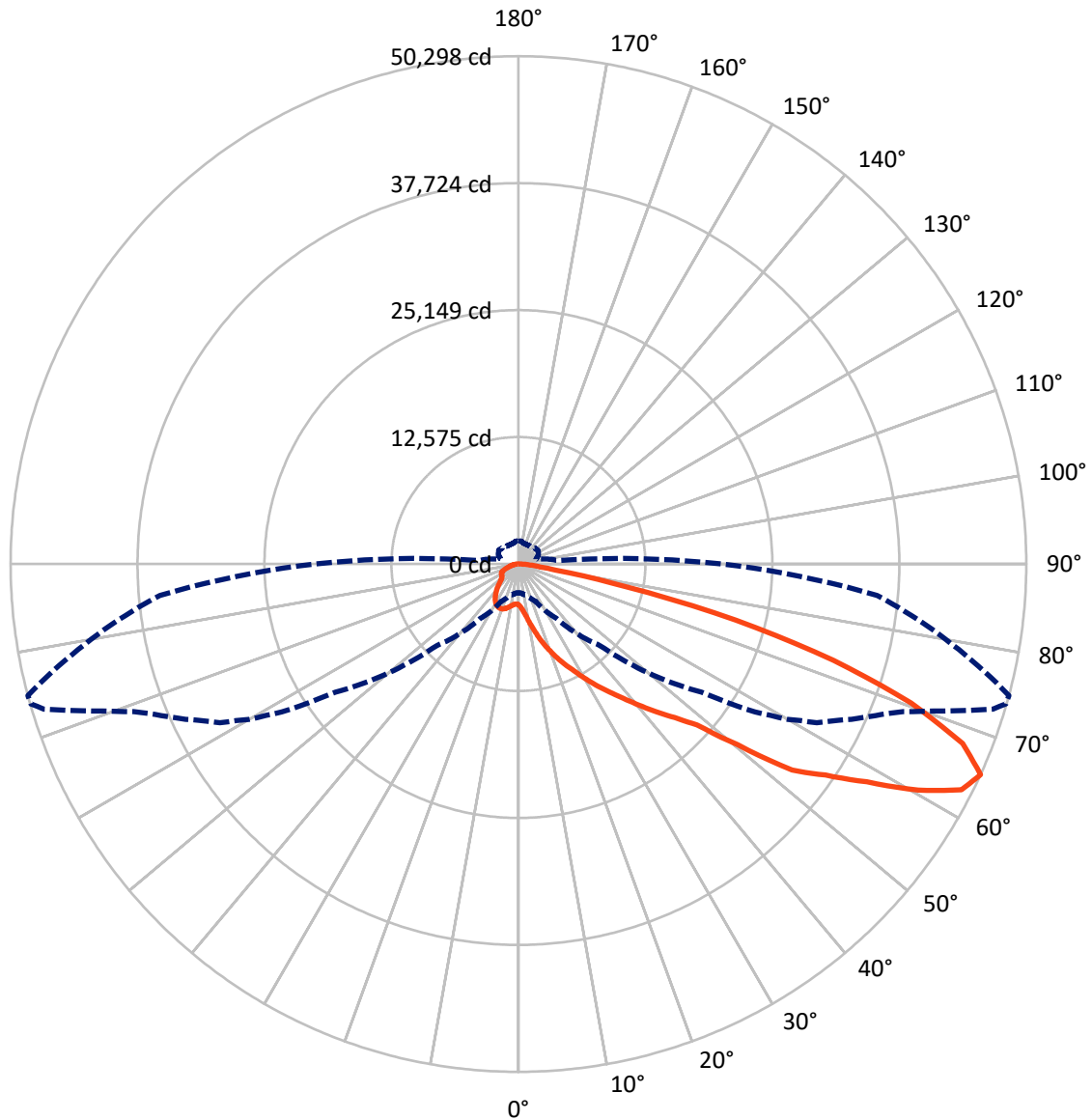
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.9 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	7662.4	0.0	7662.4
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	42036.6	0.0	42036.6
	% Fixture	84.6	0.0	84.6
Total	Lumens	49699.0	0.0	49699.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	499.2	1.0
10°-20°	1950.6	3.9
20°-30°	4002.0	8.1
30°-40°	6733.2	13.5
40°-50°	9303.4	18.7
50°-60°	11613.4	23.4
60°-70°	10450.8	21.0
70°-80°	4380.9	8.8
80°-90°	765.4	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°	49699.0	100.0
0°-180°	49699.0	100.0



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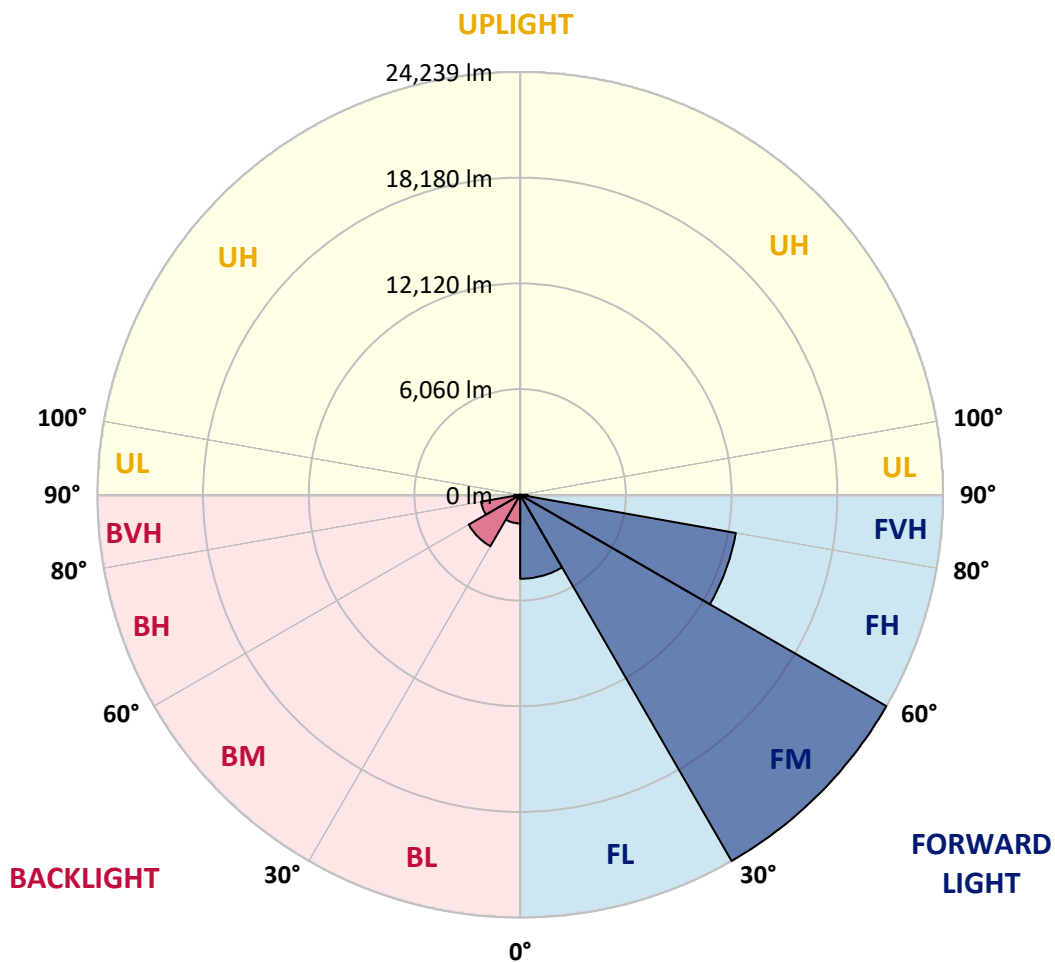
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4813.2	9.7			
FM	(30°-60°)	24239.4	48.8			
FH	(60°-80°)	12553.8	25.3			G5
FVH	(80°-90°)	430.2	0.9			G3/500
BL	(0°-30°)	1638.7	3.3	B3/2500		
BM	(30°-60°)	3410.6	6.9	B3/5000		
BH	(60°-80°)	2277.9	4.6	B3/2500		G3/2500
BVH	(80°-90°)	335.2	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-G5

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	4039.0	4039.0	4039.0	4039.0	4039.0	4039.0	4039.0	4039.0	4039.0	4039.0	4039.0
2.5°	5128.1	5071.7	5085.8	4991.7	4876.4	4725.9	4558.9	4556.5	4558.9	4542.4	4481.2
5°	7111.2	7043.0	7017.1	6805.4	6494.9	6052.6	5572.7	5521.0	5499.8	5445.7	5321.0
7.5°	8557.9	8520.2	8480.2	8320.3	8038.0	7544.0	6899.5	6788.9	6683.0	6657.2	6516.0
10°	9491.8	9482.3	9397.7	9355.3	9178.9	8750.8	8122.7	8016.8	7901.6	7861.6	7713.4
12.5°	10230.4	10228.0	10188.1	10199.8	10046.9	9736.4	9195.4	9098.9	9014.2	8891.9	8786.0
15°	10740.9	10743.2	10802.0	10867.9	10844.4	10635.0	10126.9	10084.5	10011.6	9926.9	9802.3
17.5°	11159.6	11171.3	11232.5	11352.5	11481.8	11465.4	11063.1	11027.8	10964.3	10849.1	10783.2
20°	12105.2	12149.9	12032.3	12032.3	12046.4	12109.9	11917.0	11888.8	11799.4	11738.3	11686.5
22.5°	13702.5	13754.2	13488.4	13217.9	12952.1	12759.2	12566.3	12601.6	12540.4	12498.1	12467.5
25°	15777.2	15817.2	15386.8	14930.4	14389.4	13683.7	13206.1	13185.0	13152.0	13126.1	13112.0
27.5°	17729.7	17746.2	17339.2	16671.1	16043.1	15029.2	13855.4	13829.5	13789.5	13740.1	13697.8
30°	19399.9	19395.2	18976.5	18339.0	17666.2	16544.1	14841.0	14761.0	14643.4	14509.3	14405.8
32.5°	20846.6	20839.5	20380.8	19719.8	19014.1	18044.9	16191.3	16026.6	15843.1	15582.0	15424.4
35°	21985.1	21980.4	21547.6	20858.3	20049.1	19458.7	17739.1	17536.8	17303.9	16953.4	16711.1
37.5°	22415.6	22415.6	22173.3	21702.8	20987.7	20583.1	19458.7	19214.0	18964.7	18567.1	18294.3
40°	22163.9	22168.6	22220.4	22133.3	21785.2	21474.7	21063.0	20917.1	20703.1	20345.5	20060.9
42.5°	21319.4	21345.3	21688.7	22109.8	22283.9	22234.5	22486.2	22420.3	22269.7	21994.5	21768.7
45°	20249.1	20329.1	20705.4	21500.5	22422.7	22890.8	23678.8	23685.9	23657.6	23509.4	23335.4
47.5°	18778.9	18891.8	19388.1	20463.1	22098.0	23528.3	24890.3	24953.8	25012.6	24916.1	24836.2
50°	16826.4	16960.5	17703.8	19129.4	21437.0	24189.3	27179.1	27466.1	27734.3	27701.3	27755.4
52.5°	14735.2	14892.8	15803.1	17391.0	20300.8	24342.2	28642.3	29110.4	29578.5	29962.0	30368.9
55°	12848.6	12763.9	13674.2	15346.8	18433.1	23652.9	29957.2	30521.8	31044.0	31514.5	31999.1
57.5°	10291.6	10430.3	11343.1	12996.8	15960.7	21707.5	30862.9	31688.6	32439.0	33217.6	33904.5
60°	7522.8	7661.6	8652.0	10331.5	13276.7	18757.7	30171.3	31422.8	32624.8	33817.5	34749.0
62.5°	4542.4	4645.9	5518.6	7118.2	10237.5	15259.7	27089.7	28731.7	30500.6	31926.2	33354.0
65°	2827.5	2886.3	3208.6	4088.4	6574.8	11392.5	22133.3	23923.5	25828.9	27637.8	29122.2
67.5°	2314.7	2335.9	2394.7	2582.9	3610.9	7428.7	16473.5	18059.0	19778.6	21528.8	23180.1
70°	2081.8	2067.7	2067.7	2079.5	2314.7	3994.3	10785.6	11818.2	13250.8	14772.8	16283.0
72.5°	1879.5	1865.4	1839.5	1804.3	1888.9	2437.0	5575.1	6353.7	7386.4	8739.0	10185.7
75°	1689.0	1670.2	1639.6	1594.9	1653.7	1839.5	2677.0	3004.0	3507.4	4227.2	5034.0
77.5°	1491.4	1467.9	1439.6	1406.7	1482.0	1430.2	1569.0	1686.6	1879.5	2110.1	2413.5
80°	1267.9	1246.7	1237.3	1220.9	1310.3	1089.1	1108.0	1180.9	1293.8	1418.5	1559.6
82.5°	992.7	992.7	1030.3	1037.4	1136.2	783.3	828.0	891.5	950.4	1016.2	1082.1
85°	654.0	658.7	785.7	835.1	896.2	526.9	621.0	642.2	689.2	726.9	755.1
87.5°	204.7	221.1	479.9	531.6	515.2	298.7	381.1	390.5	423.4	449.3	472.8
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):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	4039.0	4039.0	4039.0	4039.0	4039.0	4039.0	4039.0	4039.0	4039.0	4039.0	4039.0
2.5°	4481.2	4453.0	4427.1	4424.8	4406.0	4380.1	4389.5	4349.5	4351.9	4330.7	4307.2
5°	5269.3	5250.5	5156.4	5130.5	5059.9	5015.2	5008.2	4914.1	4902.3	4848.2	4789.4
7.5°	6403.1	6342.0	6210.2	6146.7	6026.7	5937.3	5895.0	5770.3	5709.2	5568.0	5504.5
10°	7591.1	7513.4	7351.1	7261.7	7146.5	7003.0	6925.3	6744.2	6673.6	6544.3	6389.0
12.5°	8692.0	8614.3	8447.3	8379.1	8226.2	8073.3	7988.6	7783.9	7692.2	7485.2	7362.9
15°	9710.5	9632.9	9487.0	9416.5	9263.6	9138.9	9026.0	8823.7	8715.5	8522.6	8362.6
17.5°	10698.5	10616.2	10489.2	10425.6	10277.4	10150.4	10028.1	9837.6	9727.0	9534.1	9390.6
20°	11615.9	11554.8	11463.0	11378.3	11230.1	11114.9	10969.0	10804.4	10644.4	10503.3	10366.8
22.5°	12415.7	12392.2	12293.4	12255.8	12128.7	12029.9	11902.9	11740.6	11625.3	11446.6	11319.5
25°	13105.0	13097.9	13050.9	13039.1	12949.7	12855.6	12827.4	12693.3	12587.5	12429.8	12298.1
27.5°	13697.8	13704.8	13693.1	13726.0	13702.5	13660.1	13662.5	13617.8	13556.6	13424.9	13309.6
30°	14356.4	14318.8	14340.0	14387.0	14401.1	14405.8	14483.5	14509.3	14504.6	14417.6	14361.1
32.5°	15288.0	15198.6	15116.2	15109.2	15156.2	15175.0	15306.8	15375.0	15433.8	15455.0	15464.4
35°	16475.9	16297.1	16125.4	16033.7	15953.7	15974.8	16068.9	16179.5	16308.9	16398.3	16504.1
37.5°	17972.0	17753.2	17449.8	17233.4	17179.3	17061.6	17122.8	17209.8	17336.9	17475.6	17659.1
40°	19785.7	19454.0	19112.9	18825.9	18670.6	18454.2	18451.9	18435.4	18513.0	18642.4	18901.2
42.5°	21531.1	21237.1	20874.8	20573.7	20371.4	20082.1	20023.3	19870.3	19905.6	20018.5	20270.2
45°	23166.0	22923.7	22702.6	22354.4	22182.7	21869.8	21771.1	21589.9	21488.8	21540.5	21792.2
47.5°	24749.1	24593.9	24363.3	24137.5	24005.8	23725.9	23598.8	23469.5	23340.1	23335.4	23598.8
50°	27835.4	27753.1	27480.2	27245.0	27308.5	26965.1	26986.2	26638.1	26795.7	26814.5	27367.3
52.5°	30735.9	31022.9	31225.2	31472.2	31632.1	31662.7	31768.6	31926.2	32116.7	32493.1	33005.9
55°	32396.6	32756.6	32965.9	33154.1	33464.6	33530.5	33706.9	33916.3	34083.3	34506.7	34941.9
57.5°	34370.3	35038.3	35363.0	35661.7	36080.4	36240.4	36534.4	36762.6	36979.0	37480.1	38007.0
60°	35586.4	36400.3	37061.4	37534.2	38058.8	38435.1	38879.7	39237.3	39745.4	40345.2	41130.9
62.5°	34619.6	35814.6	36692.0	37503.6	38216.4	38936.2	39573.7	40241.7	41013.3	41921.3	43139.8
65°	30768.8	31985.0	33488.1	34330.3	35273.6	36383.9	37353.1	38435.1	39486.6	40808.7	42610.6
67.5°	24770.3	26184.1	27873.1	28722.3	29806.7	31046.4	32133.2	33455.2	34683.1	36285.1	38512.8
70°	17854.4	19682.2	21103.0	21989.8	23255.4	24532.7	25581.9	27120.3	28136.5	29778.5	32081.4
72.5°	11305.4	12747.4	14488.2	15605.5	16730.0	18023.7	19096.4	20423.2	21371.1	22867.2	24953.8
75°	6078.5	7141.8	8670.8	9731.7	10936.1	12041.7	13297.9	14187.1	14888.1	16071.3	17765.0
77.5°	2848.7	3495.6	4269.5	5085.8	5902.1	6753.6	7581.6	8301.5	8602.6	9280.0	10279.8
80°	1729.0	1938.3	2164.2	2415.9	2757.0	3032.2	3396.8	3660.3	3679.1	3893.1	4199.0
82.5°	1155.0	1232.6	1300.9	1364.4	1451.4	1519.6	1597.2	1689.0	1726.6	1776.0	1874.8
85°	788.0	825.7	839.8	879.8	870.4	893.9	924.5	955.1	971.5	969.2	1013.9
87.5°	484.6	503.4	512.8	522.2	515.2	505.8	519.9	536.3	541.0	526.9	531.6
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°	4039.0	4039.0	4039.0	4039.0	4039.0	4039.0	4039.0	4039.0	4039.0	4039.0	4039.0
2.5°	4311.9	4290.7	4269.5	4255.4	4250.7	4126.0	4071.9	4036.6	3961.4	3900.2	3850.8
5°	4756.5	4711.8	4676.5	4634.1	4610.6	4295.4	4180.1	4100.2	3968.4	3890.8	3820.2
7.5°	5471.6	5346.9	5274.0	5191.6	5121.1	4551.8	4361.3	4236.6	4053.1	3949.6	3869.6
10°	6283.1	6153.8	6038.5	5911.5	5800.9	4892.9	4615.3	4422.4	4180.1	4046.1	3940.2
12.5°	7188.8	7061.8	6915.9	6753.6	6612.5	5325.7	4939.9	4664.7	4333.0	4154.3	4006.1
15°	8259.1	8035.6	7859.2	7671.0	7506.4	5843.3	5318.7	4937.6	4495.4	4253.1	4055.5
17.5°	9254.2	9018.9	8779.0	8614.3	8423.8	6424.3	5699.8	5215.2	4629.4	4316.6	4064.9
20°	10225.7	9969.3	9762.3	9541.2	9341.2	7026.5	6106.7	5459.8	4716.5	4318.9	4006.1
22.5°	11081.9	10922.0	10691.5	10451.5	10249.2	7628.7	6487.8	5666.8	4749.4	4264.8	3902.6
25°	12055.8	11886.5	11604.2	11401.9	11176.0	8242.7	6861.8	5826.8	4730.6	4163.7	3742.6
27.5°	13095.6	12907.4	12618.0	12406.3	12133.4	8880.1	7205.3	5942.1	4660.0	3999.0	3528.5
30°	14180.0	14008.3	13723.6	13509.6	13234.4	9555.3	7588.7	6019.7	4518.9	3770.8	3279.2
32.5°	15344.4	15200.9	14918.6	14695.2	14401.1	10286.9	7946.3	6043.2	4304.8	3500.3	3015.7
35°	16450.0	16351.2	16113.6	15904.3	15598.5	10978.4	8325.0	6031.4	4050.8	3203.9	2775.8
37.5°	17694.4	17635.6	17518.0	17252.2	16878.2	11917.0	8779.0	5982.0	3740.2	2909.9	2592.3
40°	19021.1	19025.9	18898.8	18717.7	18369.5	13055.6	9320.0	5885.6	3401.5	2651.1	2425.3
42.5°	20425.5	20498.4	20437.3	20307.9	19973.9	14203.5	9966.9	5768.0	3072.2	2399.4	2260.6
45°	22034.5	22123.9	22218.0	22027.5	21702.8	15718.4	10818.5	5615.1	2717.0	2190.0	2147.7
47.5°	23890.5	24031.7	24116.3	24118.7	23794.1	17595.6	12201.7	5523.3	2401.8	2048.9	2093.6
50°	27807.2	27851.9	28051.8	28400.0	28150.6	21940.4	14617.5	5466.9	2187.7	1961.9	2053.6
52.5°	33450.5	33942.1	34287.9	34264.4	33925.7	24699.7	15949.0	5175.2	2060.7	1928.9	2034.8
55°	35748.7	36362.7	37002.6	37171.9	36908.5	27054.4	17207.5	4883.5	1999.5	1952.5	2041.8
57.5°	38811.5	39846.6	40724.0	41093.3	40712.2	30067.8	18863.5	4730.6	1980.7	2016.0	2086.5
60°	42389.4	43669.1	44821.8	45485.1	45485.1	33530.5	20580.8	4667.1	1954.8	2110.1	2161.8
62.5°	44687.7	46567.2	48308.0	49279.5	49251.3	35941.6	21342.9	4450.7	1896.0	2175.9	2265.3
65°	44697.1	46931.8	49150.1	50241.6	50298.1	35645.2	20084.4	3930.8	1787.8	2185.3	2368.8
67.5°	40971.0	43353.9	45939.2	47160.0	47442.3	32813.0	17386.3	3232.1	1611.4	2091.2	2406.5
70°	34603.1	36929.6	39569.0	40768.7	41269.7	27971.9	14003.6	2491.1	1385.5	1884.2	2328.8
72.5°	27261.4	29543.2	31380.4	32257.9	32648.3	21380.6	10197.5	1881.9	1136.2	1587.8	2119.5
75°	19301.1	21013.6	21989.8	22185.1	22246.2	12888.6	6196.1	1399.7	936.2	1235.0	1790.1
77.5°	10893.8	11627.7	11547.7	11634.8	10910.2	4975.2	2698.2	1002.1	771.6	938.6	1387.9
80°	4253.1	4384.8	4119.0	4036.6	3702.6	1851.3	1190.3	698.6	616.3	710.4	971.5
82.5°	1874.8	1936.0	1879.5	1893.6	1811.3	955.1	712.8	505.8	470.5	519.9	644.5
85°	1032.7	1051.5	1046.8	1077.4	1032.7	381.1	338.7	310.5	329.3	352.9	414.0
87.5°	503.4	508.1	491.6	517.5	501.1	192.9	167.0	176.4	192.9	197.6	197.6
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°	4039.0	4039.0	4039.0	4039.0	4039.0	4039.0
2.5°	3815.5	3796.7	3799.1	3794.3	3784.9	3784.9
5°	3782.6	3763.8	3763.8	3759.1	3747.3	3749.7
7.5°	3815.5	3784.9	3773.2	3756.7	3740.2	3740.2
10°	3853.2	3799.1	3766.1	3737.9	3716.7	3716.7
12.5°	3881.4	3796.7	3742.6	3705.0	3683.8	3683.8
15°	3890.8	3780.2	3705.0	3660.3	3641.4	3639.1
17.5°	3860.2	3716.7	3625.0	3573.2	3549.7	3542.6
20°	3766.1	3601.5	3490.9	3432.1	3399.2	3387.4
22.5°	3625.0	3436.8	3307.4	3246.3	3203.9	3196.9
25°	3427.4	3225.1	3098.1	3039.2	3015.7	3008.7
27.5°	3196.9	3008.7	2900.5	2862.8	2841.6	2839.3
30°	2978.1	2818.1	2738.1	2709.9	2684.0	2679.3
32.5°	2773.4	2672.3	2641.7	2601.7	2540.5	2533.5
35°	2627.6	2618.2	2597.0	2507.6	2432.3	2411.2
37.5°	2538.2	2625.2	2517.0	2340.6	2286.5	2281.8
40°	2486.4	2552.3	2366.5	2305.3	2310.0	2305.3
42.5°	2368.8	2437.0	2371.2	2342.9	2361.8	2366.5
45°	2251.2	2326.5	2406.5	2387.6	2432.3	2432.3
47.5°	2185.3	2298.3	2404.1	2404.1	2470.0	2493.5
50°	2110.1	2274.7	2366.5	2399.4	2451.2	2432.3
52.5°	2105.4	2234.7	2312.4	2371.2	2394.7	2373.5
55°	2112.4	2201.8	2258.3	2324.1	2352.4	2354.7
57.5°	2121.8	2183.0	2220.6	2251.2	2335.9	2335.9
60°	2145.3	2166.5	2187.7	2204.2	2314.7	2317.1
62.5°	2183.0	2150.1	2145.3	2161.8	2303.0	2293.5
65°	2241.8	2126.5	2091.2	2107.7	2291.2	2263.0
67.5°	2321.8	2091.2	2023.0	2034.8	2281.8	2220.6
70°	2394.7	2034.8	1938.3	1926.6	2192.4	2084.2
72.5°	2401.8	1968.9	1820.7	1785.4	1905.4	1801.9
75°	2284.1	1924.2	1691.3	1587.8	1573.7	1559.6
77.5°	2058.3	1898.4	1540.8	1378.5	1350.3	1359.7
80°	1721.9	1801.9	1359.7	1166.8	1319.7	1303.2
82.5°	1286.7	1590.2	1155.0	1032.7	1030.3	910.4
85°	715.1	1239.7	940.9	773.9	538.7	522.2
87.5°	200.0	689.2	658.7	437.5	298.7	310.5
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)