

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: P269744

Luminaire Tested: **GLEON-AF-10-LED-E1-T2R-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269744
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-10-LED-E1-T2R-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 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: 58499.2 lumens
Efficiency: N/A
Efficacy: 91.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B4 - U0 - G5

Input Watts (W): 640
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

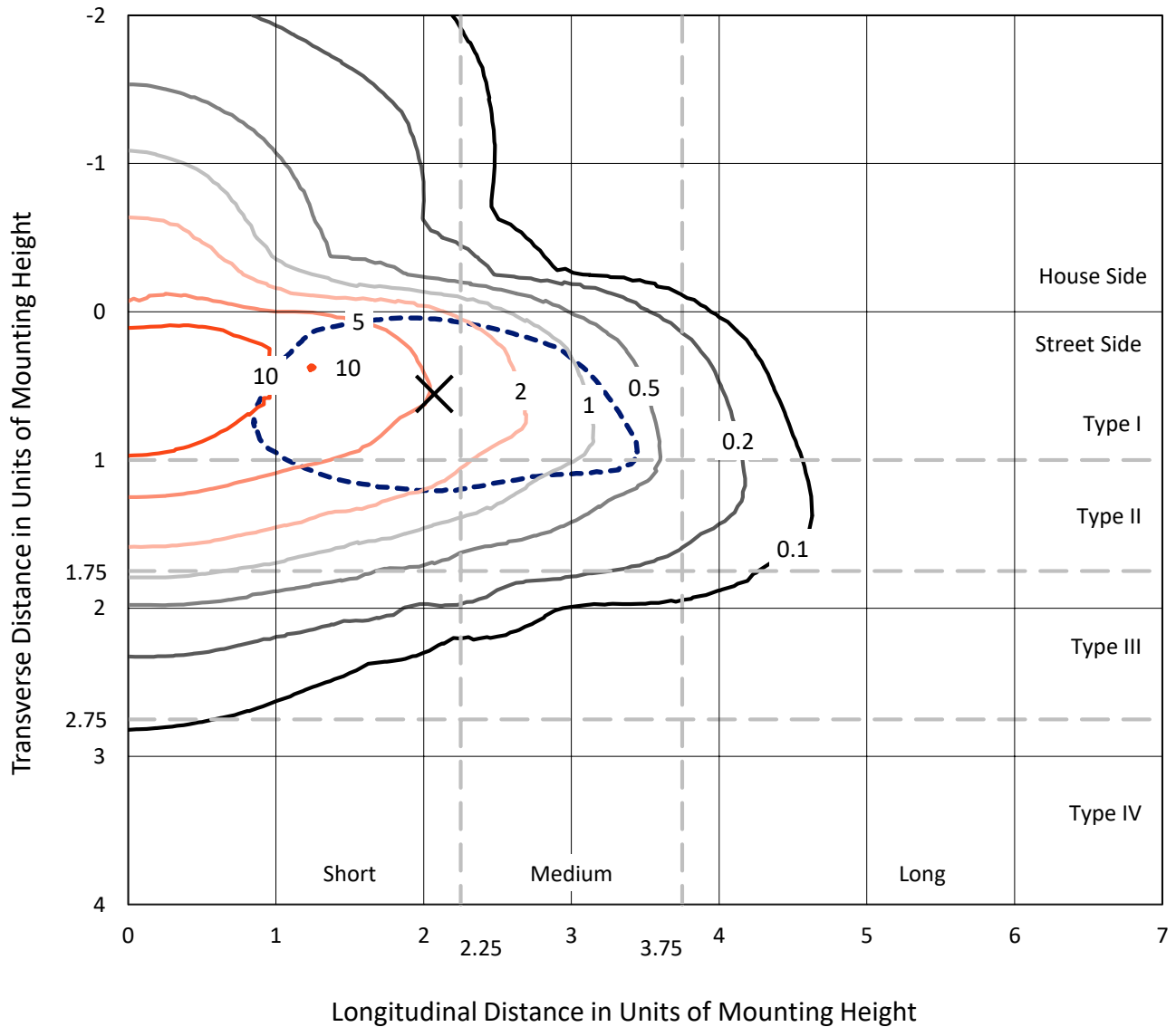


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

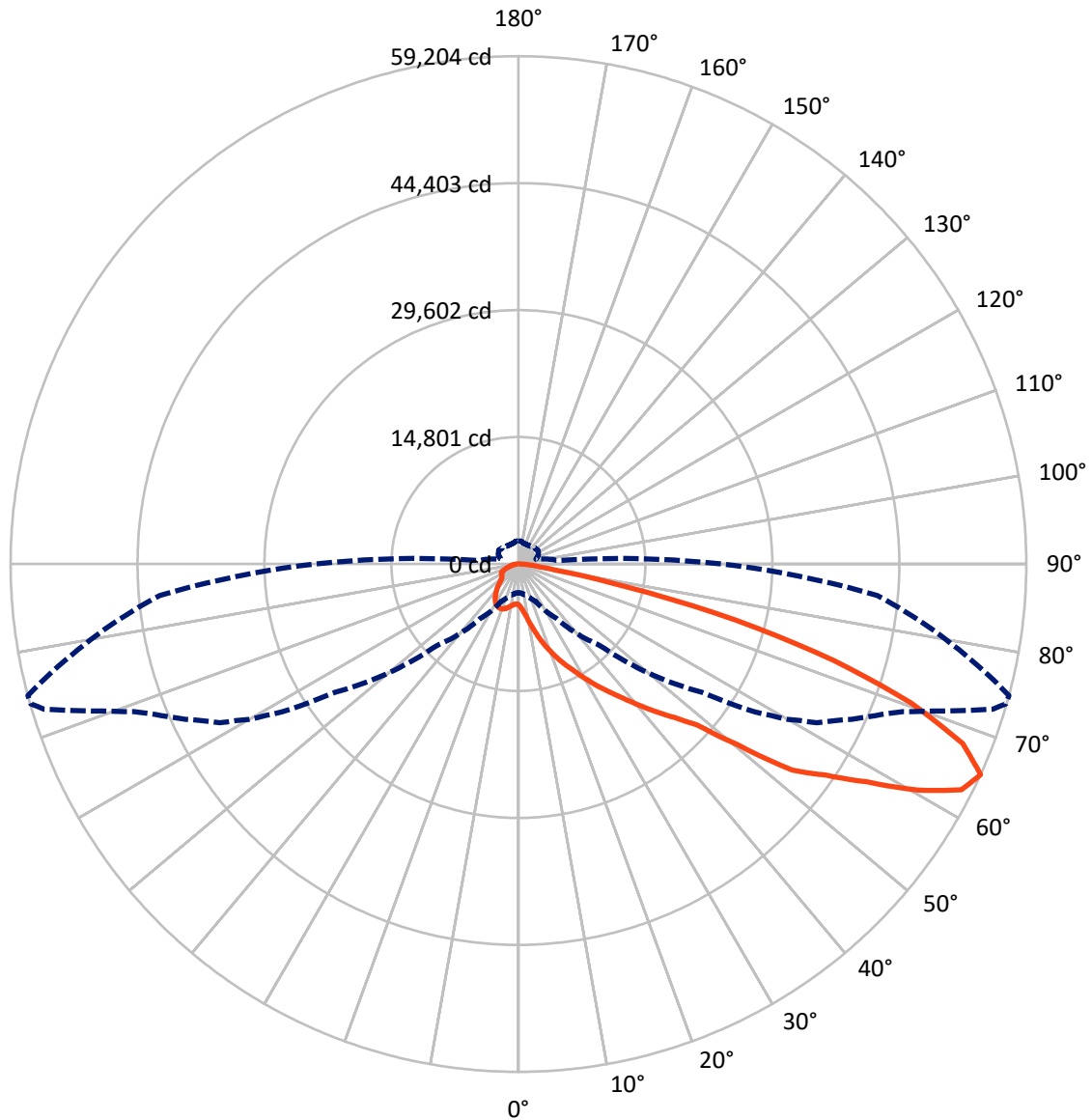


Based on 30 foot mounting height. Maximum calculated value = 16.4 fc
 Type II - Short - Full Cutoff

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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	9019.2	0.0	9019.2
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	49480.0	0.0	49480.0
	% Fixture	84.6	0.0	84.6
Total	Lumens	58499.2	0.0	58499.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	587.6	1.0
10°-20°	2296.0	3.9
20°-30°	4710.7	8.1
30°-40°	7925.5	13.5
40°-50°	10950.8	18.7
50°-60°	13669.8	23.4
60°-70°	12301.4	21.0
70°-80°	5156.6	8.8
80°-90°	900.9	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°	58499.2	100.0
0°-180°	58499.2	100.0



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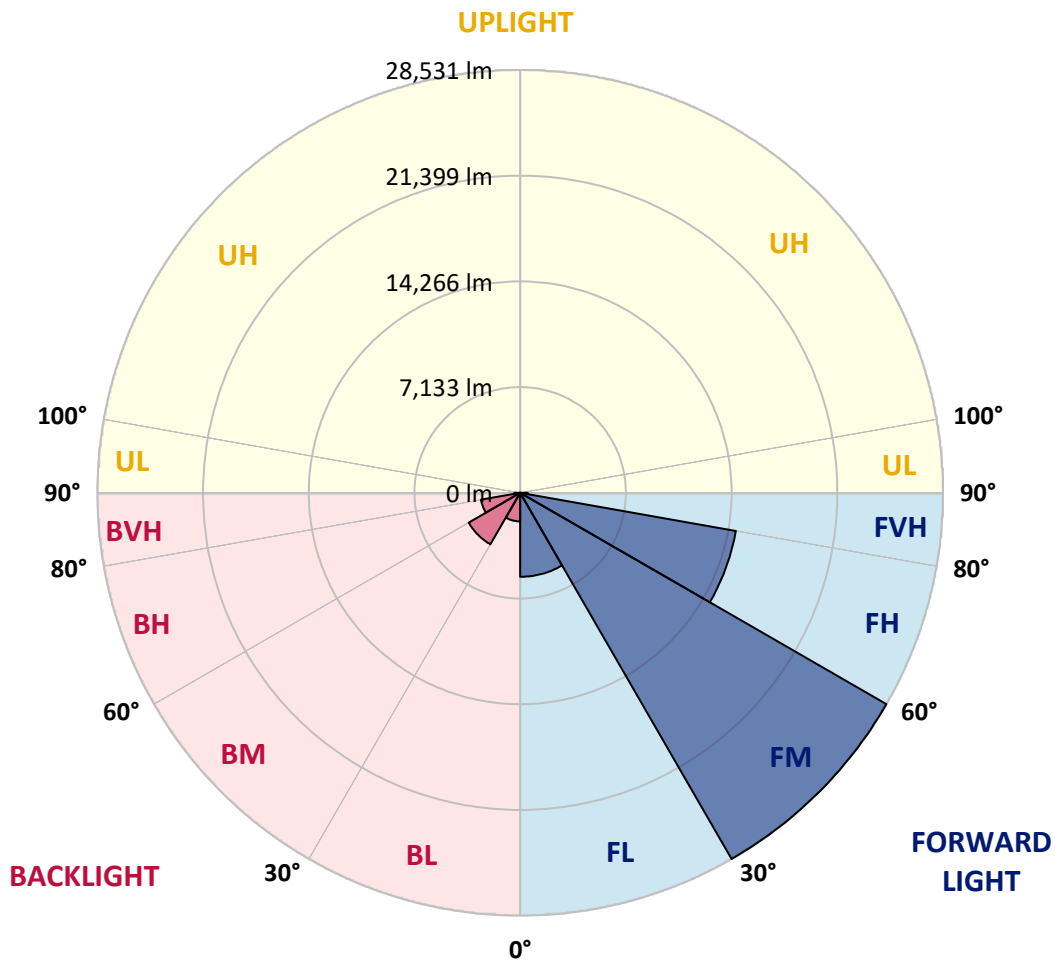
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5665.5	9.7			
FM	(30°-60°)	28531.5	48.8			
FH	(60°-80°)	14776.7	25.3			G5
FVH	(80°-90°)	506.4	0.9			G4/750
BL	(0°-30°)	1928.8	3.3	B3/2500		
BM	(30°-60°)	4014.6	6.9	B3/5000		
BH	(60°-80°)	2681.3	4.6	B4/5000		G4/5000
BVH	(80°-90°)	394.5	0.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	4754.2	4754.2	4754.2	4754.2	4754.2	4754.2	4754.2	4754.2	4754.2	4754.2	4754.2
2.5°	6036.3	5969.7	5986.3	5875.5	5739.9	5562.8	5366.1	5363.3	5366.1	5346.7	5274.8
5°	8370.3	8290.1	8259.6	8010.4	7644.8	7124.4	6559.6	6498.6	6473.6	6409.9	6263.3
7.5°	10073.2	10028.9	9981.8	9793.5	9461.3	8879.8	8121.1	7991.1	7866.4	7835.9	7669.8
10°	11172.5	11161.4	11061.6	11011.9	10804.3	10300.2	9561.0	9436.3	9300.7	9253.6	9079.2
12.5°	12041.9	12039.2	11992.1	12005.8	11825.9	11460.4	10823.6	10710.0	10610.4	10466.4	10341.7
15°	12642.7	12645.5	12714.7	12792.3	12764.6	12518.2	11920.1	11870.3	11784.3	11684.8	11538.0
17.5°	13135.6	13149.5	13221.4	13362.6	13514.9	13495.5	13022.1	12980.6	12905.8	12770.1	12692.6
20°	14248.6	14301.2	14162.9	14162.9	14179.4	14254.2	14027.3	13993.9	13888.8	13816.7	13755.8
22.5°	16128.8	16189.8	15876.9	15558.4	15245.6	15018.5	14791.4	14833.0	14760.9	14711.2	14675.2
25°	18570.9	18618.0	18111.3	17574.1	16937.4	16106.6	15544.5	15519.6	15480.9	15450.4	15433.8
27.5°	20869.2	20888.5	20409.5	19623.1	18883.8	17690.4	16308.8	16278.2	16231.3	16173.1	16123.3
30°	22835.0	22829.4	22336.6	21586.2	20794.3	19473.5	17468.9	17374.7	17236.3	17078.4	16956.6
32.5°	24537.9	24529.6	23989.6	23211.7	22380.9	21240.2	19058.4	18864.4	18648.5	18341.1	18155.6
35°	25878.1	25872.5	25363.0	24551.8	23599.3	22904.3	20880.3	20642.1	20367.9	19955.4	19670.1
37.5°	26384.7	26384.7	26099.5	25545.8	24704.0	24227.7	22904.3	22616.3	22322.8	21854.9	21533.6
40°	26088.4	26094.0	26155.0	26052.5	25642.7	25277.1	24792.6	24620.9	24369.0	23948.2	23613.0
42.5°	25094.4	25125.0	25529.1	26024.7	26229.7	26171.5	26467.8	26390.2	26213.1	25889.2	25623.3
45°	23834.5	23928.7	24371.7	25307.6	26393.0	26944.0	27871.6	27879.9	27846.6	27672.3	27467.4
47.5°	22104.1	22237.0	22821.3	24086.6	26011.0	27694.4	29297.6	29372.4	29441.6	29328.0	29233.9
50°	19805.9	19963.8	20838.6	22516.6	25232.9	28472.5	31991.8	32329.6	32645.1	32606.5	32670.1
52.5°	17344.4	17529.9	18601.5	20470.3	23895.5	28652.5	33714.0	34264.9	34816.0	35267.4	35746.3
55°	15123.7	15024.1	16095.6	18064.2	21697.0	27841.2	35261.8	35926.4	36541.1	37094.8	37665.3
57.5°	12114.0	12277.2	13351.6	15298.1	18787.0	25551.3	36327.8	37299.8	38182.9	39099.4	39908.0
60°	8855.0	9018.3	10183.9	12161.0	15627.6	22079.1	35513.8	36986.9	38401.7	39805.5	40902.0
62.5°	5346.7	5468.5	6495.9	8378.6	12050.3	17961.8	31886.5	33819.2	35901.4	37579.3	39260.1
65°	3328.2	3397.4	3776.7	4812.3	7739.1	13409.7	26052.5	28159.6	30402.3	32531.7	34278.9
67.5°	2724.6	2749.5	2818.7	3040.3	4250.2	8744.1	19390.5	21256.8	23280.8	25340.8	27284.6
70°	2450.4	2433.9	2433.9	2447.7	2724.6	4701.5	12695.3	13911.0	15597.1	17388.6	19166.2
72.5°	2212.3	2195.7	2165.3	2123.8	2223.5	2868.6	6562.3	7478.7	8694.3	10286.4	11989.3
75°	1988.0	1965.9	1929.9	1877.3	1946.5	2165.3	3151.0	3535.9	4128.4	4975.7	5925.4
77.5°	1755.5	1727.8	1694.6	1655.8	1744.4	1683.5	1846.8	1985.3	2212.3	2483.8	2840.9
80°	1492.4	1467.6	1456.4	1437.1	1542.3	1282.1	1304.2	1389.9	1522.8	1669.6	1835.7
82.5°	1168.4	1168.4	1212.8	1221.1	1337.3	922.0	974.7	1049.4	1118.6	1196.2	1273.6
85°	769.8	775.2	924.9	982.9	1055.0	620.2	731.0	756.0	811.3	855.5	888.9
87.5°	240.8	260.2	564.9	625.8	606.4	351.6	448.6	459.7	498.4	528.8	556.5
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°	4754.2	4754.2	4754.2	4754.2	4754.2	4754.2	4754.2	4754.2	4754.2	4754.2	4754.2
2.5°	5274.8	5241.5	5211.1	5208.3	5186.2	5155.6	5166.7	5119.7	5122.4	5097.5	5069.9
5°	6202.3	6180.2	6069.4	6038.9	5955.9	5903.3	5894.9	5784.1	5770.4	5706.8	5637.5
7.5°	7536.9	7464.9	7309.9	7235.0	7093.8	6988.6	6938.9	6792.1	6720.1	6553.9	6479.1
10°	8935.3	8843.9	8652.7	8547.6	8411.9	8242.9	8151.6	7938.4	7855.4	7703.1	7520.3
12.5°	10231.1	10139.7	9943.1	9862.9	9682.8	9502.8	9403.2	9162.3	9054.2	8810.5	8666.6
15°	11429.9	11338.5	11166.9	11083.8	10903.8	10757.2	10624.3	10386.2	10258.7	10031.7	9843.4
17.5°	12592.9	12496.1	12346.5	12271.7	12097.2	11947.7	11803.8	11579.5	11449.3	11222.3	11053.5
20°	13672.8	13600.8	13492.8	13393.1	13218.6	13082.9	12911.2	12717.6	12529.2	12363.2	12202.4
22.5°	14614.2	14586.5	14470.2	14425.9	14276.5	14160.2	14010.5	13819.5	13683.8	13473.4	13323.9
25°	15425.4	15417.3	15361.7	15347.9	15242.7	15131.9	15098.7	14940.9	14816.4	14630.9	14475.7
27.5°	16123.3	16131.6	16117.7	16156.5	16128.8	16078.9	16081.6	16029.0	15957.1	15802.1	15666.4
30°	16898.6	16854.2	16879.2	16934.5	16951.1	16956.6	17048.0	17078.4	17072.9	16970.5	16904.0
32.5°	17994.9	17889.7	17792.9	17784.6	17840.0	17862.1	18017.1	18097.4	18166.7	18191.5	18202.6
35°	19393.2	19182.9	18980.7	18872.8	18778.6	18803.5	18914.4	19044.3	19196.7	19301.9	19426.6
37.5°	21154.2	20896.8	20539.7	20284.8	20221.1	20082.8	20154.7	20257.1	20406.6	20570.1	20786.1
40°	23289.1	22898.8	22497.2	22159.4	21976.7	21721.9	21719.2	21699.7	21791.2	21943.4	22248.1
42.5°	25343.6	24997.6	24571.1	24216.7	23978.5	23638.0	23568.8	23388.8	23430.3	23563.3	23859.5
45°	27268.1	26982.7	26722.5	26312.8	26110.7	25742.4	25626.0	25413.0	25293.8	25354.8	25651.0
47.5°	29131.5	28948.7	28677.4	28411.6	28256.5	27927.0	27777.5	27625.1	27473.0	27467.4	27777.5
50°	32764.3	32667.4	32346.2	32069.3	32144.1	31739.8	31764.6	31354.9	31540.4	31562.6	32213.3
52.5°	36178.2	36516.1	36754.2	37044.9	37233.3	37269.2	37393.8	37579.3	37803.6	38246.6	38850.3
55°	38133.1	38556.8	38803.1	39024.7	39390.1	39467.8	39675.4	39921.8	40118.5	40616.9	41129.1
57.5°	40456.2	41242.7	41624.8	41976.4	42469.2	42657.5	43003.7	43272.3	43527.0	44116.8	44736.9
60°	41887.7	42845.7	43623.9	44180.4	44797.8	45240.9	45764.2	46185.1	46783.1	47489.2	48414.1
62.5°	40749.8	42156.3	43189.2	44144.4	44983.3	45830.6	46581.0	47367.4	48275.5	49344.3	50778.6
65°	36217.1	37648.5	39417.8	40409.1	41519.5	42826.4	43967.3	45240.9	46478.6	48034.7	50155.6
67.5°	29156.4	30820.5	32808.5	33808.2	35084.7	36543.8	37823.0	39379.1	40824.6	42710.2	45332.2
70°	21015.8	23167.3	24839.8	25883.6	27373.2	28876.7	30111.6	31922.4	33118.7	35051.3	37762.1
72.5°	13307.3	15004.6	17053.7	18368.8	19692.4	21215.2	22477.8	24039.5	25155.3	26916.4	29372.4
75°	7154.8	8406.3	10206.2	11454.8	12872.5	14173.9	15652.5	16699.1	17524.2	18917.0	20910.7
77.5°	3353.2	4114.5	5025.6	5986.3	6947.1	7949.6	8924.1	9771.5	10125.9	10923.3	12100.0
80°	2035.1	2281.5	2547.4	2843.7	3245.1	3569.1	3998.3	4308.5	4330.5	4582.6	4942.5
82.5°	1359.6	1450.9	1531.3	1606.0	1708.3	1788.7	1880.1	1988.0	2032.3	2090.5	2206.7
85°	927.6	971.8	988.5	1035.6	1024.4	1052.2	1088.1	1124.1	1143.5	1140.8	1193.4
87.5°	570.5	592.5	603.7	614.7	606.4	595.2	611.9	631.2	636.9	620.2	625.8
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):

	71°	72°	73°	74°	75°	85°	90°	95°	105°	115°	125°
0°	4754.2	4754.2	4754.2	4754.2	4754.2	4754.2	4754.2	4754.2	4754.2	4754.2	4754.2
2.5°	5075.3	5050.5	5025.6	5008.9	5003.4	4856.6	4792.9	4751.4	4662.8	4590.8	4532.7
5°	5598.6	5546.0	5504.5	5454.7	5427.0	5056.0	4920.3	4826.1	4671.0	4579.7	4496.6
7.5°	6440.5	6293.6	6207.8	6110.9	6027.8	5357.9	5133.5	4986.9	4770.8	4649.0	4554.9
10°	7395.7	7243.5	7107.7	6958.2	6828.0	5759.4	5432.6	5205.5	4920.3	4762.5	4637.9
12.5°	8461.8	8312.1	8140.5	7949.6	7783.4	6268.7	5814.6	5490.7	5100.2	4889.8	4715.5
15°	9721.5	9458.6	9250.8	9029.4	8835.5	6878.0	6260.5	5811.9	5291.3	5006.2	4773.6
17.5°	10892.8	10615.9	10333.6	10139.7	9915.4	7561.8	6709.0	6138.6	5449.2	5081.0	4784.6
20°	12036.4	11734.6	11490.8	11230.6	10995.3	8270.6	7188.1	6426.6	5551.6	5083.7	4715.5
22.5°	13044.3	12856.0	12584.5	12302.2	12064.1	8979.5	7636.6	6670.3	5590.4	5020.0	4593.7
25°	14190.5	13991.2	13658.9	13420.8	13155.0	9702.1	8076.8	6858.5	5568.2	4901.0	4405.3
27.5°	15414.3	15192.9	14852.3	14603.1	14282.0	10452.6	8481.1	6994.3	5485.2	4707.1	4153.4
30°	16690.9	16488.7	16153.7	15901.7	15577.8	11247.1	8932.4	7085.7	5319.0	4438.5	3859.8
32.5°	18061.4	17892.6	17560.2	17297.3	16951.1	12108.3	9353.3	7113.3	5067.1	4120.0	3549.7
35°	19362.8	19246.5	18967.0	18720.5	18360.5	12922.4	9799.2	7099.5	4768.1	3771.3	3267.2
37.5°	20827.7	20758.4	20620.0	20307.1	19866.7	14027.3	10333.6	7041.3	4402.6	3425.1	3051.4
40°	22389.3	22394.7	22245.3	22032.0	21622.3	15367.3	10970.3	6927.8	4003.8	3120.5	2854.8
42.5°	24042.2	24128.0	24056.2	23903.8	23510.6	16718.5	11731.8	6789.3	3616.1	2824.4	2660.9
45°	25936.1	26041.3	26152.1	25927.9	25545.8	18501.8	12734.2	6609.3	3198.1	2577.9	2528.0
47.5°	28120.8	28287.0	28386.6	28389.5	28007.4	20711.3	14362.2	6501.4	2827.1	2411.7	2464.3
50°	32731.1	32783.6	33019.0	33428.7	33135.3	25825.5	17205.9	6434.9	2575.1	2309.3	2417.2
52.5°	39373.6	39952.3	40359.3	40331.7	39933.0	29073.4	18773.0	6091.5	2425.6	2270.5	2395.2
55°	42078.8	42801.5	43554.6	43753.9	43443.9	31844.9	20254.4	5748.3	2353.6	2298.1	2403.3
57.5°	45683.9	46902.2	47934.9	48369.7	47921.2	35392.0	22203.8	5568.2	2331.5	2373.0	2456.0
60°	49895.4	51401.6	52758.4	53539.3	53539.3	39467.8	24225.0	5493.4	2301.0	2483.8	2544.5
62.5°	52600.6	54812.9	56862.0	58005.4	57972.2	42305.9	25122.1	5238.7	2231.7	2561.2	2666.4
65°	52611.7	55242.1	57853.2	59137.8	59204.4	41957.0	23640.8	4626.8	2104.4	2572.2	2788.2
67.5°	48225.8	51030.6	54073.7	55510.8	55843.0	38623.3	20464.8	3804.4	1896.7	2461.5	2832.5
70°	40730.4	43468.9	46575.5	47987.5	48577.4	32924.9	16483.2	2932.2	1630.9	2217.8	2741.2
72.5°	32088.6	34774.5	36937.0	37969.7	38429.4	25166.5	12003.2	2215.1	1337.3	1869.1	2494.8
75°	22718.8	24734.6	25883.6	26113.4	26185.4	15170.8	7293.2	1647.5	1102.0	1453.6	2107.2
77.5°	12822.8	13686.7	13592.4	13694.9	12842.1	5856.2	3175.9	1179.6	908.1	1104.7	1633.7
80°	5006.2	5161.2	4848.3	4751.4	4358.2	2179.1	1401.0	822.4	725.4	836.2	1143.5
82.5°	2206.7	2278.8	2212.3	2229.0	2132.0	1124.1	838.9	595.2	553.7	611.9	758.7
85°	1215.5	1237.7	1232.1	1268.1	1215.5	448.6	398.7	365.5	387.7	415.3	487.3
87.5°	592.5	598.1	578.7	609.1	589.7	227.0	196.5	207.7	227.0	232.7	232.7
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):

	135°	145°	155°	165°	175°	180°
0°	4754.2	4754.2	4754.2	4754.2	4754.2	4754.2
2.5°	4491.2	4469.0	4471.8	4466.3	4455.1	4455.1
5°	4452.4	4430.3	4430.3	4424.7	4410.9	4413.6
7.5°	4491.2	4455.1	4441.3	4421.8	4402.6	4402.6
10°	4535.5	4471.8	4433.0	4399.8	4374.8	4374.8
12.5°	4568.7	4469.0	4405.3	4361.0	4336.1	4336.1
15°	4579.7	4449.7	4361.0	4308.5	4286.3	4283.5
17.5°	4543.7	4374.8	4266.9	4206.0	4178.2	4169.9
20°	4433.0	4239.2	4109.0	4039.8	4001.1	3987.1
22.5°	4266.9	4045.3	3893.1	3821.1	3771.3	3762.9
25°	4034.3	3796.1	3646.6	3577.4	3549.7	3541.4
27.5°	3762.9	3541.4	3414.1	3369.7	3344.7	3342.1
30°	3505.5	3317.1	3222.9	3189.7	3159.2	3153.8
32.5°	3264.5	3145.4	3109.5	3062.4	2990.4	2982.2
35°	3092.9	3081.7	3056.8	2951.7	2863.1	2838.1
37.5°	2987.7	3090.1	2962.7	2755.0	2691.3	2685.8
40°	2926.7	3004.2	2785.6	2713.5	2719.1	2713.5
42.5°	2788.2	2868.6	2791.0	2757.7	2780.0	2785.6
45°	2649.8	2738.5	2832.5	2810.3	2863.1	2863.1
47.5°	2572.2	2705.2	2829.8	2829.8	2907.4	2935.0
50°	2483.8	2677.5	2785.6	2824.4	2885.1	2863.1
52.5°	2478.2	2630.4	2721.9	2791.0	2818.7	2793.8
55°	2486.5	2591.7	2658.2	2735.7	2768.8	2771.7
57.5°	2497.6	2569.5	2613.8	2649.8	2749.5	2749.5
60°	2525.2	2550.2	2575.1	2594.5	2724.6	2727.3
62.5°	2569.5	2530.7	2525.2	2544.5	2710.7	2699.6
65°	2638.7	2503.0	2461.5	2480.8	2696.9	2663.7
67.5°	2733.0	2461.5	2381.2	2395.2	2685.8	2613.8
70°	2818.7	2395.2	2281.5	2267.7	2580.7	2453.2
72.5°	2827.1	2317.5	2143.1	2101.6	2242.8	2121.0
75°	2688.5	2264.9	1990.9	1869.1	1852.3	1835.7
77.5°	2422.8	2234.5	1813.6	1622.6	1589.3	1600.4
80°	2026.8	2121.0	1600.4	1373.4	1553.3	1533.9
82.5°	1514.6	1871.8	1359.6	1215.5	1212.8	1071.6
85°	841.7	1459.1	1107.6	911.1	634.1	614.7
87.5°	235.4	811.3	775.2	515.0	351.6	365.5
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)