

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: P193133

Luminaire Tested: **GLEON-AF-05-LED-E1-T2R-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193133
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-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19750.8 lumens
Efficiency: N/A
Efficacy: 121.9 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 - G2

Input Watts (W): 162
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

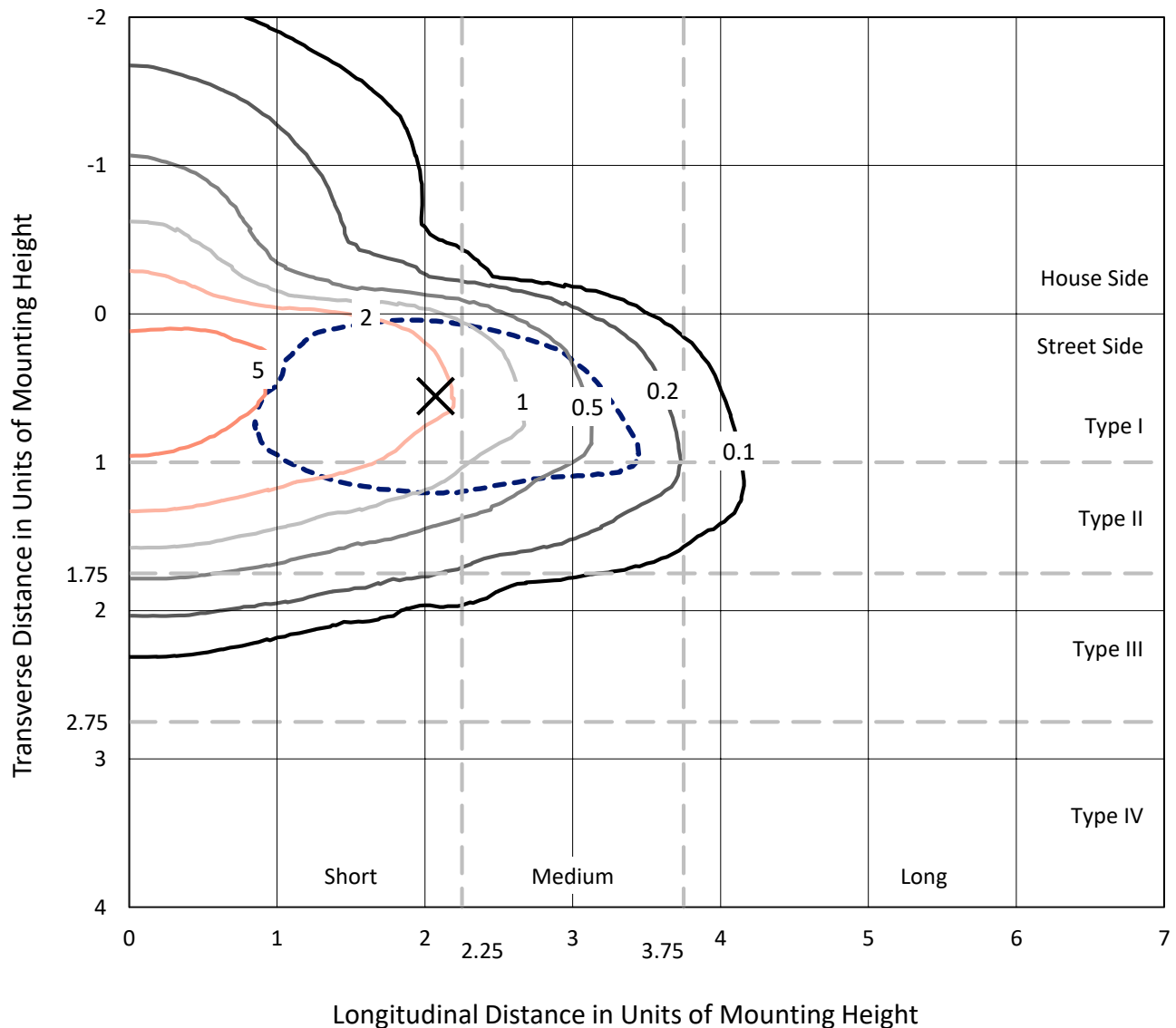


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

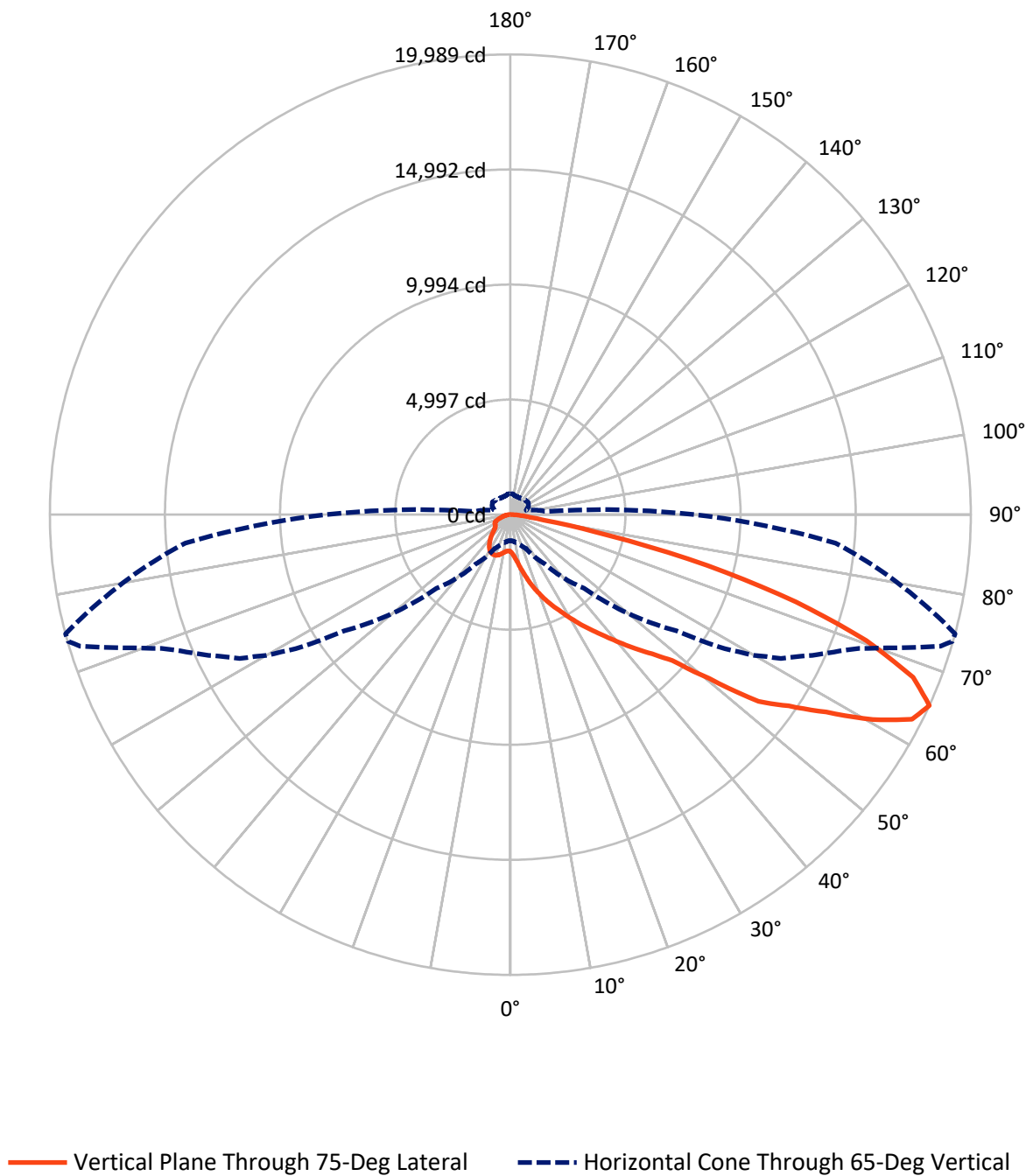


Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3045.1	0.0	3045.1
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	16705.7	0.0	16705.7
	% Fixture	84.6	0.0	84.6
Total	Lumens	19750.8	0.0	19750.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.4	1.0
10°-20°	775.2	3.9
20°-30°	1590.4	8.1
30°-40°	2675.8	13.5
40°-50°	3697.2	18.7
50°-60°	4615.3	23.4
60°-70°	4153.2	21.0
70°-80°	1741.0	8.8
80°-90°	304.2	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°	19750.8	100.0
0°-180°	19750.8	100.0

Coefficient of Utilization



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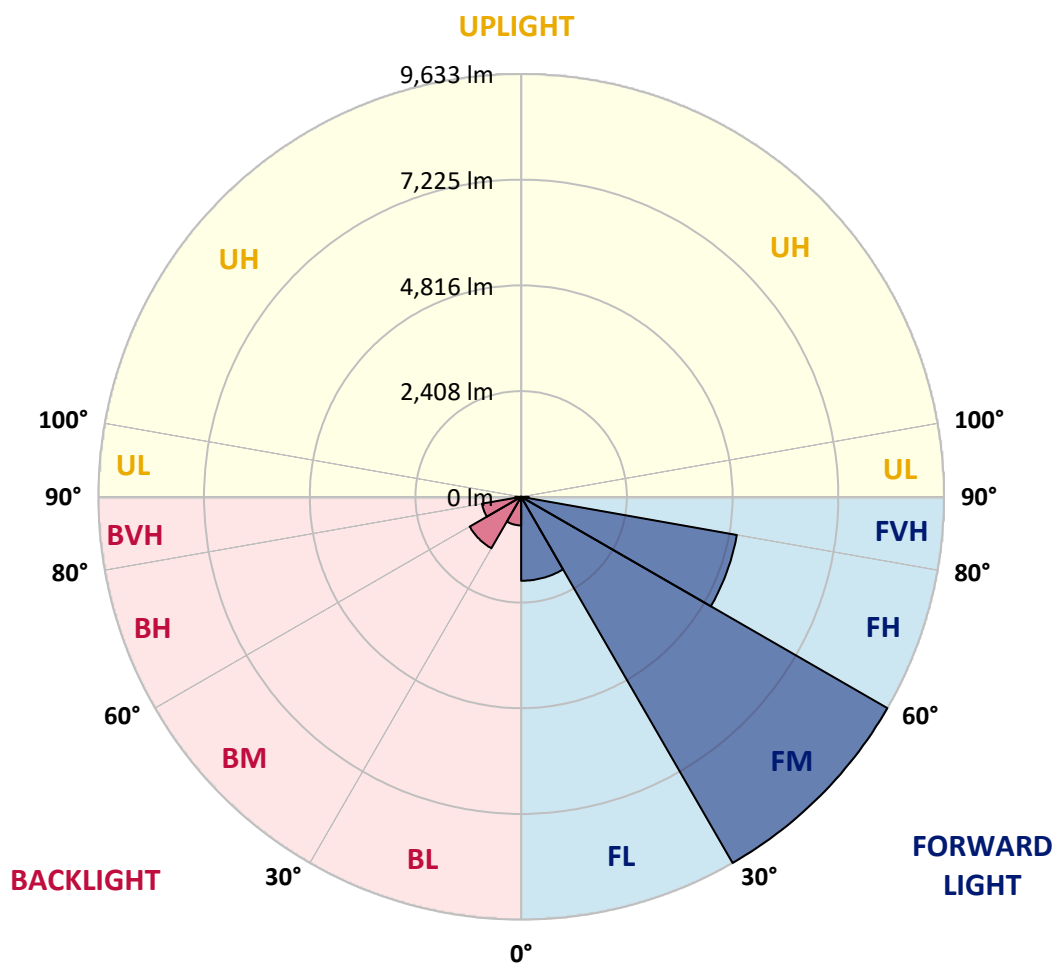
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1912.8	9.7			
FM	(30°-60°)	9632.9	48.8			
FH	(60°-80°)	4989.0	25.3			G2/5000
FVH	(80°-90°)	171.0	0.9			G2/225
BL	(0°-30°)	651.2	3.3	B2/1000		
BM	(30°-60°)	1355.4	6.9	B2/2500		
BH	(60°-80°)	905.3	4.6	B2/1000		G2/1000
BVH	(80°-90°)	133.2	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-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	1605.1	1605.1	1605.1	1605.1	1605.1	1605.1	1605.1	1605.1	1605.1	1605.1	1605.1
2.5°	2038.0	2015.5	2021.2	1983.7	1937.9	1878.0	1811.7	1810.8	1811.7	1805.2	1780.9
5°	2826.0	2798.9	2788.7	2704.5	2581.1	2405.4	2214.6	2194.0	2185.6	2164.2	2114.6
7.5°	3401.0	3386.1	3370.1	3306.5	3194.4	2998.1	2741.9	2697.9	2655.9	2645.6	2589.6
10°	3772.0	3768.4	3734.7	3717.9	3647.7	3477.6	3228.1	3186.0	3140.1	3124.3	3065.4
12.5°	4065.6	4064.7	4048.8	4053.5	3992.8	3869.3	3654.2	3615.9	3582.3	3533.7	3491.6
15°	4268.5	4269.5	4292.8	4319.0	4309.6	4226.4	4024.6	4007.6	3978.6	3945.1	3895.5
17.5°	4435.0	4439.5	4463.9	4511.6	4563.0	4556.4	4396.6	4382.6	4357.4	4311.5	4285.3
20°	4810.6	4828.5	4781.7	4781.7	4787.3	4812.6	4736.0	4724.7	4689.2	4665.0	4644.3
22.5°	5445.5	5466.0	5360.4	5252.8	5147.3	5070.6	4993.9	5008.0	4983.7	4966.8	4954.7
25°	6270.1	6285.9	6114.8	5933.5	5718.4	5438.0	5248.3	5239.8	5226.8	5216.5	5210.8
27.5°	7045.9	7052.4	6890.8	6625.3	6375.6	5972.7	5506.2	5496.0	5480.1	5460.4	5443.7
30°	7709.7	7707.8	7541.4	7288.0	7020.7	6574.7	5898.0	5866.1	5819.3	5766.1	5724.9
32.5°	8284.6	8281.9	8099.5	7836.8	7556.4	7171.2	6434.5	6369.0	6296.2	6192.4	6129.8
35°	8737.0	8735.2	8563.2	8289.3	7967.7	7733.1	7049.6	6969.3	6876.8	6737.5	6641.1
37.5°	8908.1	8908.1	8811.9	8624.9	8340.8	8179.9	7733.1	7635.8	7536.7	7378.8	7270.3
40°	8808.2	8810.0	8830.6	8795.9	8657.6	8534.2	8370.6	8312.7	8227.6	8085.5	7972.3
42.5°	8472.5	8482.8	8619.3	8786.6	8855.8	8836.2	8936.2	8910.0	8850.2	8740.8	8651.0
45°	8047.2	8078.9	8228.6	8544.5	8910.9	9097.0	9410.2	9413.0	9401.8	9342.9	9273.7
47.5°	7462.9	7507.7	7705.0	8132.2	8781.9	9350.3	9891.6	9916.8	9940.2	9901.8	9870.2
50°	6687.0	6740.2	7035.6	7602.2	8519.3	9613.0	10801.3	10915.2	11021.8	11008.8	11030.3
52.5°	5855.9	5918.5	6280.3	6911.3	8067.7	9673.9	11382.6	11568.7	11754.7	11907.2	12068.9
55°	5106.1	5072.5	5434.2	6099.0	7325.4	9399.9	11905.2	12129.6	12337.1	12524.2	12716.6
57.5°	4089.9	4145.1	4507.8	5165.0	6342.9	8626.8	12265.2	12593.3	12891.5	13200.9	13474.0
60°	2989.7	3044.8	3438.4	4105.9	5276.2	7454.4	11990.3	12487.7	12965.4	13439.3	13809.5
62.5°	1805.2	1846.4	2193.2	2828.8	4068.5	6064.3	10765.7	11418.2	12121.2	12687.7	13255.3
65°	1123.7	1147.0	1275.2	1624.8	2612.9	4527.4	8795.9	9507.4	10264.6	10983.5	11573.4
67.5°	919.9	928.2	951.6	1026.5	1435.0	2952.3	6546.7	7176.8	7860.2	8555.6	9211.9
70°	827.3	821.7	821.7	826.4	919.9	1587.3	4286.2	4696.6	5266.0	5870.8	6471.0
72.5°	746.9	741.4	731.1	717.1	750.7	968.5	2215.6	2525.0	2935.5	3473.0	4047.8
75°	671.2	663.8	651.6	633.8	657.2	731.1	1063.8	1193.7	1393.8	1680.0	2000.5
77.5°	592.7	583.3	572.1	559.1	588.9	568.3	623.6	670.3	746.9	838.6	959.2
80°	503.9	495.5	491.7	485.2	520.7	432.8	440.4	469.3	514.2	563.7	619.8
82.5°	394.5	394.5	409.5	412.2	451.6	311.3	329.1	354.3	377.7	403.8	430.1
85°	259.9	261.7	312.3	331.8	356.1	209.4	246.8	255.2	273.9	288.9	300.1
87.5°	81.3	87.9	190.6	211.3	204.8	118.8	151.5	155.1	168.3	178.5	187.9
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):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	1605.1	1605.1	1605.1	1605.1	1605.1	1605.1	1605.1	1605.1	1605.1	1605.1	1605.1
2.5°	1780.9	1769.7	1759.4	1758.4	1751.0	1740.7	1744.5	1728.5	1729.5	1721.1	1711.6
5°	2094.1	2086.6	2049.1	2038.9	2010.8	1993.1	1990.2	1952.9	1948.2	1926.7	1903.3
7.5°	2544.6	2520.4	2467.9	2442.7	2395.1	2359.6	2342.7	2293.2	2268.9	2212.8	2187.6
10°	3016.7	2985.9	2921.4	2885.9	2840.0	2783.1	2752.1	2680.2	2652.2	2600.7	2539.0
12.5°	3454.2	3423.4	3357.0	3329.9	3269.1	3208.4	3174.7	3093.4	3057.0	2974.7	2926.1
15°	3859.0	3828.2	3770.2	3742.2	3681.4	3631.9	3587.0	3506.5	3463.6	3386.9	3323.3
17.5°	4251.8	4218.9	4168.5	4143.2	4084.3	4033.9	3985.2	3909.6	3865.6	3788.9	3731.9
20°	4616.3	4591.9	4555.4	4521.8	4462.9	4417.2	4359.2	4293.8	4230.2	4174.0	4119.8
22.5°	4934.1	4924.8	4885.5	4870.6	4820.1	4780.7	4730.3	4665.8	4620.0	4549.0	4498.5
25°	5208.1	5205.2	5186.5	5181.8	5146.3	5109.0	5097.7	5044.4	5002.3	4939.7	4887.3
27.5°	5443.7	5446.5	5441.7	5454.9	5445.5	5428.6	5429.5	5411.8	5387.5	5335.1	5289.3
30°	5705.4	5690.4	5698.9	5717.5	5723.1	5724.9	5755.9	5766.1	5764.3	5729.7	5707.2
32.5°	6075.6	6040.1	6007.3	6004.6	6023.3	6030.7	6083.0	6110.1	6133.5	6141.9	6145.8
35°	6547.7	6476.6	6408.4	6371.9	6340.1	6348.5	6385.9	6429.9	6481.3	6516.8	6558.9
37.5°	7142.2	7055.3	6934.6	6848.7	6827.2	6780.4	6804.7	6839.3	6889.8	6944.9	7017.9
40°	7863.0	7731.1	7595.6	7481.5	7419.9	7333.9	7332.9	7326.4	7357.2	7408.7	7511.5
42.5°	8556.6	8439.8	8295.8	8176.2	8095.8	7980.8	7957.4	7896.6	7910.7	7955.5	8055.5
45°	9206.4	9110.0	9022.2	8883.9	8815.6	8691.2	8652.0	8580.0	8539.8	8560.4	8660.4
47.5°	9835.5	9773.8	9682.2	9592.4	9540.1	9428.8	9378.4	9326.9	9275.6	9273.7	9378.4
50°	11062.1	11029.2	10920.9	10827.4	10852.6	10716.1	10724.6	10586.2	10648.9	10656.3	10876.0
52.5°	12214.6	12328.7	12409.1	12507.4	12570.9	12583.1	12625.1	12687.7	12763.4	12913.1	13116.8
55°	12874.7	13017.7	13100.9	13175.7	13299.1	13325.3	13395.4	13478.7	13545.0	13713.2	13886.2
57.5°	13659.0	13924.5	14053.6	14172.2	14338.6	14402.2	14519.1	14609.8	14695.8	14894.9	15104.3
60°	14142.3	14465.8	14728.4	14916.4	15124.9	15274.5	15451.1	15593.3	15795.2	16033.6	16345.7
62.5°	13758.2	14232.9	14581.7	14904.3	15187.5	15473.6	15726.9	15992.4	16299.1	16659.9	17144.1
65°	12227.7	12711.1	13308.5	13643.1	14018.0	14459.3	14844.4	15274.5	15692.4	16217.7	16933.8
67.5°	9843.9	10405.8	11077.0	11414.5	11845.5	12338.1	12770.0	13295.3	13783.4	14420.0	15305.2
70°	7095.6	7821.9	8386.5	8738.9	9241.9	9749.5	10166.5	10777.9	11181.7	11834.2	12749.5
72.5°	4492.8	5066.0	5757.8	6201.8	6648.7	7162.8	7589.0	8116.4	8493.0	9087.6	9916.8
75°	2415.6	2838.2	3445.8	3867.4	4346.2	4785.4	5284.7	5638.1	5916.6	6386.9	7060.0
77.5°	1132.2	1389.2	1696.8	2021.2	2345.6	2684.0	3013.1	3299.1	3418.7	3687.9	4085.3
80°	687.1	770.3	860.1	960.1	1095.7	1205.0	1349.9	1454.6	1462.1	1547.2	1668.7
82.5°	459.0	489.8	517.1	542.3	576.8	603.8	634.8	671.2	686.1	705.9	745.0
85°	313.1	328.1	333.8	349.6	346.0	355.2	367.4	379.5	386.1	385.1	402.9
87.5°	192.7	200.1	203.8	207.5	204.8	201.0	206.6	213.2	215.0	209.4	211.3
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°	1605.1	1605.1	1605.1	1605.1	1605.1	1605.1	1605.1	1605.1	1605.1	1605.1	1605.1
2.5°	1713.6	1705.2	1696.8	1691.2	1689.2	1639.8	1618.2	1604.2	1574.3	1550.0	1530.4
5°	1890.3	1872.4	1858.5	1841.7	1832.3	1707.0	1661.2	1629.4	1577.0	1546.2	1518.1
7.5°	2174.5	2124.9	2095.9	2063.3	2035.2	1808.9	1733.2	1683.6	1610.7	1569.6	1537.9
10°	2497.0	2445.5	2399.8	2349.3	2305.4	1944.5	1834.1	1757.6	1661.2	1608.0	1565.9
12.5°	2856.9	2806.5	2748.4	2684.0	2627.9	2116.5	1963.2	1853.8	1722.0	1650.9	1592.0
15°	3282.2	3193.4	3123.2	3048.6	2983.1	2322.2	2113.7	1962.2	1786.5	1690.2	1611.7
17.5°	3677.6	3584.2	3488.8	3423.4	3347.7	2553.1	2265.2	2072.5	1839.8	1715.5	1615.4
20°	4063.8	3961.8	3879.6	3791.8	3712.3	2792.3	2426.8	2169.8	1874.4	1716.4	1592.0
22.5°	4404.0	4340.6	4248.9	4153.5	4073.0	3031.7	2578.3	2252.1	1887.5	1694.8	1550.9
25°	4791.1	4723.9	4611.7	4531.2	4441.5	3275.7	2726.9	2315.6	1880.1	1654.6	1487.3
27.5°	5204.2	5129.5	5014.6	4930.4	4821.9	3529.1	2863.4	2361.4	1852.0	1589.2	1402.3
30°	5635.3	5567.0	5453.9	5368.8	5259.4	3797.3	3015.8	2392.2	1795.7	1498.6	1303.1
32.5°	6098.0	6041.0	5928.9	5840.0	5723.1	4088.1	3157.9	2401.6	1710.8	1391.1	1198.5
35°	6537.4	6498.0	6403.6	6320.5	6199.0	4362.9	3308.4	2396.9	1609.8	1273.3	1103.1
37.5°	7031.9	7008.6	6961.8	6856.1	6707.5	4736.0	3488.8	2377.3	1486.4	1156.4	1030.2
40°	7559.2	7561.1	7510.6	7438.6	7300.1	5188.4	3703.9	2339.0	1351.7	1053.6	963.7
42.5°	8117.3	8146.3	8121.9	8070.6	7937.8	5644.6	3960.9	2292.3	1220.9	953.5	898.4
45°	8756.7	8792.2	8829.6	8753.9	8624.9	6246.7	4299.4	2231.5	1079.7	870.4	853.6
47.5°	9494.3	9550.4	9584.0	9585.0	9456.0	6992.6	4849.0	2195.0	954.5	814.2	832.0
50°	11050.8	11068.6	11148.0	11286.4	11187.3	8719.3	5809.1	2172.6	869.3	779.7	816.1
52.5°	13293.5	13488.9	13626.3	13617.0	13482.4	9815.9	6338.2	2056.7	818.9	766.6	808.6
55°	14206.9	14450.8	14705.1	14772.4	14667.7	10751.6	6838.4	1940.8	794.7	776.0	811.5
57.5°	15424.0	15835.4	16184.0	16330.9	16179.3	11949.2	7496.5	1880.1	787.1	801.2	829.2
60°	16845.9	17354.5	17812.5	18076.2	18076.2	13325.3	8178.9	1854.7	776.9	838.6	859.1
62.5°	17759.2	18506.3	19198.0	19584.0	19572.8	14283.5	8481.9	1768.7	753.5	864.7	900.3
65°	17763.1	18651.1	19532.8	19966.5	19988.9	14165.7	7981.7	1562.1	710.5	868.5	941.4
67.5°	16282.3	17229.2	18256.5	18741.8	18854.0	13040.2	6909.4	1284.5	640.4	831.0	956.3
70°	13751.6	14676.1	15725.0	16201.8	16400.9	11116.2	5565.1	990.0	550.6	748.9	925.5
72.5°	10833.9	11740.7	12470.9	12819.5	12974.7	8496.8	4052.5	747.9	451.6	631.0	842.3
75°	7670.4	8351.0	8738.9	8816.5	8840.8	5122.0	2462.3	556.2	372.0	490.8	711.4
77.5°	4329.3	4620.9	4589.1	4623.8	4335.9	1977.1	1072.3	398.2	306.6	373.0	551.5
80°	1690.2	1742.5	1636.9	1604.2	1471.4	735.8	473.0	277.6	245.0	282.3	386.1
82.5°	745.0	769.4	746.9	752.6	719.8	379.5	283.3	201.0	187.0	206.6	256.1
85°	410.4	417.9	416.1	428.2	410.4	151.5	134.6	123.4	130.9	140.2	164.6
87.5°	200.1	201.9	195.3	205.6	199.1	76.7	66.3	70.2	76.7	78.5	78.5
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):

	135°	145°	155°	165°	175°	180°
0°	1605.1	1605.1	1605.1	1605.1	1605.1	1605.1
2.5°	1516.3	1508.9	1509.8	1507.9	1504.2	1504.2
5°	1503.2	1495.8	1495.8	1493.9	1489.2	1490.2
7.5°	1516.3	1504.2	1499.5	1492.9	1486.4	1486.4
10°	1531.3	1509.8	1496.7	1485.5	1477.0	1477.0
12.5°	1542.5	1508.9	1487.3	1472.4	1464.0	1464.0
15°	1546.2	1502.4	1472.4	1454.6	1447.1	1446.1
17.5°	1534.1	1477.0	1440.6	1420.1	1410.6	1408.0
20°	1496.7	1431.3	1387.3	1364.0	1350.9	1346.2
22.5°	1440.6	1365.8	1314.4	1290.2	1273.3	1270.4
25°	1362.0	1281.7	1231.3	1207.9	1198.5	1195.7
27.5°	1270.4	1195.7	1152.6	1137.7	1129.3	1128.3
30°	1183.5	1119.9	1088.1	1077.0	1066.7	1064.8
32.5°	1102.2	1062.0	1049.9	1033.9	1009.7	1006.9
35°	1044.2	1040.4	1032.1	996.6	966.6	958.2
37.5°	1008.7	1043.3	1000.3	930.2	908.7	906.9
40°	988.1	1014.3	940.5	916.1	918.0	916.1
42.5°	941.4	968.5	942.4	931.1	938.5	940.5
45°	894.7	924.6	956.3	948.9	966.6	966.6
47.5°	868.5	913.3	955.4	955.4	981.5	991.0
50°	838.6	904.0	940.5	953.5	974.1	966.6
52.5°	836.7	888.1	919.0	942.4	951.6	943.2
55°	839.4	875.0	897.4	923.7	934.8	935.8
57.5°	843.3	867.5	882.5	894.7	928.2	928.2
60°	852.6	861.0	869.3	875.9	919.9	920.8
62.5°	867.5	854.4	852.6	859.1	915.3	911.4
65°	890.9	845.1	831.0	837.6	910.5	899.3
67.5°	922.7	831.0	803.9	808.6	906.9	882.5
70°	951.6	808.6	770.3	765.7	871.3	828.3
72.5°	954.5	782.6	723.7	709.5	757.2	716.0
75°	907.7	764.7	672.2	631.0	625.4	619.8
77.5°	818.1	754.4	612.3	547.8	536.6	540.3
80°	684.3	716.0	540.3	463.7	524.5	517.9
82.5°	511.4	631.9	459.0	410.4	409.5	361.7
85°	284.2	492.6	373.8	307.6	214.0	207.5
87.5°	79.4	273.9	261.7	173.8	118.8	123.4
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)