

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: P193165

Luminaire Tested: **GLEON-AF-07-LED-E1-T2R-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193165
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-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 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: 46536.8 lumens
Efficiency: N/A
Efficacy: 103.9 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



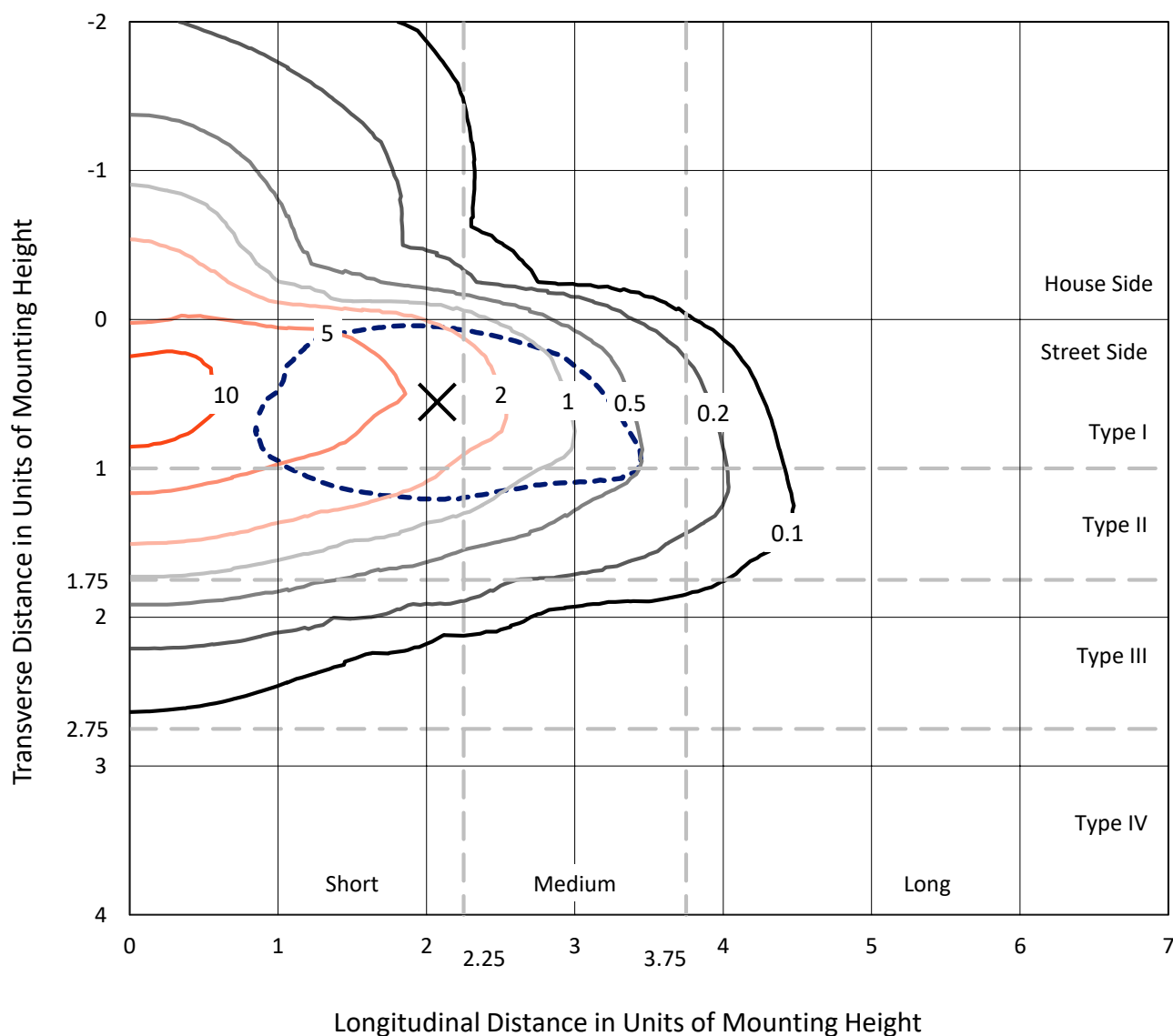
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

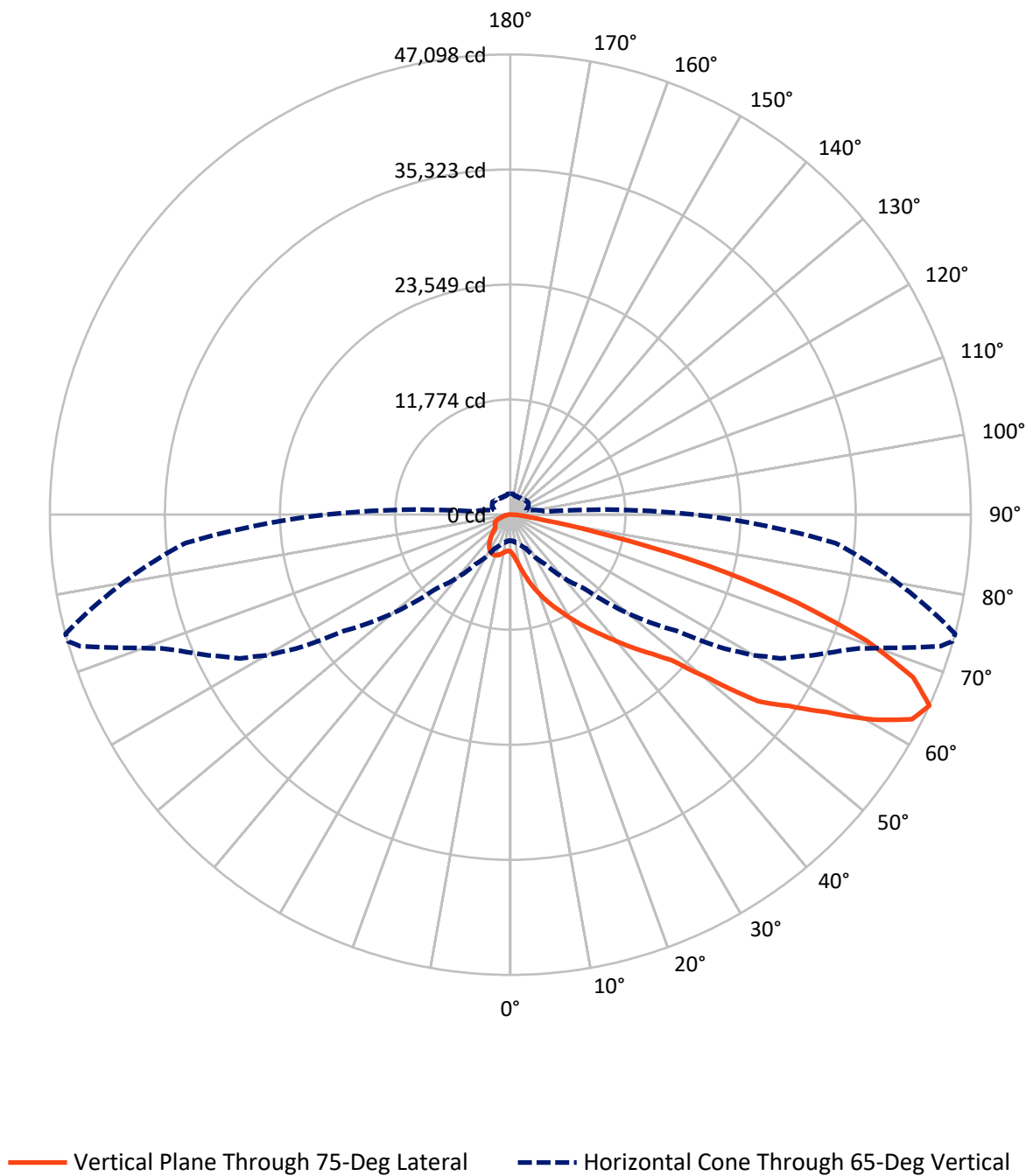


Based on 30 foot mounting height. Maximum calculated value = 13 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7174.9	0.0	7174.9
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	39361.9	0.0	39361.9
	% Fixture	84.6	0.0	84.6
Total	Lumens	46536.8	0.0	46536.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	467.5	1.0
10°-20°	1826.5	3.9
20°-30°	3747.4	8.1
30°-40°	6304.8	13.5
40°-50°	8711.5	18.7
50°-60°	10874.5	23.4
60°-70°	9785.9	21.0
70°-80°	4102.1	8.8
80°-90°	716.6	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°	46536.8	100.0
0°-180°	46536.8	100.0

Coefficient of Utilization



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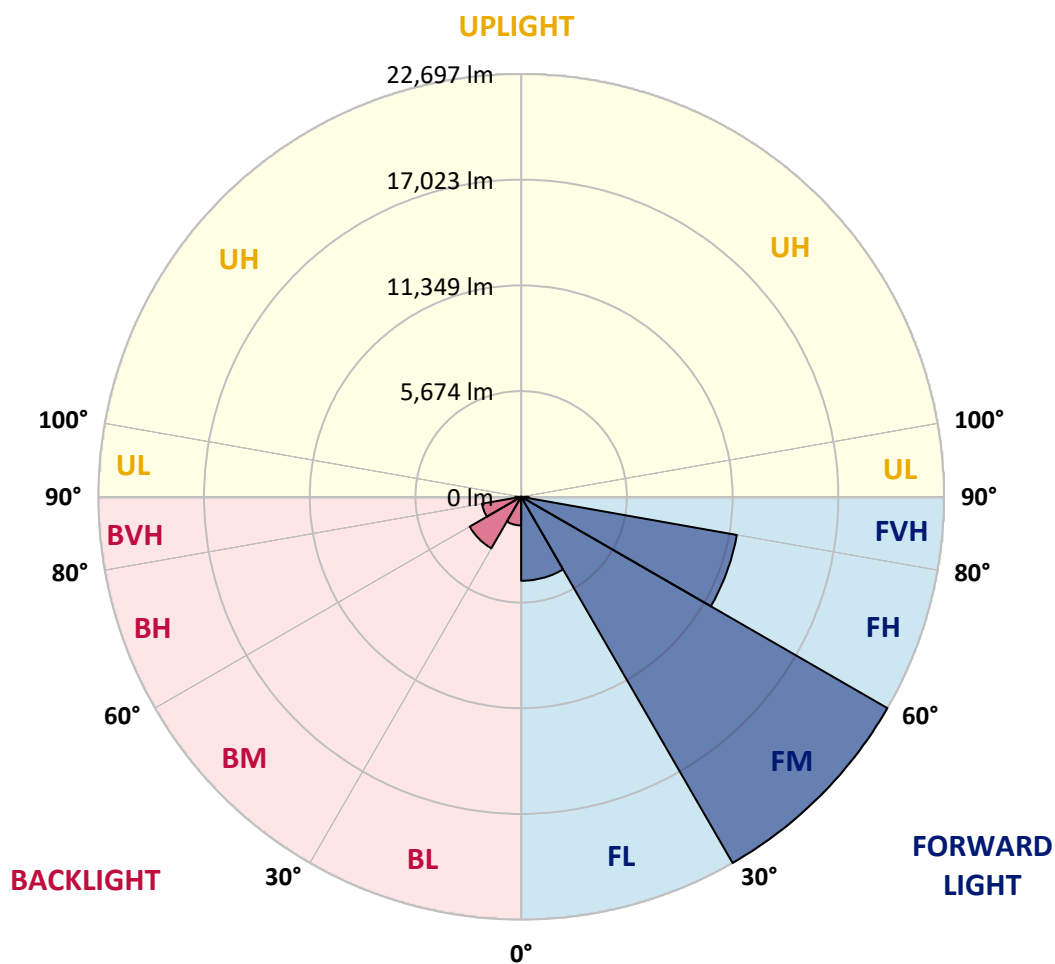
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4507.0	9.7			
FM	(30°-60°)	22697.1	48.8			
FH	(60°-80°)	11755.0	25.3			G4/12000
FVH	(80°-90°)	402.8	0.9			G3/500
BL	(0°-30°)	1534.4	3.3	B3/2500		
BM	(30°-60°)	3193.6	6.9	B3/5000		
BH	(60°-80°)	2133.0	4.6	B3/2500		G3/2500
BVH	(80°-90°)	313.8	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°	3782.0	3782.0	3782.0	3782.0	3782.0	3782.0	3782.0	3782.0	3782.0	3782.0	3782.0
2.5°	4801.8	4749.0	4762.2	4674.1	4566.2	4425.2	4268.8	4266.6	4268.8	4253.4	4196.1
5°	6658.7	6594.8	6570.7	6372.3	6081.6	5667.5	5218.1	5169.7	5149.8	5099.2	4982.4
7.5°	8013.4	7978.1	7940.6	7790.8	7526.6	7064.0	6460.5	6356.9	6257.9	6233.6	6101.5
10°	8887.8	8879.1	8799.7	8760.1	8594.9	8194.0	7605.9	7506.7	7398.8	7361.4	7222.6
12.5°	9579.5	9577.2	9539.9	9550.8	9407.7	9116.9	8610.2	8519.9	8440.8	8326.1	8227.0
15°	10057.5	10059.6	10114.6	10176.4	10154.3	9958.3	9482.5	9442.9	9374.7	9295.3	9178.6
17.5°	10449.5	10460.6	10517.9	10630.2	10751.3	10736.0	10359.2	10326.2	10266.6	10158.8	10097.0
20°	11335.0	11376.8	11266.7	11266.7	11279.9	11339.4	11158.7	11132.3	11048.7	10991.4	10943.0
22.5°	12830.7	12879.1	12630.2	12376.9	12128.0	11947.4	11766.6	11799.8	11742.5	11702.9	11674.3
25°	14773.4	14810.8	14407.7	13980.4	13473.9	12813.1	12365.9	12346.1	12315.1	12291.0	12277.8
27.5°	16601.6	16617.0	16235.9	15610.4	15022.3	14072.9	12973.8	12949.5	12912.1	12865.9	12826.2
30°	18165.6	18161.1	17769.1	17172.1	16542.2	15491.5	13896.6	13821.9	13711.7	13586.2	13489.2
32.5°	19520.1	19513.6	19084.0	18465.1	17804.3	16896.7	15161.1	15006.9	14835.1	14590.6	14443.0
35°	20586.3	20581.8	20176.6	19531.1	18773.5	18220.6	16610.4	16421.0	16202.9	15874.8	15647.9
37.5°	20989.4	20989.4	20762.4	20321.9	19652.4	19273.5	18220.6	17991.5	17758.0	17385.8	17130.2
40°	20753.7	20758.0	20806.6	20725.1	20399.0	20108.3	19722.8	19586.3	19385.8	19051.0	18784.5
42.5°	19962.9	19987.2	20308.7	20703.0	20866.0	20819.8	21055.5	20993.7	20852.7	20595.1	20383.6
45°	18960.7	19035.5	19388.0	20132.5	20996.0	21434.3	22172.2	22178.7	22152.5	22013.5	21850.6
47.5°	17583.9	17689.7	18154.5	19161.2	20691.9	22031.2	23306.5	23366.0	23421.2	23330.7	23256.0
50°	15755.7	15881.4	16577.4	17912.2	20073.0	22650.2	25449.8	25718.5	25969.7	25938.8	25989.4
52.5°	13797.6	13945.2	14797.6	16284.4	19009.2	22793.3	26819.9	27258.2	27696.5	28055.6	28436.6
55°	12031.1	11951.8	12804.2	14370.4	17260.2	22148.0	28051.1	28579.8	29068.8	29509.3	29963.0
57.5°	9636.7	9766.6	10621.3	12169.9	14945.2	20326.4	28899.2	29672.3	30374.9	31104.0	31747.3
60°	7044.2	7174.2	8101.5	9674.2	12431.9	17564.2	28251.6	29423.4	30549.0	31665.7	32538.1
62.5°	4253.4	4350.2	5167.5	6665.4	9586.1	14288.8	25366.0	26903.6	28560.0	29894.8	31231.9
65°	2647.6	2702.6	3004.4	3828.2	6156.5	10667.6	20725.1	22401.3	24185.4	25879.2	27269.3
67.5°	2167.4	2187.3	2242.3	2418.6	3381.1	6956.1	15425.3	16909.9	18520.1	20159.0	21705.2
70°	1949.4	1936.2	1936.2	1947.2	2167.4	3740.2	10099.3	11066.4	12407.7	13832.9	15246.9
72.5°	1759.9	1746.7	1722.5	1689.4	1768.8	2282.0	5220.4	5949.5	6916.4	8183.0	9537.6
75°	1581.5	1563.9	1535.3	1493.5	1548.5	1722.5	2506.6	2812.8	3284.3	3958.3	4713.8
77.5°	1396.6	1374.5	1348.0	1317.2	1387.7	1339.2	1469.2	1579.4	1759.9	1975.9	2259.9
80°	1187.2	1167.4	1158.5	1143.2	1226.9	1019.8	1037.4	1105.7	1211.4	1328.3	1460.4
82.5°	929.6	929.6	964.8	971.5	1063.8	733.4	775.3	834.8	889.9	951.5	1013.3
85°	612.4	616.8	735.7	782.0	839.2	493.5	581.5	601.4	645.4	680.5	707.0
87.5°	191.6	207.0	449.4	497.7	482.4	279.7	356.8	365.7	396.5	420.7	442.7
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):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	3782.0	3782.0	3782.0	3782.0	3782.0	3782.0	3782.0	3782.0	3782.0	3782.0	3782.0
2.5°	4196.1	4169.7	4145.4	4143.2	4125.6	4101.4	4110.3	4072.7	4075.0	4055.1	4033.1
5°	4934.0	4916.3	4828.2	4804.0	4737.9	4696.1	4689.5	4601.5	4590.4	4539.7	4484.6
7.5°	5995.7	5938.5	5815.1	5755.6	5643.2	5559.5	5519.9	5403.2	5345.9	5213.8	5154.3
10°	7108.1	7035.3	6883.4	6799.6	6691.8	6557.4	6484.6	6315.0	6249.0	6128.0	5982.5
12.5°	8138.9	8066.2	7909.9	7845.9	7702.8	7559.6	7480.3	7288.6	7202.8	7009.0	6894.4
15°	9092.7	9020.0	8883.5	8817.3	8674.2	8557.4	8451.6	8262.3	8160.9	7980.3	7830.5
17.5°	10017.8	9940.7	9821.8	9762.4	9623.5	9504.6	9390.1	9211.6	9108.1	8927.5	8793.0
20°	10876.9	10819.6	10733.6	10654.4	10515.6	10407.7	10271.1	10117.0	9967.1	9835.0	9707.2
22.5°	11625.7	11603.8	11511.2	11475.9	11357.1	11264.5	11145.5	10993.5	10885.6	10718.3	10599.4
25°	12271.1	12264.6	12220.4	12209.5	12125.8	12037.6	12011.2	11885.7	11786.6	11639.0	11515.6
27.5°	12826.2	12832.8	12821.8	12852.6	12830.7	12791.0	12793.1	12751.3	12694.1	12570.8	12462.7
30°	13442.9	13407.7	13427.5	13471.5	13484.8	13489.2	13562.0	13586.2	13581.7	13500.2	13447.4
32.5°	14315.2	14231.6	14154.4	14147.9	14191.9	14209.5	14332.8	14396.8	14451.8	14471.6	14480.4
35°	15427.6	15260.1	15099.4	15013.6	14938.6	14958.4	15046.5	15150.0	15271.1	15354.9	15454.0
37.5°	16828.4	16623.7	16339.5	16136.8	16086.2	15976.0	16033.4	16114.8	16233.7	16363.8	16535.6
40°	18526.8	18216.1	17896.7	17628.1	17482.7	17280.0	17277.8	17262.4	17335.1	17456.3	17698.6
42.5°	20161.2	19885.8	19546.6	19264.7	19075.2	18804.3	18749.2	18606.1	18639.1	18744.8	18980.5
45°	21692.0	21465.2	21258.1	20932.1	20771.3	20478.4	20385.8	20216.2	20121.5	20170.0	20405.7
47.5°	23174.4	23029.0	22813.3	22601.7	22478.4	22216.2	22097.3	21976.2	21855.0	21850.6	22097.3
50°	26064.4	25987.2	25731.7	25511.5	25570.9	25249.4	25269.2	24943.2	25090.8	25108.4	25626.0
52.5°	28780.2	29049.0	29238.5	29469.7	29619.4	29648.0	29747.3	29894.8	30073.2	30425.7	30905.8
55°	30335.3	30672.4	30868.4	31044.6	31335.3	31397.1	31562.3	31758.3	31914.6	32311.1	32718.7
57.5°	32183.4	32808.9	33112.8	33392.7	33784.7	33934.5	34209.8	34423.5	34626.1	35095.3	35588.7
60°	33322.2	34084.3	34703.3	35146.0	35637.2	35989.7	36406.0	36740.7	37216.6	37778.2	38513.9
62.5°	32416.9	33535.8	34357.4	35117.3	35784.8	36458.8	37055.8	37681.4	38403.7	39254.0	40395.0
65°	28811.1	29949.8	31357.4	32145.9	33029.2	34068.9	34976.4	35989.7	36974.2	38212.2	39899.4
67.5°	23194.2	24518.1	26099.6	26894.7	27910.2	29071.0	30088.7	31326.6	32476.3	33976.4	36062.3
70°	16718.3	18429.9	19760.3	20590.7	21775.7	22971.8	23954.2	25394.7	26346.2	27883.7	30040.2
72.5°	10586.1	11936.3	13566.2	14612.6	15665.5	16877.0	17881.4	19123.6	20011.4	21412.3	23366.0
75°	5691.8	6687.3	8119.0	9112.4	10240.3	11275.5	12451.7	13284.4	13940.8	15048.8	16634.6
77.5°	2667.4	3273.2	3997.9	4762.2	5526.6	6323.9	7099.2	7773.2	8055.2	8689.6	9625.7
80°	1619.0	1815.1	2026.4	2262.1	2581.6	2839.2	3180.6	3427.4	3445.0	3645.4	3931.8
82.5°	1081.5	1154.3	1218.1	1277.6	1359.0	1422.9	1495.6	1581.5	1616.8	1663.0	1755.6
85°	737.9	773.1	786.3	823.9	815.0	837.0	865.7	894.3	909.7	907.5	949.4
87.5°	453.8	471.4	480.2	489.1	482.4	473.5	486.7	502.3	506.6	493.5	497.7
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):

	71°	72°	73°	74°	75°	85°	90°	95°	105°	115°	125°
0°	3782.0	3782.0	3782.0	3782.0	3782.0	3782.0	3782.0	3782.0	3782.0	3782.0	3782.0
2.5°	4037.5	4017.7	3997.9	3984.6	3980.2	3863.5	3812.8	3779.9	3709.4	3652.1	3605.8
5°	4453.9	4412.0	4378.9	4339.2	4317.3	4022.1	3914.2	3839.3	3715.9	3643.2	3577.1
7.5°	5123.3	5006.7	4938.4	4861.3	4795.3	4262.2	4083.8	3966.9	3795.2	3698.3	3623.4
10°	5883.4	5762.3	5654.2	5535.3	5431.9	4581.6	4321.6	4141.0	3914.2	3788.6	3689.4
12.5°	6731.4	6612.5	6475.9	6323.9	6191.7	4986.9	4625.6	4367.9	4057.4	3889.9	3751.2
15°	7733.6	7524.3	7359.1	7182.9	7028.7	5471.4	4980.2	4623.5	4209.3	3982.5	3797.5
17.5°	8665.4	8445.0	8220.4	8066.2	7887.8	6015.5	5337.1	4883.4	4334.9	4041.9	3806.3
20°	9575.1	9335.0	9141.1	8934.1	8746.9	6579.4	5718.2	5112.5	4416.4	4044.1	3751.2
22.5°	10376.8	10227.1	10011.2	9786.6	9597.2	7143.3	6075.1	5306.2	4447.2	3993.4	3654.2
25°	11288.7	11130.1	10865.9	10676.4	10465.0	7718.2	6425.2	5456.1	4429.6	3898.7	3504.5
27.5°	12262.2	12086.1	11815.2	11617.0	11361.5	8315.1	6746.9	5564.0	4363.5	3744.6	3304.0
30°	13277.7	13117.0	12850.4	12650.0	12392.3	8947.2	7105.9	5636.6	4231.4	3530.9	3070.5
32.5°	14368.1	14233.7	13969.5	13760.1	13484.8	9632.3	7440.7	5658.6	4030.9	3277.6	2823.8
35°	15403.4	15310.8	15088.3	14892.4	14606.0	10279.8	7795.3	5647.7	3793.1	3000.0	2599.2
37.5°	16568.6	16513.6	16403.4	16154.4	15804.3	11158.7	8220.4	5601.4	3502.3	2724.7	2427.3
40°	17810.9	17815.3	17696.4	17526.8	17200.8	12224.9	8727.0	5511.1	3185.1	2482.4	2271.0
42.5°	19125.9	19194.1	19136.9	19015.7	18703.0	13299.8	9332.8	5401.0	2876.7	2246.7	2116.8
45°	20632.5	20716.2	20804.4	20626.0	20321.9	14718.4	10130.1	5257.8	2544.1	2050.7	2011.0
47.5°	22370.4	22502.6	22581.9	22584.1	22280.1	16476.1	11425.4	5171.9	2249.0	1918.5	1960.4
50°	26037.9	26079.7	26267.0	26592.9	26359.5	20544.4	13687.5	5119.1	2048.5	1837.0	1923.0
52.5°	31322.1	31782.5	32106.3	32084.3	31767.1	23128.1	14934.2	4845.8	1929.5	1806.2	1905.4
55°	33474.2	34049.0	34648.2	34806.8	34560.2	25333.1	16112.6	4572.7	1872.2	1828.2	1911.9
57.5°	36342.1	37311.3	38132.8	38478.6	38121.8	28154.7	17663.3	4429.6	1854.6	1887.7	1953.8
60°	39692.4	40890.6	41969.9	42591.0	42591.0	31397.1	19271.2	4370.2	1830.4	1975.9	2024.2
62.5°	41844.3	43604.3	45234.3	46144.0	46117.6	33654.8	19984.9	4167.4	1775.4	2037.4	2121.2
65°	41853.2	43945.7	46022.8	47044.9	47097.8	33377.3	18806.5	3680.7	1674.1	2046.3	2218.1
67.5°	38364.1	40595.4	43016.1	44159.4	44423.7	30725.3	16280.0	3026.5	1508.9	1958.2	2253.4
70°	32401.5	34579.9	37051.4	38174.6	38643.8	26192.0	13112.5	2332.6	1297.4	1764.3	2180.7
72.5°	25526.9	27663.5	29383.7	30205.4	30571.1	20020.2	9548.6	1762.2	1063.8	1486.8	1984.5
75°	18073.0	19676.6	20590.7	20773.5	20830.8	12068.4	5801.8	1310.6	876.7	1156.4	1676.2
77.5°	10200.7	10887.9	10813.0	10894.5	10216.1	4658.7	2526.5	938.3	722.5	878.9	1299.5
80°	3982.5	4105.9	3856.9	3779.9	3467.1	1733.5	1114.6	654.3	577.1	665.2	909.7
82.5°	1755.6	1812.8	1759.9	1773.2	1696.0	894.3	667.5	473.5	440.6	486.7	603.5
85°	967.0	984.7	980.2	1008.8	967.0	356.8	317.2	290.7	308.3	330.4	387.7
87.5°	471.4	475.9	460.3	484.6	469.2	180.6	156.3	165.2	180.6	184.9	184.9
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°	3782.0	3782.0	3782.0	3782.0	3782.0	3782.0
2.5°	3572.8	3555.1	3557.4	3552.9	3544.2	3544.2
5°	3541.9	3524.2	3524.2	3519.9	3508.9	3511.0
7.5°	3572.8	3544.2	3533.1	3517.7	3502.3	3502.3
10°	3608.0	3557.4	3526.5	3500.0	3480.2	3480.2
12.5°	3634.4	3555.1	3504.5	3469.2	3449.5	3449.5
15°	3643.2	3539.7	3469.2	3427.4	3409.8	3407.6
17.5°	3614.7	3480.2	3394.3	3345.8	3323.8	3317.2
20°	3526.5	3372.3	3268.8	3213.8	3182.8	3171.9
22.5°	3394.3	3218.1	3097.0	3039.7	3000.0	2993.4
25°	3209.3	3019.9	2901.0	2845.8	2823.8	2817.2
27.5°	2993.4	2817.2	2715.8	2680.6	2660.8	2658.6
30°	2788.7	2638.8	2563.9	2537.4	2513.3	2508.8
32.5°	2597.0	2502.2	2473.6	2436.2	2378.9	2372.2
35°	2460.4	2451.6	2431.8	2348.1	2277.6	2257.8
37.5°	2376.7	2458.3	2356.8	2191.6	2141.1	2136.6
40°	2328.2	2389.9	2215.9	2158.6	2163.0	2158.6
42.5°	2218.1	2282.0	2220.2	2193.8	2211.5	2215.9
45°	2107.9	2178.4	2253.4	2235.8	2277.6	2277.6
47.5°	2046.3	2152.0	2251.2	2251.2	2312.8	2334.9
50°	1975.9	2130.0	2215.9	2246.7	2295.2	2277.6
52.5°	1971.4	2092.6	2165.2	2220.2	2242.3	2222.6
55°	1978.0	2061.7	2114.6	2176.2	2202.6	2204.9
57.5°	1986.8	2044.1	2079.3	2107.9	2187.3	2187.3
60°	2008.8	2028.6	2048.5	2063.9	2167.4	2169.7
62.5°	2044.1	2013.2	2008.8	2024.2	2156.4	2147.6
65°	2099.2	1991.2	1958.2	1973.5	2145.5	2119.0
67.5°	2174.0	1958.2	1894.3	1905.4	2136.6	2079.3
70°	2242.3	1905.4	1815.1	1804.0	2052.9	1951.6
72.5°	2249.0	1843.6	1704.9	1671.8	1784.2	1687.3
75°	2138.8	1801.8	1583.7	1486.8	1473.6	1460.4
77.5°	1927.4	1777.5	1442.8	1290.8	1264.3	1273.2
80°	1612.3	1687.3	1273.2	1092.5	1235.7	1220.3
82.5°	1204.9	1488.9	1081.5	967.0	964.8	852.4
85°	669.6	1160.8	881.0	724.7	504.4	489.1
87.5°	187.3	645.4	616.8	409.7	279.7	290.7
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)