

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: P191414

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191414
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
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 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: 37941.2 lumens
Efficiency: N/A
Efficacy: 113.9 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 - G4

Input Watts (W): 333
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

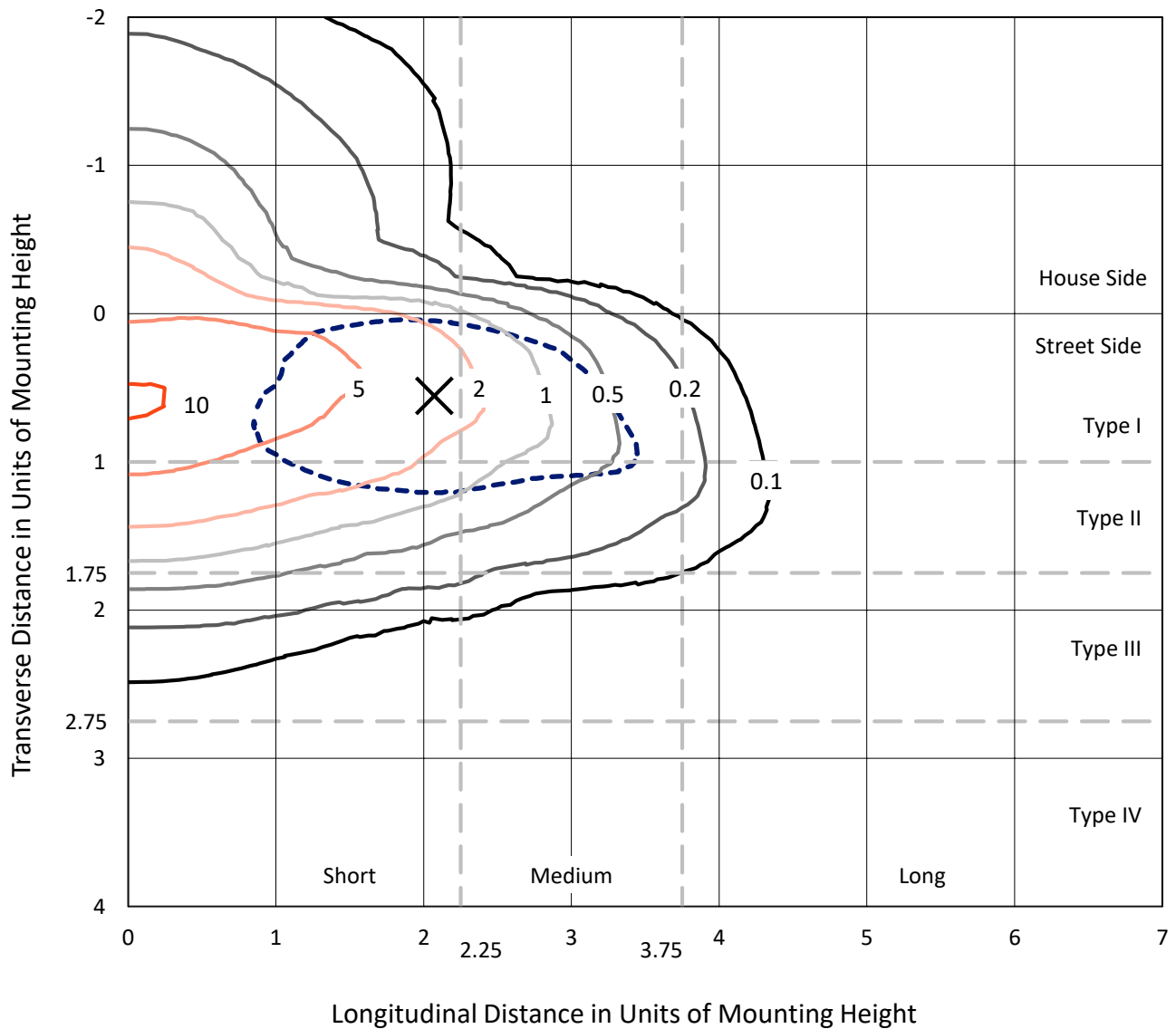


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

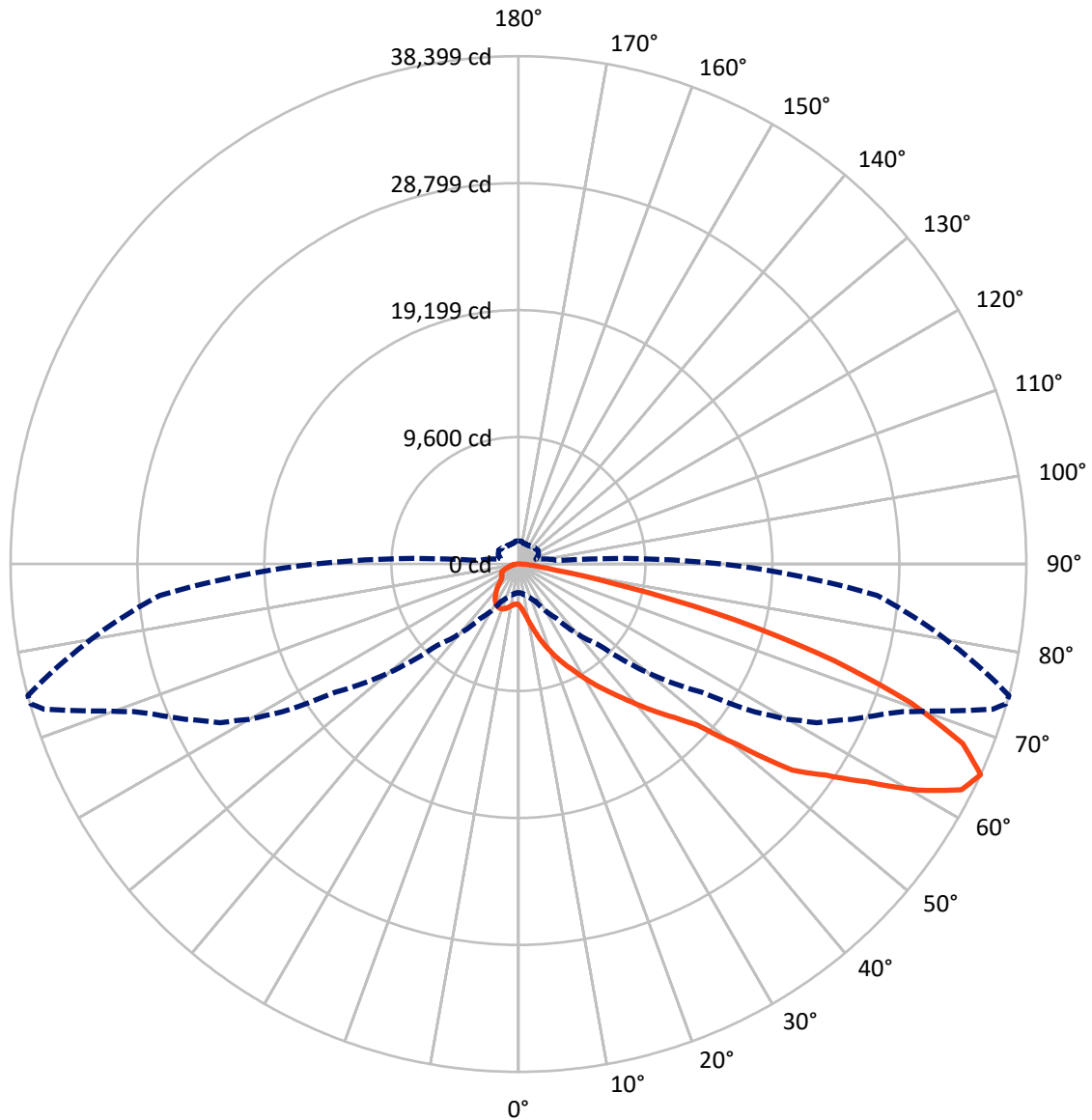


Based on 30 foot mounting height. Maximum calculated value = 10.6 fc
 Type II - Short - Full Cutoff

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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	5849.6	0.0	5849.6
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	32091.6	0.0	32091.6
	% Fixture	84.6	0.0	84.6
Total	Lumens	37941.2	0.0	37941.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	381.1	1.0
10°-20°	1489.1	3.9
20°-30°	3055.2	8.1
30°-40°	5140.3	13.5
40°-50°	7102.4	18.7
50°-60°	8865.9	23.4
60°-70°	7978.4	21.0
70°-80°	3344.5	8.8
80°-90°	584.3	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°	37941.2	100.0
0°-180°	37941.2	100.0

Coefficient of Utilization



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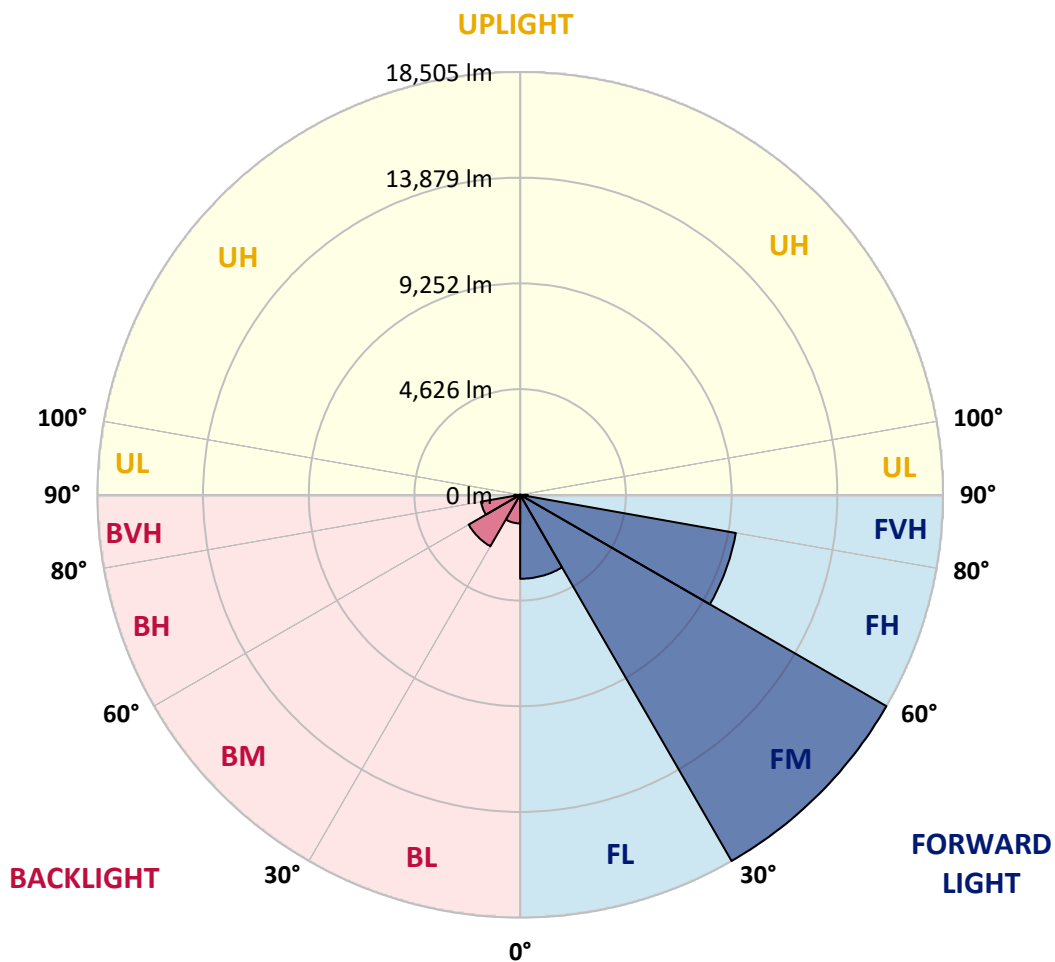
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3674.5	9.7			
FM (30°-60°)	18504.9	48.8			
FH (60°-80°)	9583.8	25.3			G4/12000
FVH (80°-90°)	328.4	0.9			G3/500
BL (0°-30°)	1251.0	3.3	B3/2500		
BM (30°-60°)	2603.7	6.9	B3/5000		
BH (60°-80°)	1739.0	4.6	B3/2500		G3/2500
BVH (80°-90°)	255.9	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°	3083.5	3083.5	3083.5	3083.5	3083.5	3083.5	3083.5	3083.5	3083.5	3083.5	3083.5
2.5°	3914.9	3871.9	3882.6	3810.8	3722.7	3607.8	3480.3	3478.5	3480.3	3467.8	3421.1
5°	5428.8	5376.7	5357.0	5195.4	4958.3	4620.7	4254.4	4214.9	4198.7	4157.4	4062.1
7.5°	6533.3	6504.5	6473.9	6351.9	6136.4	5759.2	5267.2	5182.8	5102.0	5082.2	4974.5
10°	7246.2	7239.0	7174.4	7142.0	7007.3	6680.5	6201.0	6120.2	6032.2	6001.7	5888.5
12.5°	7810.1	7808.3	7777.8	7786.7	7670.0	7433.0	7019.9	6946.3	6881.7	6788.3	6707.5
15°	8199.8	8201.6	8246.5	8296.7	8278.8	8119.0	7731.1	7698.7	7643.1	7578.4	7483.3
17.5°	8519.4	8528.4	8575.1	8666.7	8765.5	8752.9	8445.8	8418.9	8370.4	8282.4	8232.1
20°	9241.3	9275.5	9185.7	9185.7	9196.4	9244.9	9097.7	9076.1	9007.9	8961.3	8921.8
22.5°	10460.8	10500.3	10297.3	10090.8	9887.8	9740.6	9593.3	9620.3	9573.6	9541.3	9517.9
25°	12044.6	12075.2	11746.5	11398.1	10985.2	10446.4	10081.8	10065.6	10040.6	10020.7	10010.0
27.5°	13535.2	13547.8	13237.1	12727.1	12247.6	11473.6	10577.5	10557.8	10527.2	10489.4	10457.1
30°	14810.3	14806.7	14487.0	14000.3	13486.7	12630.2	11329.9	11268.8	11179.1	11076.7	10997.7
32.5°	15914.7	15909.3	15559.1	15054.5	14515.8	13775.9	12360.7	12235.0	12095.0	11895.6	11775.3
35°	16783.9	16780.3	16449.9	15923.7	15305.9	14855.2	13542.4	13388.0	13210.2	12942.6	12757.6
37.5°	17112.5	17112.5	16927.6	16568.4	16022.5	15713.5	14855.2	14668.4	14478.0	14174.5	13966.2
40°	16920.4	16924.0	16963.5	16897.0	16631.2	16394.2	16080.0	15968.6	15805.2	15532.2	15314.9
42.5°	16275.7	16295.4	16557.6	16879.1	17012.0	16974.2	17166.4	17116.1	17001.2	16791.1	16618.7
45°	15458.5	15519.6	15806.9	16414.0	17118.0	17475.3	18076.9	18082.3	18060.7	17947.6	17814.7
47.5°	14336.1	14422.4	14801.3	15622.0	16870.1	17962.0	19001.7	19050.2	19095.1	19021.5	18960.5
50°	12845.6	12948.0	13515.4	14603.7	16365.5	18466.6	20749.1	20968.2	21172.9	21147.8	21189.1
52.5°	11249.1	11369.5	12064.5	13276.6	15498.1	18583.3	21866.1	22223.5	22580.8	22873.6	23184.3
55°	9808.9	9744.2	10439.2	11716.1	14072.2	18057.1	22870.0	23301.0	23699.6	24058.8	24428.8
57.5°	7856.8	7962.8	8659.5	9922.0	12184.8	16572.0	23561.4	24191.8	24764.6	25359.1	25883.4
60°	5743.1	5849.0	6605.1	7887.4	10135.7	14320.0	23033.4	23988.8	24906.5	25816.9	26528.1
62.5°	3467.8	3546.8	4213.0	5434.2	7815.4	11649.6	20680.9	21934.3	23284.8	24373.1	25463.2
65°	2158.6	2203.5	2449.6	3121.1	5019.4	8697.2	16897.0	18263.7	19718.3	21099.3	22232.5
67.5°	1767.1	1783.3	1828.1	1971.8	2756.6	5671.2	12576.3	13786.6	15099.4	16435.5	17696.1
70°	1589.4	1578.5	1578.5	1587.5	1767.1	3049.3	8233.9	9022.3	10116.0	11277.8	12430.8
72.5°	1434.9	1424.0	1404.3	1377.4	1442.1	1860.4	4256.1	4850.5	5638.9	6671.6	7776.0
75°	1289.4	1275.0	1251.7	1217.6	1262.4	1404.3	2043.7	2293.3	2677.6	3227.1	3843.1
77.5°	1138.5	1120.6	1099.1	1073.9	1131.4	1091.9	1197.8	1287.6	1434.9	1610.8	1842.5
80°	967.9	951.8	944.6	932.0	1000.2	831.5	845.9	901.5	987.8	1082.9	1190.6
82.5°	757.8	757.8	786.5	792.0	867.4	598.0	632.2	680.7	725.5	775.8	826.1
85°	499.2	502.9	599.9	637.5	684.3	402.2	474.1	490.3	526.2	555.0	576.4
87.5°	156.2	168.8	366.3	405.9	393.3	228.1	290.9	298.1	323.3	343.0	361.0
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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CATALOG NUMBER: GLEON-AF-06-LED-E1-T2R

CANDELA DISTRIBUTION (continued):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	3083.5	3083.5	3083.5	3083.5	3083.5	3083.5	3083.5	3083.5	3083.5	3083.5	3083.5
2.5°	3421.1	3399.5	3379.7	3378.0	3363.6	3343.8	3351.0	3320.5	3322.3	3306.2	3288.2
5°	4022.7	4008.3	3936.5	3916.7	3862.9	3828.7	3823.4	3751.5	3742.6	3701.2	3656.3
7.5°	4888.3	4841.6	4741.0	4692.5	4600.9	4532.7	4500.4	4405.2	4358.5	4250.8	4202.3
10°	5795.1	5735.9	5612.0	5543.8	5455.7	5346.2	5286.9	5148.6	5094.8	4996.0	4877.5
12.5°	6635.6	6576.3	6448.9	6396.8	6280.0	6163.3	6098.6	5942.4	5872.4	5714.3	5621.0
15°	7413.2	7354.0	7242.6	7188.7	7072.0	6976.8	6890.6	6736.2	6653.6	6506.3	6384.2
17.5°	8167.4	8104.6	8007.7	7959.2	7846.0	7749.1	7655.7	7510.2	7425.8	7278.5	7168.9
20°	8867.9	8821.1	8751.1	8686.5	8573.4	8485.4	8374.0	8248.3	8126.1	8018.4	7914.3
22.5°	9478.5	9460.5	9385.1	9356.3	9259.3	9184.0	9087.0	8963.0	8875.0	8738.6	8641.6
25°	10004.6	9999.2	9963.3	9954.3	9886.1	9814.3	9792.7	9690.3	9609.5	9489.2	9388.6
27.5°	10457.1	10462.5	10453.5	10478.7	10460.8	10428.5	10430.2	10396.1	10349.4	10248.8	10160.9
30°	10960.0	10931.3	10947.4	10983.3	10994.2	10997.7	11057.0	11076.7	11073.1	11006.6	10963.6
32.5°	11671.2	11602.9	11540.0	11534.7	11570.6	11584.9	11685.5	11737.5	11782.4	11798.6	11805.9
35°	12578.0	12441.5	12310.5	12240.4	12179.4	12195.5	12267.3	12351.7	12450.5	12518.8	12599.6
37.5°	13720.2	13553.2	13321.5	13156.3	13115.0	13025.2	13071.9	13138.4	13235.3	13341.2	13481.4
40°	15104.8	14851.6	14591.2	14372.0	14253.6	14088.4	14086.5	14074.0	14133.2	14232.0	14429.5
42.5°	16437.3	16212.8	15936.2	15706.4	15551.9	15331.1	15286.2	15169.4	15196.3	15282.6	15474.7
45°	17685.4	17500.4	17331.7	17065.9	16934.7	16695.9	16620.5	16482.2	16405.0	16444.4	16636.7
47.5°	18894.0	18775.4	18599.5	18427.1	18326.5	18112.8	18015.8	17917.1	17818.3	17814.7	18015.8
50°	21250.2	21187.3	20979.0	20799.4	20847.8	20585.7	20601.8	20336.1	20456.4	20470.8	20892.7
52.5°	23464.4	23683.5	23837.9	24026.5	24148.6	24171.9	24252.7	24373.1	24518.6	24805.9	25197.4
55°	24732.3	25007.1	25166.8	25310.6	25547.6	25597.8	25732.5	25892.4	26019.9	26343.1	26675.4
57.5°	26239.0	26749.0	26996.8	27224.9	27544.6	27666.6	27891.2	28065.4	28230.6	28613.1	29015.4
60°	27167.4	27788.8	28293.4	28654.4	29054.9	29342.2	29681.6	29954.6	30342.5	30800.4	31400.2
62.5°	26429.4	27341.6	28011.5	28631.1	29175.2	29724.7	30211.3	30721.4	31310.4	32003.6	32933.9
65°	23489.5	24418.0	25565.5	26208.4	26928.6	27776.2	28516.1	29342.2	30144.9	31154.2	32529.8
67.5°	18910.2	19989.5	21278.9	21927.2	22755.0	23701.5	24531.2	25540.4	26477.9	27700.8	29401.4
70°	13630.4	15025.8	16110.5	16787.4	17753.6	18728.8	19529.8	20704.2	21480.0	22733.5	24491.6
72.5°	8630.8	9731.6	11060.6	11913.6	12772.0	13759.7	14578.6	15591.4	16315.1	17457.4	19050.2
75°	4640.4	5452.1	6619.4	7429.4	8348.8	9192.8	10151.9	10830.7	11365.8	12269.2	13562.2
77.5°	2174.8	2668.6	3259.4	3882.6	4505.8	5155.9	5788.0	6337.5	6567.3	7084.5	7847.8
80°	1319.9	1479.8	1652.2	1844.3	2104.7	2314.8	2593.2	2794.3	2808.7	2972.1	3205.5
82.5°	881.8	941.0	993.1	1041.6	1108.1	1160.1	1219.4	1289.4	1318.2	1355.8	1431.3
85°	601.6	630.3	641.1	671.7	664.5	682.4	705.7	729.2	741.6	739.9	774.0
87.5°	369.9	384.3	391.5	398.6	393.3	386.1	396.9	409.5	413.1	402.2	405.9
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°	3083.5	3083.5	3083.5	3083.5	3083.5	3083.5	3083.5	3083.5	3083.5	3083.5	3083.5
2.5°	3291.8	3275.6	3259.4	3248.7	3245.1	3149.9	3108.5	3081.6	3024.1	2977.5	2939.8
5°	3631.2	3597.1	3570.1	3537.8	3519.9	3279.2	3191.2	3130.1	3029.6	2970.3	2916.4
7.5°	4177.1	4082.0	4026.2	3963.4	3909.5	3475.0	3329.5	3234.3	3094.2	3015.2	2954.2
10°	4796.7	4697.9	4609.9	4513.0	4428.6	3735.3	3523.5	3376.1	3191.2	3088.8	3008.0
12.5°	5488.0	5391.1	5279.8	5155.9	5048.1	4065.8	3771.2	3561.1	3307.9	3171.5	3058.3
15°	6305.2	6134.5	5999.9	5856.2	5730.5	4460.9	4060.4	3769.5	3431.8	3246.8	3096.1
17.5°	7064.8	6885.3	6702.1	6576.3	6430.9	4904.4	4351.3	3981.3	3534.2	3295.3	3103.2
20°	7806.5	7610.8	7452.7	7283.9	7131.3	5364.1	4662.0	4168.1	3600.7	3297.2	3058.3
22.5°	8460.2	8338.1	8162.1	7978.9	7824.4	5823.9	4952.9	4326.2	3625.7	3255.8	2979.3
25°	9203.7	9074.4	8858.9	8704.4	8532.0	6292.6	5238.4	4448.3	3611.4	3178.6	2857.2
27.5°	9997.4	9853.8	9632.8	9471.2	9262.9	6779.3	5500.6	4536.3	3557.5	3052.9	2693.7
30°	10825.3	10694.2	10477.0	10313.5	10103.4	7294.7	5793.4	4595.5	3449.8	2878.7	2503.4
32.5°	11714.2	11604.7	11389.2	11218.6	10994.2	7853.2	6066.3	4613.5	3286.3	2672.3	2302.3
35°	12558.3	12482.9	12301.5	12141.6	11908.2	8381.1	6355.5	4604.5	3092.4	2446.0	2119.0
37.5°	13508.3	13463.4	13373.5	13170.7	12885.1	9097.7	6702.1	4566.9	2855.4	2221.4	1979.0
40°	14521.1	14524.8	14427.8	14289.5	14023.7	9966.9	7115.1	4493.2	2596.8	2023.9	1851.5
42.5°	15593.2	15648.9	15602.3	15503.4	15248.4	10843.3	7608.9	4403.4	2345.3	1831.8	1725.8
45°	16821.6	16889.8	16961.6	16816.2	16568.4	11999.8	8259.1	4286.7	2074.2	1671.9	1639.6
47.5°	18238.5	18346.3	18411.0	18412.7	18164.8	13432.9	9315.0	4216.6	1833.5	1564.2	1598.3
50°	21228.6	21262.7	21415.4	21681.1	21490.8	16749.8	11159.4	4173.5	1670.2	1497.7	1567.8
52.5°	25536.8	25912.2	26176.1	26158.2	25899.6	18856.3	12175.8	3950.8	1573.2	1472.5	1553.4
55°	27291.3	27760.0	28248.5	28377.8	28176.7	20653.9	13136.5	3728.1	1526.4	1490.5	1558.8
57.5°	29629.5	30419.7	31089.5	31371.4	31080.5	22954.4	14400.8	3611.4	1512.1	1539.0	1592.9
60°	32360.9	33338.0	34217.9	34724.3	34724.3	25597.8	15711.8	3562.9	1492.4	1610.8	1650.3
62.5°	34115.5	35550.4	36879.3	37621.0	37599.5	27438.6	16293.7	3397.7	1447.5	1661.2	1729.4
65°	34122.7	35828.8	37522.2	38355.4	38398.6	27212.3	15332.8	3000.8	1364.8	1668.3	1808.4
67.5°	31278.1	33097.3	35070.9	36003.0	36218.4	25050.1	13273.0	2467.5	1230.1	1596.5	1837.1
70°	26416.8	28192.8	30207.7	31123.7	31506.2	21354.3	10690.7	1901.8	1057.7	1438.5	1777.9
72.5°	20811.9	22553.9	23956.5	24626.3	24924.4	16322.4	7785.0	1436.6	867.4	1212.2	1618.0
75°	14734.9	16042.2	16787.4	16936.6	16983.2	9839.4	4730.2	1068.5	714.7	942.9	1366.7
77.5°	8316.5	8876.9	8815.8	8882.2	8329.1	3798.2	2059.8	765.1	589.0	716.6	1059.6
80°	3246.8	3347.4	3144.6	3081.6	2826.6	1413.3	908.7	533.4	470.6	542.4	741.6
82.5°	1431.3	1478.0	1434.9	1445.6	1382.8	729.2	544.1	386.1	359.2	396.9	492.0
85°	788.4	802.7	799.1	822.5	788.4	290.9	258.6	237.0	251.4	269.3	316.1
87.5°	384.3	387.9	375.3	395.1	382.5	147.3	127.5	134.7	147.3	150.9	150.9
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°	3083.5	3083.5	3083.5	3083.5	3083.5	3083.5
2.5°	2912.9	2898.5	2900.3	2896.7	2889.5	2889.5
5°	2887.7	2873.4	2873.4	2869.8	2860.8	2862.5
7.5°	2912.9	2889.5	2880.5	2867.9	2855.4	2855.4
10°	2941.6	2900.3	2875.1	2853.6	2837.5	2837.5
12.5°	2963.2	2898.5	2857.2	2828.5	2812.3	2812.3
15°	2970.3	2885.9	2828.5	2794.3	2780.0	2778.1
17.5°	2947.0	2837.5	2767.4	2727.9	2709.9	2704.6
20°	2875.1	2749.4	2665.0	2620.1	2595.0	2586.0
22.5°	2767.4	2623.8	2524.9	2478.3	2446.0	2440.6
25°	2616.5	2462.1	2365.2	2320.3	2302.3	2296.8
27.5°	2440.6	2296.8	2214.3	2185.5	2169.4	2167.5
30°	2273.5	2151.4	2090.4	2068.8	2049.1	2045.5
32.5°	2117.3	2040.1	2016.7	1986.2	1939.5	1934.1
35°	2005.9	1998.7	1982.6	1914.4	1856.9	1840.7
37.5°	1937.7	2004.2	1921.5	1786.9	1745.6	1742.0
40°	1898.2	1948.5	1806.6	1759.9	1763.5	1759.9
42.5°	1808.4	1860.4	1810.2	1788.6	1803.1	1806.6
45°	1718.7	1776.0	1837.1	1822.8	1856.9	1856.9
47.5°	1668.3	1754.6	1835.4	1835.4	1885.6	1903.6
50°	1610.8	1736.6	1806.6	1831.8	1871.3	1856.9
52.5°	1607.3	1706.1	1765.3	1810.2	1828.1	1812.0
55°	1612.7	1680.9	1724.0	1774.3	1795.8	1797.6
57.5°	1619.8	1666.5	1695.2	1718.7	1783.3	1783.3
60°	1637.8	1654.0	1670.2	1682.7	1767.1	1768.9
62.5°	1666.5	1641.4	1637.8	1650.3	1758.1	1751.0
65°	1711.4	1623.4	1596.5	1609.1	1749.1	1727.6
67.5°	1772.5	1596.5	1544.5	1553.4	1742.0	1695.2
70°	1828.1	1553.4	1479.8	1470.8	1673.8	1591.1
72.5°	1833.5	1503.1	1390.0	1363.1	1454.6	1375.6
75°	1743.7	1469.0	1291.2	1212.2	1201.5	1190.6
77.5°	1571.4	1449.2	1176.3	1052.3	1030.8	1038.0
80°	1314.6	1375.6	1038.0	890.8	1007.5	994.9
82.5°	982.3	1213.9	881.8	788.4	786.5	695.0
85°	545.9	946.4	718.3	590.9	411.2	398.6
87.5°	152.6	526.2	502.9	334.0	228.1	237.0
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)