

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: P269343

Luminaire Tested: **GLEON-AF-05-LED-E1-T2R-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269343
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-05-LED-E1-T2R-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21755.5 lumens
Efficiency: N/A
Efficacy: 103.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 210
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

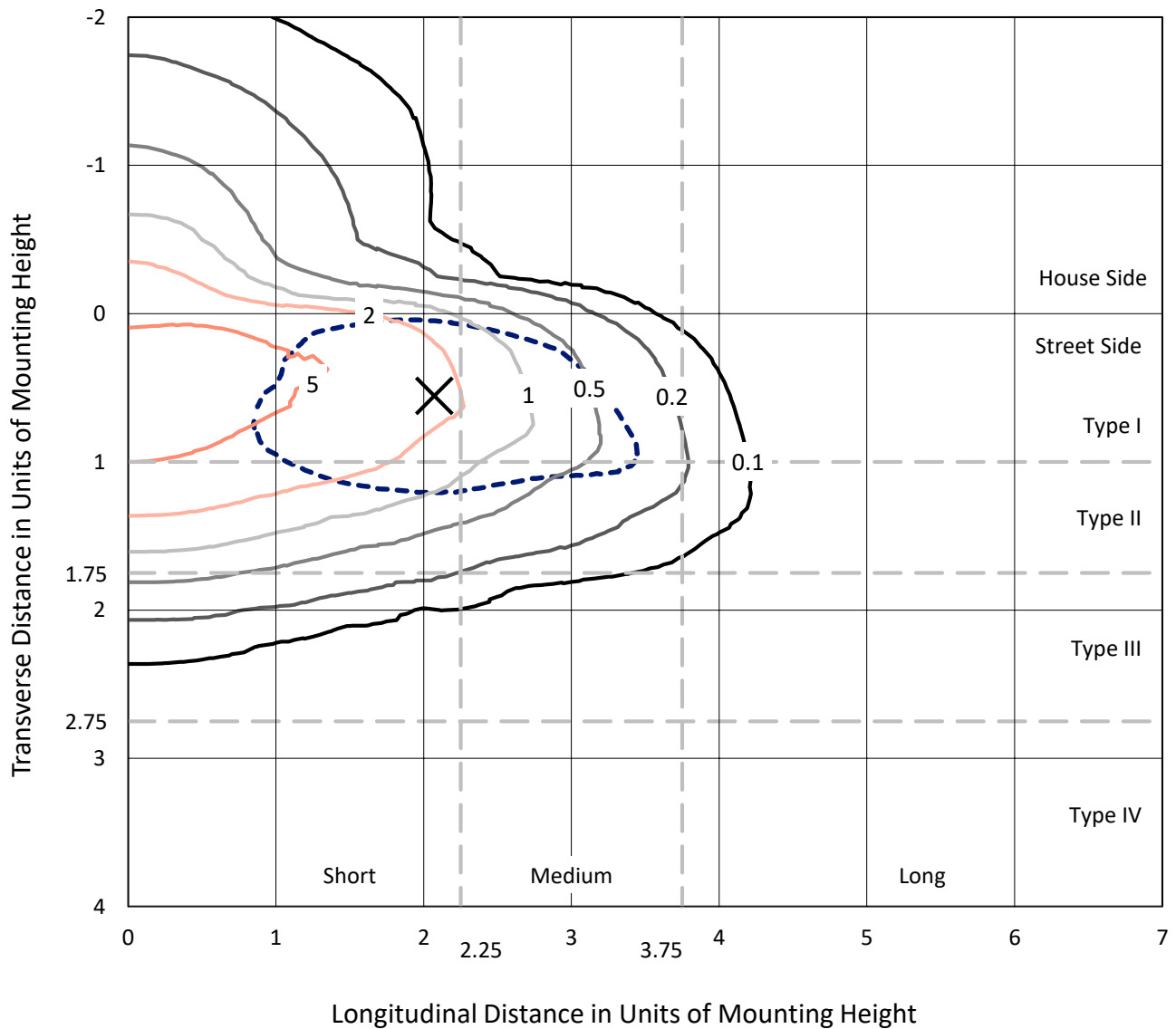


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Iso-Footcandle Lines of Horizontal Illumination

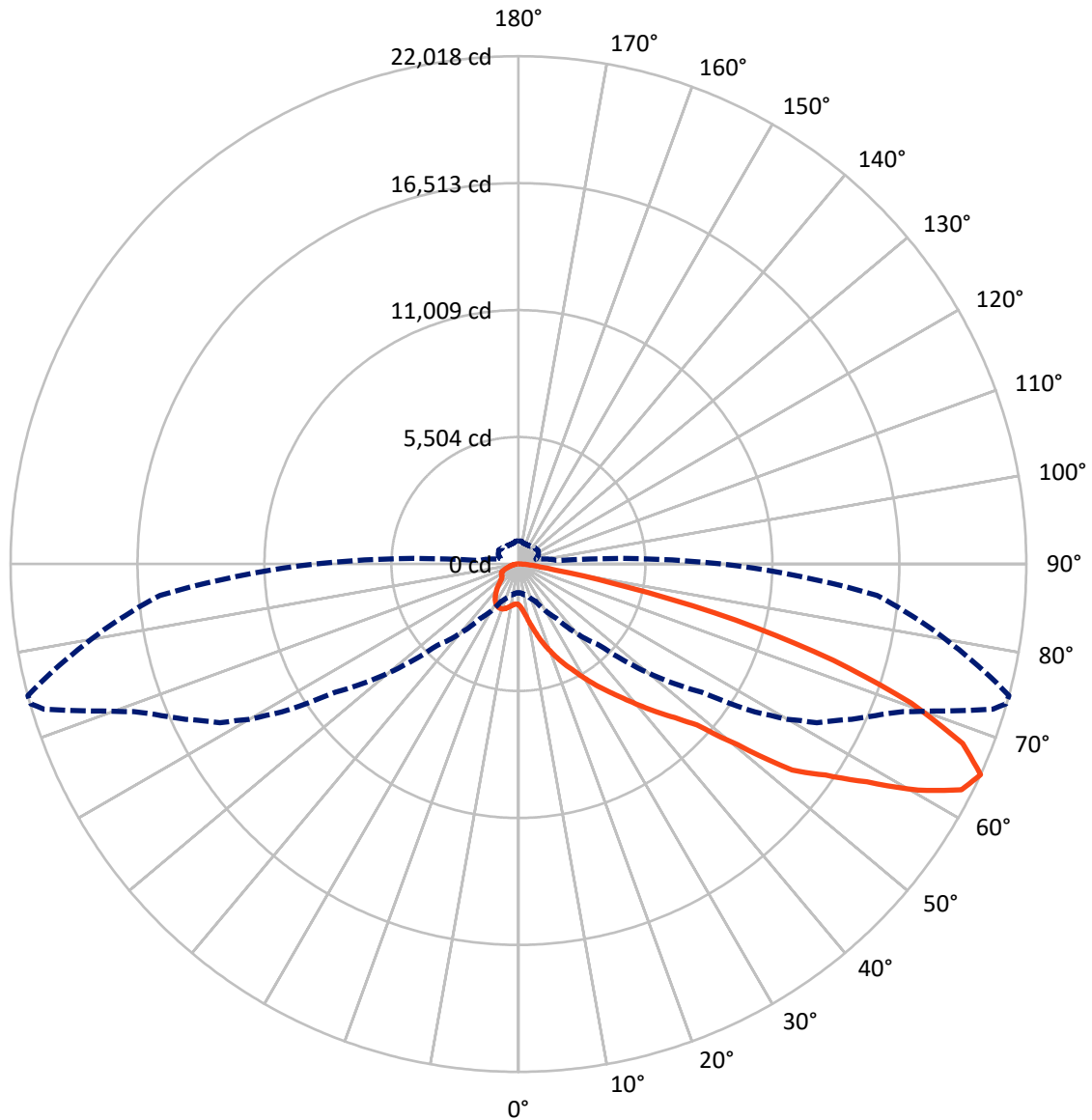
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 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	3354.2	0.0	3354.2
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	18401.3	0.0	18401.3
	% Fixture	84.6	0.0	84.6
Total	Lumens	21755.5	0.0	21755.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.5	1.0
10°-20°	853.9	3.9
20°-30°	1751.9	8.1
30°-40°	2947.4	13.5
40°-50°	4072.5	18.7
50°-60°	5083.7	23.4
60°-70°	4574.8	21.0
70°-80°	1917.7	8.8
80°-90°	335.0	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°	21755.5	100.0
0°-180°	21755.5	100.0



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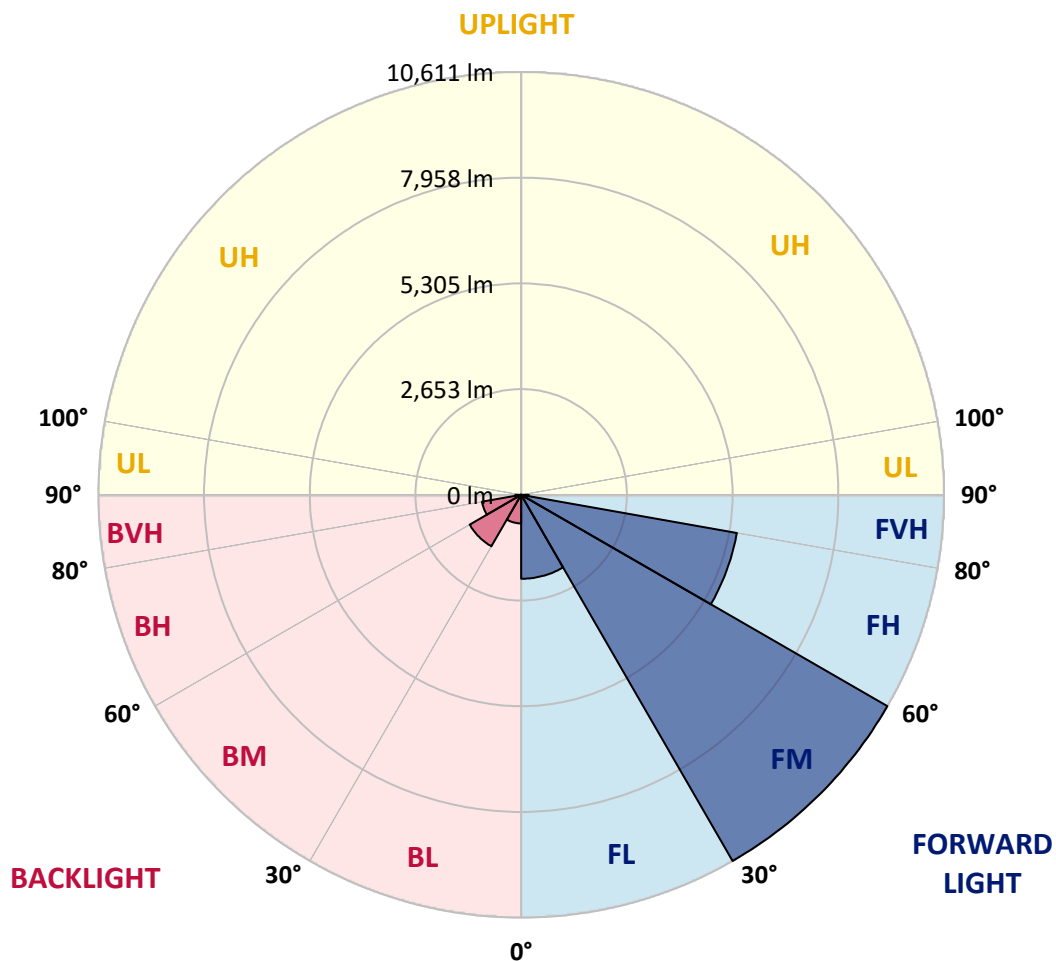
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2107.0	9.7			
FM (30°-60°)	10610.7	48.8			
FH (60°-80°)	5495.4	25.3			G3/7500
FVH (80°-90°)	188.3	0.9			G2/225
BL (0°-30°)	717.3	3.3	B2/1000		
BM (30°-60°)	1493.0	6.9	B2/2500		
BH (60°-80°)	997.2	4.6	B2/1000		G2/1000
BVH (80°-90°)	146.7	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	1768.0	1768.0	1768.0	1768.0	1768.0	1768.0	1768.0	1768.0	1768.0	1768.0	1768.0
2.5°	2244.9	2220.2	2226.3	2185.0	2134.6	2068.7	1995.7	1994.5	1995.7	1988.4	1961.7
5°	3112.8	3083.1	3071.8	2979.0	2843.0	2649.6	2439.4	2416.8	2407.5	2383.8	2329.2
7.5°	3746.2	3729.8	3712.2	3642.2	3518.7	3302.3	3020.2	2971.9	2925.5	2914.1	2852.4
10°	4155.0	4150.9	4113.8	4095.3	4017.9	3830.6	3555.8	3509.3	3458.8	3441.3	3376.5
12.5°	4478.3	4477.3	4459.7	4464.9	4398.0	4262.1	4025.2	3983.1	3946.0	3892.4	3846.1
15°	4701.8	4702.7	4728.6	4757.3	4747.1	4655.5	4433.0	4414.5	4382.6	4345.6	4290.9
17.5°	4885.1	4890.3	4917.0	4969.6	5026.1	5018.9	4842.9	4827.4	4799.6	4749.1	4720.4
20°	5299.0	5318.5	5267.1	5267.1	5273.3	5301.1	5216.6	5204.3	5165.2	5138.3	5115.7
22.5°	5998.3	6020.9	5904.5	5786.1	5669.7	5585.3	5500.9	5516.3	5489.5	5470.9	5457.7
25°	6906.3	6924.0	6735.5	6535.7	6298.8	5990.0	5781.0	5771.7	5757.2	5745.9	5739.7
27.5°	7761.0	7768.4	7590.1	7297.7	7022.8	6578.9	6065.1	6053.8	6036.3	6014.7	5996.1
30°	8492.1	8490.2	8306.8	8027.9	7733.2	7242.1	6496.6	6461.6	6410.0	6351.3	6306.1
32.5°	9125.5	9122.4	8921.5	8632.3	8323.3	7899.1	7087.6	7015.6	6935.3	6821.0	6752.0
35°	9623.9	9621.8	9432.4	9130.6	8776.4	8518.0	7765.2	7676.6	7574.7	7421.3	7315.2
37.5°	9812.4	9812.4	9706.2	9500.4	9187.2	9010.2	8518.0	8410.9	8301.6	8127.7	8008.2
40°	9702.1	9704.2	9726.8	9688.8	9536.3	9400.5	9220.3	9156.5	9062.7	8906.2	8781.7
42.5°	9332.5	9343.8	9494.1	9678.5	9754.6	9733.0	9843.2	9814.4	9748.4	9628.0	9529.1
45°	8863.9	8899.0	9063.7	9411.7	9815.4	10020.4	10365.4	10368.3	10356.0	10291.2	10214.9
47.5°	8220.4	8269.7	8487.0	8957.7	9673.3	10299.3	10895.6	10923.4	10949.1	10907.0	10871.9
50°	7365.7	7424.4	7749.8	8373.8	9384.0	10588.7	11897.5	12023.2	12140.6	12126.1	12149.8
52.5°	6450.3	6519.2	6917.8	7612.9	8886.7	10655.6	12538.1	12742.9	12947.9	13115.8	13293.8
55°	5624.4	5587.4	5985.9	6718.0	8068.9	10354.0	13113.6	13360.9	13589.4	13795.4	14007.5
57.5°	4505.1	4565.8	4965.4	5689.2	6986.7	9502.5	13510.1	13871.5	14200.0	14540.9	14841.5
60°	3293.0	3353.8	3787.3	4522.5	5811.9	8211.0	13207.4	13755.1	14281.3	14803.4	15211.2
62.5°	1988.4	2033.8	2415.7	3116.0	4481.5	6679.8	11858.4	12577.2	13351.5	13975.6	14600.6
65°	1237.8	1263.5	1404.6	1789.7	2878.1	4987.0	9688.8	10472.4	11306.4	12098.4	12748.0
67.5°	1013.3	1022.5	1048.2	1130.6	1580.7	3252.0	7211.2	7905.3	8658.0	9424.1	10147.0
70°	911.3	905.1	905.1	910.3	1013.3	1748.6	4721.3	5173.3	5800.4	6466.7	7127.8
72.5°	822.8	816.6	805.2	789.8	826.9	1066.7	2440.4	2781.3	3233.4	3825.4	4458.7
75°	739.3	731.1	717.7	698.2	723.9	805.2	1171.7	1314.9	1535.4	1850.4	2203.6
77.5°	652.9	642.6	630.3	615.8	648.8	626.1	686.8	738.2	822.8	923.6	1056.4
80°	555.1	545.8	541.7	534.4	573.6	476.8	485.1	517.0	566.3	620.9	682.7
82.5°	434.5	434.5	450.9	454.2	497.3	343.0	362.5	390.3	416.1	444.8	473.6
85°	286.3	288.4	344.0	365.6	392.3	230.7	271.8	281.1	301.7	318.2	330.5
87.5°	89.7	96.7	210.1	232.8	225.6	130.8	166.8	170.9	185.3	196.6	207.0
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):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	1768.0	1768.0	1768.0	1768.0	1768.0	1768.0	1768.0	1768.0	1768.0	1768.0	1768.0
2.5°	1961.7	1949.3	1938.0	1936.9	1928.8	1917.3	1921.5	1904.0	1905.0	1895.8	1885.5
5°	2306.6	2298.4	2257.3	2245.9	2215.0	2195.4	2192.4	2151.1	2146.1	2122.2	2096.6
7.5°	2802.9	2776.1	2718.5	2690.8	2638.2	2599.1	2580.6	2525.9	2499.2	2437.5	2409.6
10°	3322.9	3289.0	3217.9	3178.8	3128.3	3065.6	3031.5	2952.2	2921.4	2864.8	2796.8
12.5°	3805.0	3770.8	3697.8	3667.9	3600.9	3534.0	3497.0	3407.5	3367.2	3276.6	3223.1
15°	4250.7	4216.7	4153.0	4122.1	4055.0	4000.5	3951.0	3862.5	3815.1	3730.8	3660.8
17.5°	4683.3	4647.2	4591.5	4563.7	4498.9	4443.2	4389.7	4306.4	4258.0	4173.5	4110.7
20°	5084.9	5058.0	5017.9	4980.8	4916.0	4865.5	4801.6	4729.5	4659.6	4597.7	4538.1
22.5°	5434.9	5424.7	5381.3	5364.9	5309.3	5266.0	5210.4	5139.5	5089.0	5010.7	4955.1
25°	5736.7	5733.5	5713.0	5707.8	5668.7	5627.5	5615.1	5556.5	5510.2	5441.2	5383.5
27.5°	5996.1	5999.2	5994.1	6008.6	5998.3	5979.7	5980.6	5961.2	5934.4	5876.7	5826.2
30°	6284.5	6268.1	6277.3	6297.8	6304.0	6306.1	6340.1	6351.3	6349.3	6311.2	6286.5
32.5°	6692.3	6653.0	6617.1	6614.0	6634.6	6642.7	6700.5	6730.3	6756.2	6765.3	6769.4
35°	7212.2	7134.0	7058.8	7018.6	6983.7	6992.9	7034.1	7082.4	7139.1	7178.3	7224.6
37.5°	7867.1	7771.3	7638.6	7543.8	7520.2	7468.7	7495.5	7533.5	7589.2	7649.8	7730.3
40°	8661.1	8515.9	8366.5	8241.0	8173.0	8078.3	8077.2	8070.1	8104.0	8160.7	8273.8
42.5°	9425.1	9296.4	9137.9	9006.0	8917.5	8790.9	8765.1	8698.2	8713.6	8763.1	8873.2
45°	10140.7	10034.7	9937.9	9785.5	9710.4	9573.4	9530.2	9450.9	9406.6	9429.2	9539.5
47.5°	10833.7	10765.8	10664.9	10566.1	10508.5	10385.8	10330.2	10273.6	10217.1	10214.9	10330.2
50°	12184.8	12148.8	12029.4	11926.3	11954.1	11803.8	11813.2	11660.7	11729.7	11738.0	11979.9
52.5°	13454.5	13580.1	13668.7	13776.8	13846.8	13860.2	13906.5	13975.6	14059.0	14223.8	14448.2
55°	14181.5	14339.0	14430.7	14513.0	14649.0	14677.9	14755.0	14846.6	14919.8	15105.2	15295.7
57.5°	15045.4	15337.9	15480.0	15610.7	15794.0	15864.1	15992.7	16092.6	16187.4	16406.7	16637.4
60°	15577.8	15934.0	16223.5	16430.4	16660.1	16824.8	17019.5	17176.0	17398.4	17660.9	18004.9
62.5°	15154.5	15677.7	16061.8	16417.1	16729.0	17044.1	17323.3	17615.7	17953.3	18350.8	18884.3
65°	13468.8	14001.3	14659.4	15027.9	15440.8	15926.9	16351.0	16824.8	17285.0	17863.9	18652.5
67.5°	10843.1	11462.0	12201.3	12573.0	13047.7	13590.4	14066.2	14644.9	15182.3	15883.7	16858.9
70°	7815.7	8615.7	9237.7	9626.0	10180.0	10739.1	11198.4	11871.8	12316.7	13035.3	14043.6
72.5°	4948.9	5580.1	6342.2	6831.3	7323.4	7889.9	8359.4	8940.1	9355.0	10010.1	10923.4
75°	2660.8	3126.3	3795.6	4260.0	4787.2	5271.3	5821.0	6210.3	6517.2	7035.2	7776.5
77.5°	1246.9	1530.3	1869.0	2226.3	2583.5	2956.3	3318.8	3634.0	3765.8	4062.2	4499.9
80°	756.8	848.4	947.4	1057.6	1206.9	1327.3	1487.0	1602.2	1610.5	1704.3	1838.1
82.5°	505.6	539.6	569.4	597.3	635.3	665.3	699.2	739.3	755.8	777.5	820.7
85°	344.9	361.5	367.6	385.2	381.1	391.3	404.6	418.2	425.3	424.3	443.9
87.5°	212.1	220.4	224.4	228.6	225.6	221.4	227.6	234.7	236.9	230.7	232.8
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°	1768.0	1768.0	1768.0	1768.0	1768.0	1768.0	1768.0	1768.0	1768.0	1768.0	1768.0
2.5°	1887.5	1878.3	1869.0	1862.7	1860.7	1806.1	1782.4	1767.1	1734.1	1707.3	1685.7
5°	2082.1	2062.6	2047.1	2028.6	2018.3	1880.3	1829.8	1794.9	1737.1	1703.1	1672.3
7.5°	2395.2	2340.5	2308.6	2272.6	2241.7	1992.5	1909.1	1854.6	1774.2	1728.9	1693.9
10°	2750.4	2693.7	2643.4	2587.7	2539.2	2141.9	2020.4	1935.8	1829.8	1771.2	1724.7
12.5°	3146.9	3091.2	3027.4	2956.3	2894.6	2331.3	2162.4	2041.9	1896.9	1818.4	1753.6
15°	3615.4	3517.6	3440.4	3358.0	3285.9	2557.8	2328.2	2161.4	1967.7	1861.7	1775.3
17.5°	4050.9	3948.1	3842.9	3770.8	3687.5	2812.2	2495.0	2283.0	2026.5	1889.6	1779.5
20°	4476.3	4364.0	4273.3	4176.6	4089.1	3075.7	2673.1	2390.0	2064.7	1890.7	1753.6
22.5°	4851.0	4781.0	4680.1	4575.1	4486.6	3339.4	2840.0	2480.6	2079.0	1866.9	1708.3
25°	5277.5	5203.3	5079.6	4991.2	4892.3	3608.2	3003.8	2550.6	2070.9	1822.7	1638.2
27.5°	5732.5	5650.2	5523.5	5430.9	5311.4	3887.2	3154.0	2601.1	2040.0	1750.5	1544.5
30°	6207.2	6132.1	6007.4	5913.7	5793.3	4182.8	3321.9	2635.1	1978.1	1650.6	1435.4
32.5°	6716.9	6654.1	6530.6	6432.8	6304.0	4503.1	3478.4	2645.4	1884.5	1532.2	1320.1
35°	7201.0	7157.6	7053.8	6962.0	6828.1	4805.8	3644.2	2640.3	1773.3	1402.6	1215.0
37.5°	7745.6	7719.9	7668.4	7552.1	7388.3	5216.6	3842.9	2618.6	1637.3	1273.7	1134.7
40°	8326.4	8328.5	8272.9	8193.6	8041.2	5715.0	4079.8	2576.3	1489.0	1160.5	1061.6
42.5°	8941.2	8973.1	8946.3	8889.6	8743.5	6217.4	4363.0	2524.9	1344.9	1050.3	989.6
45°	9645.6	9684.6	9725.8	9642.4	9500.4	6880.7	4735.8	2458.0	1189.4	958.8	940.2
47.5°	10458.0	10519.7	10556.8	10557.9	10415.8	7702.3	5341.2	2417.8	1051.3	896.9	916.5
50°	12172.5	12192.1	12279.7	12432.0	12322.8	9604.3	6398.7	2393.2	957.7	858.8	898.9
52.5°	14642.8	14858.1	15009.4	14999.1	14850.8	10812.2	6981.5	2265.4	902.1	844.3	890.7
55°	15648.8	15917.5	16197.7	16271.9	16156.6	11843.0	7532.5	2137.7	875.3	854.6	893.9
57.5°	16989.6	17442.7	17826.8	17988.4	17821.7	13162.1	8257.4	2070.9	867.0	882.5	913.3
60°	18555.7	19115.9	19620.5	19910.9	19910.9	14677.9	9009.1	2042.9	855.7	923.6	946.4
62.5°	19561.9	20384.6	21146.6	21571.9	21559.5	15733.3	9342.7	1948.2	829.9	952.6	991.5
65°	19566.0	20544.1	21515.2	21993.1	22017.7	15603.6	8791.8	1720.8	782.7	956.7	1037.0
67.5°	17934.9	18978.0	20109.6	20644.0	20767.6	14363.8	7610.8	1414.8	705.3	915.5	1053.4
70°	15147.4	16165.8	17321.2	17846.3	18065.6	12244.5	6130.0	1090.5	606.5	824.9	1019.4
72.5°	11933.5	12932.4	13736.6	14120.7	14291.7	9359.3	4463.9	823.7	497.3	695.1	927.8
75°	8449.0	9198.6	9626.0	9711.3	9738.2	5642.0	2712.3	612.7	409.8	540.6	783.6
77.5°	4768.7	5089.9	5054.9	5093.1	4775.8	2177.9	1181.1	438.6	337.8	410.9	607.6
80°	1861.7	1919.4	1803.1	1767.1	1620.8	810.5	521.0	305.9	269.9	311.0	425.3
82.5°	820.7	847.6	822.8	829.0	792.9	418.2	312.0	221.4	205.9	227.6	282.2
85°	452.0	460.3	458.2	471.6	452.0	166.8	148.3	136.0	144.2	154.5	181.3
87.5°	220.4	222.4	215.2	226.6	219.4	84.4	73.1	77.3	84.4	86.4	86.4
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°	1768.0	1768.0	1768.0	1768.0	1768.0	1768.0
2.5°	1670.2	1662.0	1663.0	1661.0	1656.8	1656.8
5°	1655.8	1647.6	1647.6	1645.5	1640.3	1641.5
7.5°	1670.2	1656.8	1651.8	1644.4	1637.3	1637.3
10°	1686.7	1663.0	1648.6	1636.3	1627.0	1627.0
12.5°	1699.1	1662.0	1638.2	1621.8	1612.5	1612.5
15°	1703.1	1654.8	1621.8	1602.2	1594.0	1593.1
17.5°	1689.8	1627.0	1586.9	1564.2	1553.9	1550.7
20°	1648.6	1576.5	1528.1	1502.3	1488.0	1482.8
22.5°	1586.9	1504.4	1447.8	1420.9	1402.6	1399.4
25°	1500.3	1411.7	1356.1	1330.4	1320.1	1317.0
27.5°	1399.4	1317.0	1269.7	1253.1	1244.0	1242.8
30°	1303.6	1233.6	1198.6	1186.2	1175.0	1172.8
32.5°	1214.1	1169.8	1156.4	1139.0	1112.1	1109.0
35°	1150.2	1146.1	1136.8	1097.6	1064.8	1055.5
37.5°	1111.1	1149.2	1101.9	1024.5	1000.9	998.8
40°	1088.4	1117.2	1035.9	1009.2	1011.2	1009.2
42.5°	1037.0	1066.7	1038.0	1025.7	1033.9	1035.9
45°	985.4	1018.4	1053.4	1045.2	1064.8	1064.8
47.5°	956.7	1006.0	1052.4	1052.4	1081.2	1091.5
50°	923.6	995.7	1035.9	1050.3	1072.9	1064.8
52.5°	921.7	978.3	1012.2	1038.0	1048.2	1039.0
55°	924.6	963.8	988.6	1017.4	1029.7	1030.7
57.5°	928.8	955.5	972.1	985.4	1022.5	1022.5
60°	939.1	948.4	957.7	964.9	1013.3	1014.2
62.5°	955.5	941.2	939.1	946.4	1008.1	1003.9
65°	981.4	930.9	915.5	922.6	1003.0	990.7
67.5°	1016.3	915.5	885.5	890.7	998.8	972.1
70°	1048.2	890.7	848.4	843.4	959.7	912.4
72.5°	1051.3	861.8	797.1	781.5	834.0	788.8
75°	999.9	842.3	740.4	695.1	688.9	682.7
77.5°	901.0	831.0	674.4	603.4	591.1	595.1
80°	753.8	788.8	595.1	510.7	577.7	570.5
82.5°	563.2	696.0	505.6	452.0	450.9	398.5
85°	313.0	542.7	412.0	338.8	235.9	228.6
87.5°	87.6	301.7	288.4	191.5	130.8	136.0
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)