

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: P301712

Luminaire Tested: **GLNA-AF-06-LED-E1-T2R-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P301712
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P194759)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-06-LED-E1-T2R-8030-600
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type II
Roadway OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19868.3 lumens
Efficiency: N/A
Efficacy: 102.9 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 - G3

Input Watts (W): 193
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



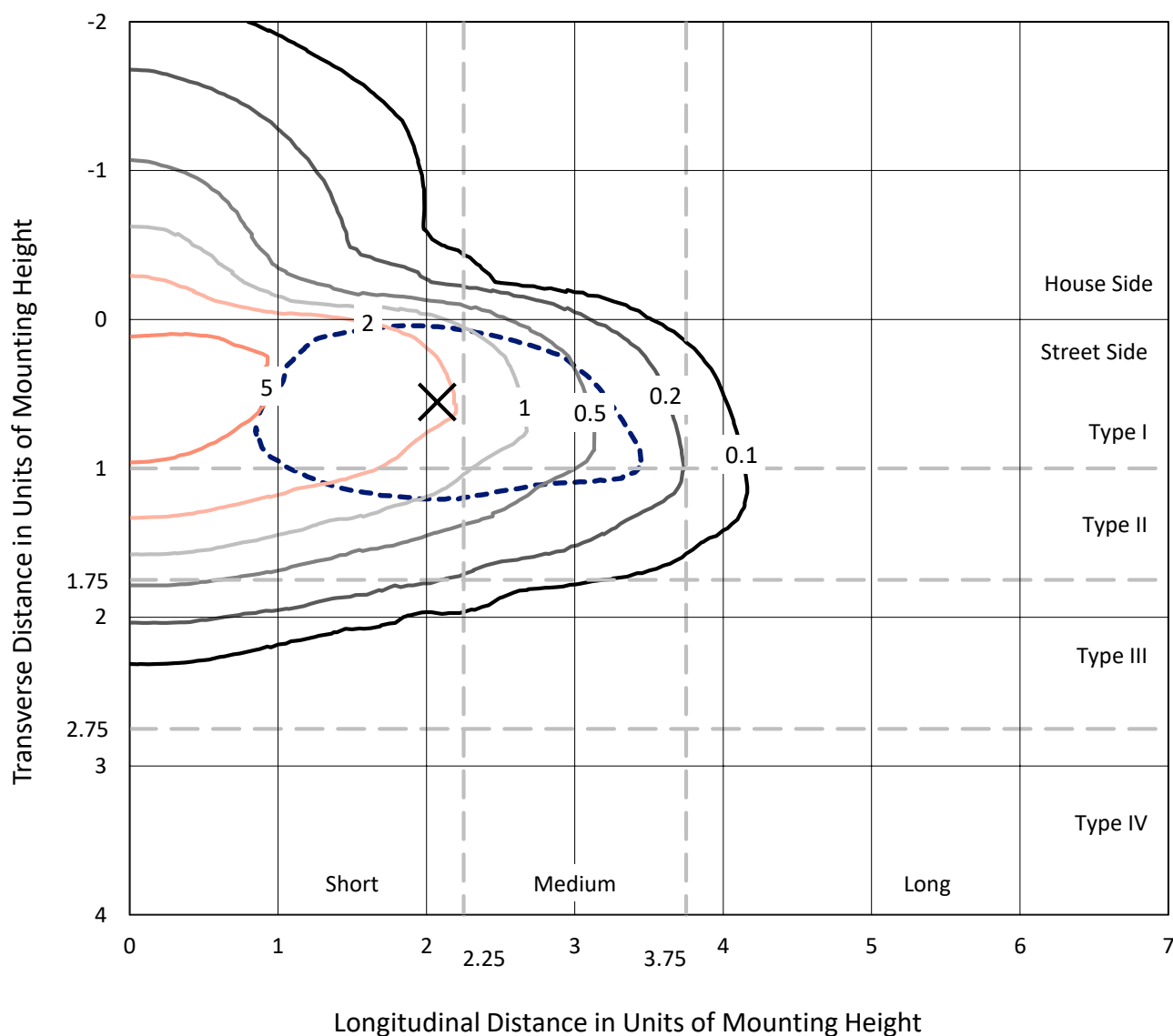
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

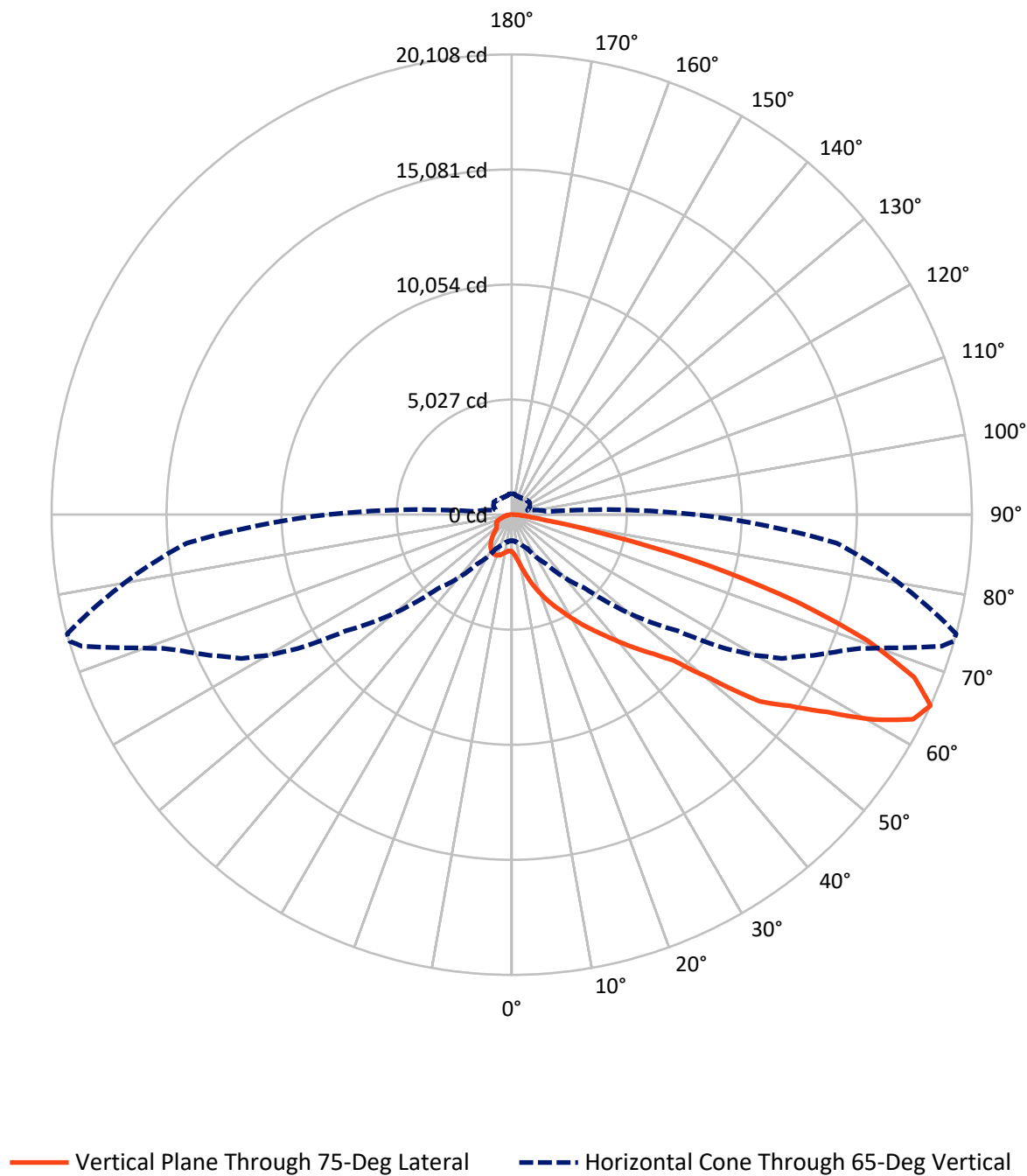


Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3063.2	0.0	3063.2
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	16805.1	0.0	16805.1
	% Fixture	84.6	0.0	84.6
Total	Lumens	19868.3	0.0	19868.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.6	1.0
10°-20°	779.8	3.9
20°-30°	1599.9	8.1
30°-40°	2691.8	13.5
40°-50°	3719.3	18.7
50°-60°	4642.7	23.4
60°-70°	4178.0	21.0
70°-80°	1751.4	8.8
80°-90°	306.0	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°	19868.3	100.0
0°-180°	19868.3	100.0

Coefficient of Utilization



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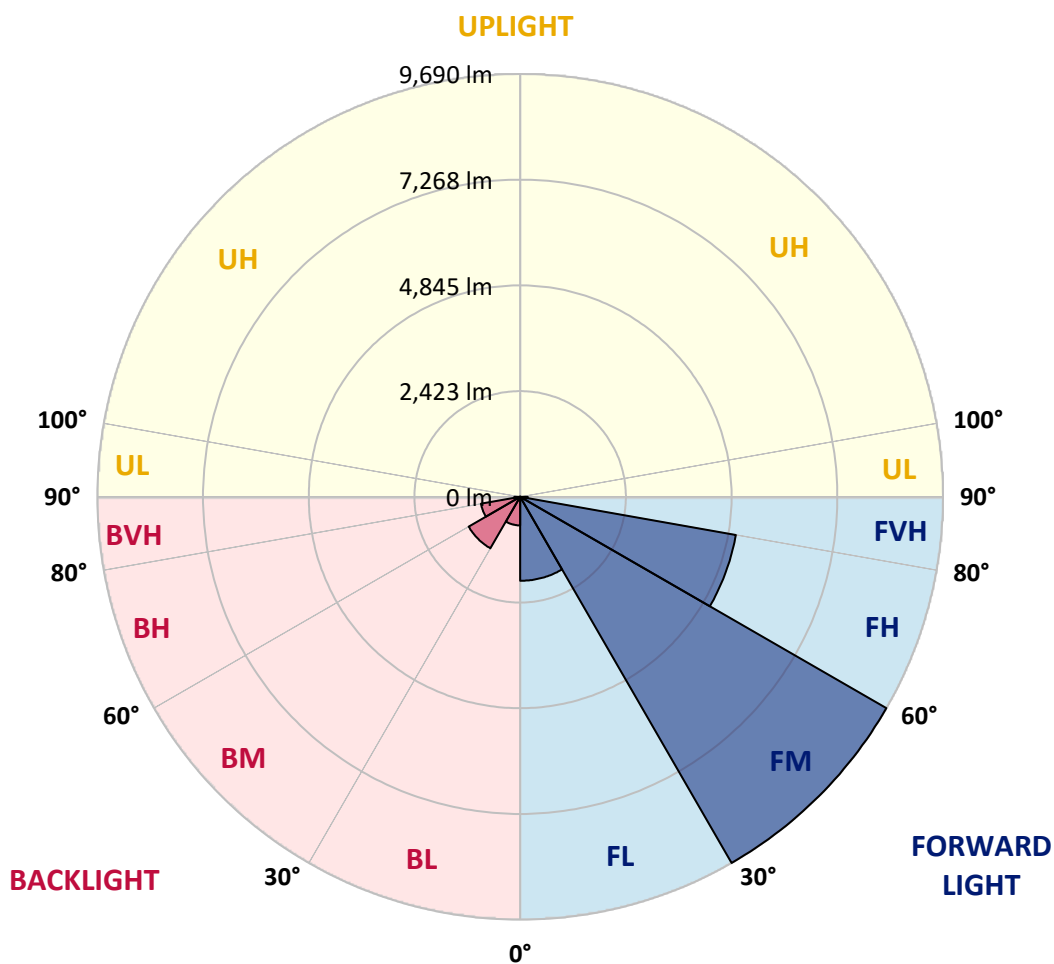
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1924.2	9.7			
FM	(30°-60°)	9690.3	48.8			
FH	(60°-80°)	5018.7	25.3			G3/7500
FVH	(80°-90°)	172.0	0.9			G2/225
BL	(0°-30°)	655.1	3.3	B2/1000		
BM	(30°-60°)	1363.5	6.9	B2/2500		
BH	(60°-80°)	910.7	4.6	B2/1000		G2/1000
BVH	(80°-90°)	134.0	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°	1614.7	1614.7	1614.7	1614.7	1614.7	1614.7	1614.7	1614.7	1614.7	1614.7	1614.7
2.5°	2050.2	2027.6	2033.1	1995.5	1949.5	1889.2	1822.5	1821.7	1822.5	1815.8	1791.6
5°	2842.7	2815.7	2805.3	2720.5	2596.4	2419.8	2227.9	2207.2	2198.6	2177.1	2127.2
7.5°	3421.3	3406.2	3390.1	3326.2	3213.5	3016.0	2758.2	2714.1	2671.7	2661.4	2605.0
10°	3794.6	3790.7	3756.9	3739.9	3669.6	3498.3	3247.2	3204.8	3158.8	3142.9	3083.5
12.5°	4089.7	4088.9	4073.0	4077.7	4016.3	3892.5	3676.0	3637.5	3603.7	3554.7	3512.5
15°	4293.9	4294.8	4318.5	4344.7	4335.2	4251.5	4048.4	4031.4	4002.4	3968.6	3918.7
17.5°	4461.3	4466.0	4490.3	4538.3	4590.2	4583.5	4422.8	4408.6	4383.2	4337.2	4310.9
20°	4839.3	4857.2	4810.3	4810.3	4815.9	4841.3	4764.0	4752.8	4717.1	4692.6	4671.9
22.5°	5477.9	5498.5	5392.2	5284.3	5178.0	5100.7	5023.7	5037.7	5013.4	4996.4	4984.1
25°	6307.3	6323.4	6151.3	5968.9	5752.4	5470.3	5279.5	5270.9	5257.8	5247.4	5241.9
27.5°	7087.8	7094.5	6931.9	6664.6	6413.5	6008.2	5539.0	5528.6	5512.7	5492.9	5475.9
30°	7755.7	7753.7	7586.3	7331.4	7062.4	6613.8	5933.2	5901.1	5853.9	5800.4	5759.1
32.5°	8334.0	8331.2	8147.6	7883.4	7601.4	7213.9	6473.0	6407.1	6333.8	6229.1	6166.4
35°	8789.0	8787.3	8614.1	8338.7	8015.1	7779.1	7091.7	7010.8	6917.6	6777.6	6680.8
37.5°	8961.1	8961.1	8864.3	8676.3	8390.3	8228.5	7779.1	7681.2	7581.6	7422.6	7313.5
40°	8860.4	8862.4	8883.0	8848.4	8709.2	8585.1	8420.5	8362.2	8276.5	8133.7	8019.9
42.5°	8522.8	8533.2	8670.7	8838.9	8908.4	8888.9	8989.3	8963.1	8902.8	8792.9	8702.5
45°	8094.9	8127.0	8277.4	8595.4	8963.9	9151.1	9466.0	9468.8	9457.7	9398.5	9328.8
47.5°	7507.4	7552.3	7750.9	8180.5	8834.2	9406.1	9950.3	9975.7	9999.4	9960.9	9928.9
50°	6726.8	6780.4	7077.5	7647.4	8570.0	9670.3	10865.4	10980.3	11087.4	11074.3	11095.8
52.5°	5890.8	5953.8	6317.6	6952.5	8115.8	9731.3	11450.4	11637.6	11824.7	11977.9	12140.5
55°	5136.4	5102.7	5466.7	6135.1	7369.0	9455.7	11976.2	12201.9	12410.6	12598.6	12792.5
57.5°	4114.3	4169.8	4534.7	5195.8	6380.6	8678.0	12338.1	12668.4	12968.3	13279.6	13554.1
60°	3007.3	3062.8	3458.7	4130.2	5307.7	7498.7	12061.6	12562.1	13042.5	13519.2	13891.6
62.5°	1815.8	1857.4	2206.1	2845.8	4092.8	6100.5	10829.7	11486.1	12193.3	12763.2	13334.0
65°	1130.4	1153.8	1282.7	1634.5	2628.5	4554.5	8848.4	9564.0	10325.6	11048.9	11642.3
67.5°	925.3	933.7	957.4	1032.5	1443.4	2969.9	6585.7	7219.5	7906.9	8606.5	9266.9
70°	832.2	826.6	826.6	831.3	925.3	1596.8	4311.8	4724.7	5297.4	5905.8	6509.5
72.5°	751.3	745.7	735.4	721.4	755.2	974.2	2228.7	2540.0	2952.9	3493.6	4071.9
75°	675.1	667.6	655.6	637.7	661.2	735.4	1070.1	1201.0	1402.1	1690.0	2012.5
77.5°	596.2	586.7	575.5	562.4	592.5	571.9	627.1	674.3	751.3	843.6	965.0
80°	506.9	498.5	494.6	488.2	523.9	435.5	443.0	472.0	517.2	567.1	623.5
82.5°	397.0	397.0	411.8	414.8	454.2	313.3	331.1	356.5	380.0	406.2	432.7
85°	261.4	263.3	314.1	333.9	358.2	210.6	248.3	256.7	275.6	290.7	301.8
87.5°	81.7	88.4	191.9	212.6	205.9	119.4	152.3	156.2	169.3	179.7	189.1
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°	1614.7	1614.7	1614.7	1614.7	1614.7	1614.7	1614.7	1614.7	1614.7	1614.7	1614.7
2.5°	1791.6	1780.1	1769.8	1769.0	1761.4	1751.1	1754.7	1738.8	1739.7	1731.3	1721.8
5°	2106.5	2099.0	2061.3	2051.0	2022.8	2005.0	2002.2	1964.5	1959.8	1938.3	1914.6
7.5°	2559.8	2535.3	2482.6	2457.2	2409.2	2373.5	2356.7	2306.8	2282.3	2225.9	2200.5
10°	3034.6	3003.7	2938.7	2903.0	2856.9	2799.5	2768.5	2696.3	2667.8	2616.2	2554.3
12.5°	3474.9	3443.9	3376.9	3349.6	3288.5	3227.4	3193.7	3111.9	3075.1	2992.2	2943.4
15°	3881.9	3850.9	3792.6	3764.4	3703.3	3653.4	3608.2	3527.6	3484.3	3407.1	3343.2
17.5°	4276.9	4244.0	4193.2	4167.8	4108.7	4057.9	4009.1	3932.7	3888.6	3811.6	3754.1
20°	4643.8	4619.2	4582.7	4548.6	4489.5	4443.5	4385.1	4319.3	4255.4	4198.8	4144.4
22.5°	4963.5	4954.0	4914.6	4899.6	4848.8	4809.2	4758.4	4693.7	4647.4	4576.0	4525.2
25°	5239.1	5236.3	5217.3	5212.6	5176.9	5139.2	5128.0	5074.5	5032.1	4969.0	4916.6
27.5°	5475.9	5478.7	5474.3	5487.4	5477.9	5460.9	5462.0	5444.1	5419.6	5366.8	5320.8
30°	5739.3	5724.2	5732.9	5751.5	5757.1	5759.1	5790.0	5800.4	5798.7	5763.8	5741.2
32.5°	6111.7	6076.0	6043.1	6040.3	6059.0	6066.5	6119.2	6146.6	6170.0	6178.4	6182.3
35°	6586.5	6515.1	6446.5	6409.9	6377.8	6386.2	6423.9	6468.2	6519.8	6555.5	6597.9
37.5°	7184.6	7097.3	6976.0	6889.5	6867.7	6820.8	6845.1	6880.0	6930.8	6986.3	7059.6
40°	7909.7	7777.2	7640.7	7526.1	7464.2	7377.4	7376.6	7369.9	7401.1	7452.7	7556.2
42.5°	8607.7	8489.9	8345.1	8224.9	8144.0	8028.2	8004.8	7943.7	7957.7	8002.8	8103.6
45°	9261.0	9164.2	9075.8	8936.8	8867.9	8743.0	8703.3	8631.1	8590.6	8611.3	8712.0
47.5°	9894.0	9832.1	9739.7	9649.6	9596.9	9485.0	9434.2	9382.4	9330.7	9328.8	9434.2
50°	11127.9	11095.0	10985.9	10891.9	10917.3	10780.0	10788.4	10649.2	10712.2	10719.7	10940.7
52.5°	12287.3	12402.2	12483.1	12581.6	12645.8	12658.0	12700.2	12763.2	12839.4	12989.7	13194.8
55°	12951.2	13095.2	13178.9	13254.2	13378.3	13404.6	13475.1	13558.8	13625.5	13794.8	13968.9
57.5°	13740.4	14007.4	14137.1	14256.5	14423.9	14487.8	14605.5	14696.8	14783.2	14983.5	15194.2
60°	14226.4	14552.0	14816.2	15005.0	15214.8	15365.5	15543.2	15686.0	15889.1	16129.0	16443.1
62.5°	13840.0	14317.6	14668.6	14993.0	15277.9	15565.8	15820.5	16087.7	16396.0	16758.9	17246.3
65°	12300.7	12786.6	13387.5	13724.3	14101.4	14545.3	14932.8	15365.5	15785.6	16314.2	17034.5
67.5°	9902.6	10467.6	11142.9	11482.5	11916.0	12411.4	12846.1	13374.4	13865.4	14505.7	15396.4
70°	7137.8	7868.4	8436.4	8790.9	9297.0	9807.5	10227.1	10841.9	11248.1	11904.5	12825.4
72.5°	4519.6	5096.0	5792.0	6238.6	6688.1	7205.5	7634.3	8164.6	8543.5	9141.6	9975.7
75°	2430.1	2855.0	3466.2	3890.5	4372.0	4813.9	5316.1	5671.5	5951.8	6425.0	7102.0
77.5°	1138.8	1397.4	1706.7	2033.1	2359.5	2699.9	3031.0	3318.6	3439.2	3710.0	4109.5
80°	691.3	775.0	865.1	965.8	1102.2	1212.1	1358.0	1463.2	1470.7	1556.4	1678.6
82.5°	461.7	492.7	520.0	545.4	580.3	607.6	638.6	675.1	690.2	710.0	749.6
85°	315.0	330.0	335.6	351.8	347.9	357.4	369.6	381.9	388.3	387.5	405.3
87.5°	193.6	201.1	205.0	208.7	205.9	202.3	207.8	214.5	216.2	210.6	212.6
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°	1614.7	1614.7	1614.7	1614.7	1614.7	1614.7	1614.7	1614.7	1614.7	1614.7	1614.7
2.5°	1723.8	1715.4	1706.7	1701.2	1699.2	1649.6	1627.8	1613.8	1583.7	1559.2	1539.4
5°	1901.5	1883.6	1869.7	1852.6	1843.2	1717.1	1671.0	1639.2	1586.5	1555.5	1527.1
7.5°	2187.4	2137.5	2108.5	2075.5	2047.4	1819.7	1743.6	1693.6	1620.3	1579.0	1546.9
10°	2511.9	2460.2	2413.9	2363.2	2319.1	1956.1	1845.1	1767.8	1671.0	1617.5	1575.1
12.5°	2874.0	2823.2	2764.9	2699.9	2643.5	2129.1	1974.8	1864.9	1732.1	1660.7	1601.6
15°	3301.9	3212.4	3141.8	3066.7	3000.9	2336.1	2126.3	1974.0	1797.1	1700.3	1621.4
17.5°	3699.4	3605.4	3509.7	3443.9	3367.7	2568.2	2278.6	2084.8	1850.7	1725.7	1625.0
20°	4088.0	3985.4	3902.8	3814.4	3734.3	2809.0	2441.3	2182.7	1885.6	1726.6	1601.6
22.5°	4430.3	4366.2	4274.1	4178.2	4097.2	3049.7	2593.6	2265.5	1898.7	1705.1	1560.0
25°	4819.5	4752.0	4639.0	4558.1	4468.0	3295.2	2743.1	2329.4	1891.1	1664.6	1496.1
27.5°	5235.2	5160.1	5044.4	4959.8	4850.7	3549.9	2880.4	2375.4	1863.0	1598.8	1410.5
30°	5668.7	5600.1	5486.2	5400.9	5290.7	3820.0	3033.8	2406.4	1806.6	1507.6	1310.9
32.5°	6134.3	6076.8	5964.1	5874.9	5757.1	4112.3	3176.6	2415.9	1721.0	1399.3	1205.7
35°	6576.2	6536.9	6441.7	6358.0	6235.8	4388.8	3328.1	2411.1	1619.4	1280.8	1109.7
37.5°	7073.9	7050.2	7003.3	6897.0	6747.5	4764.0	3509.7	2391.3	1495.3	1163.3	1036.4
40°	7604.2	7606.1	7555.4	7482.8	7343.6	5219.3	3725.9	2352.8	1359.7	1059.8	969.4
42.5°	8165.5	8194.8	8170.2	8118.6	7985.0	5678.2	3984.5	2306.0	1228.3	959.1	903.9
45°	8808.8	8844.5	8882.2	8806.0	8676.3	6283.8	4324.9	2244.9	1086.0	875.4	858.7
47.5°	9550.9	9607.2	9641.0	9642.1	9512.4	7034.3	4877.8	2208.1	960.2	819.1	836.9
50°	11116.4	11134.6	11214.4	11353.6	11254.0	8771.1	5843.6	2185.5	874.6	784.2	821.0
52.5°	13372.5	13569.2	13707.5	13698.0	13562.5	9874.2	6375.9	2068.8	823.8	771.1	813.5
55°	14291.4	14536.9	14792.7	14860.2	14755.1	10815.7	6879.1	1952.2	799.3	780.6	816.3
57.5°	15515.8	15929.5	16280.5	16428.1	16275.7	12020.3	7541.1	1891.1	791.7	805.9	834.1
60°	16946.1	17457.7	17918.6	18183.6	18183.6	13404.6	8227.7	1865.8	781.4	843.6	864.3
62.5°	17865.0	18616.3	19312.3	19700.7	19689.2	14368.4	8532.3	1779.3	758.0	869.8	905.5
65°	17868.7	18762.2	19648.8	20085.4	20107.7	14250.1	8029.3	1571.4	714.7	873.7	947.1
67.5°	16379.2	17331.6	18365.2	18853.4	18966.1	13117.8	6950.6	1292.2	644.1	836.1	962.2
70°	13833.3	14763.4	15818.5	16298.3	16498.6	11182.3	5598.1	995.9	554.0	753.2	930.9
72.5°	10898.3	11810.5	12545.1	12895.7	13051.9	8547.4	4076.6	752.4	454.2	634.7	847.2
75°	7716.1	8400.7	8790.9	8869.1	8893.3	5152.6	2477.0	559.6	374.4	493.8	715.6
77.5°	4355.0	4648.5	4616.4	4651.3	4361.7	1989.1	1078.8	400.6	308.5	375.2	554.9
80°	1700.3	1753.1	1646.8	1613.8	1480.2	740.1	475.9	279.3	246.3	284.0	388.3
82.5°	749.6	773.9	751.3	757.1	724.2	381.9	284.8	202.3	188.0	207.8	257.8
85°	412.9	420.4	418.5	430.7	412.9	152.3	135.3	124.1	131.7	141.2	165.4
87.5°	201.1	203.1	196.7	207.0	200.3	77.0	66.7	70.6	77.0	78.9	78.9
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°	1614.7	1614.7	1614.7	1614.7	1614.7	1614.7
2.5°	1525.4	1517.9	1518.7	1516.8	1513.1	1513.1
5°	1512.3	1504.8	1504.8	1502.8	1498.1	1498.9
7.5°	1525.4	1513.1	1508.4	1501.7	1495.3	1495.3
10°	1540.5	1518.7	1505.6	1494.4	1485.8	1485.8
12.5°	1551.6	1517.9	1496.1	1481.1	1472.7	1472.7
15°	1555.5	1511.2	1481.1	1463.2	1455.7	1454.8
17.5°	1543.3	1485.8	1449.3	1428.6	1419.1	1416.3
20°	1505.6	1439.8	1395.7	1372.0	1358.9	1354.1
22.5°	1449.3	1373.9	1322.3	1297.8	1280.8	1278.0
25°	1370.3	1289.4	1238.6	1214.9	1205.7	1202.6
27.5°	1278.0	1202.6	1159.4	1144.3	1136.0	1135.1
30°	1190.6	1126.5	1094.7	1083.2	1072.9	1071.2
32.5°	1108.6	1068.2	1056.2	1040.0	1015.7	1012.9
35°	1050.3	1046.7	1038.3	1002.3	972.5	963.8
37.5°	1014.6	1049.5	1006.2	935.7	914.2	912.2
40°	994.0	1020.5	946.0	921.7	923.4	921.7
42.5°	947.1	974.2	947.9	936.8	944.0	946.0
45°	900.0	930.1	962.2	954.6	972.5	972.5
47.5°	873.7	918.7	961.1	961.1	987.6	996.8
50°	843.6	909.4	946.0	959.1	980.0	972.5
52.5°	841.7	893.3	924.5	947.9	957.4	948.8
55°	844.4	880.2	902.8	929.3	940.4	941.2
57.5°	848.4	872.6	887.7	900.0	933.7	933.7
60°	857.6	866.2	874.6	881.3	925.3	926.2
62.5°	872.6	859.5	857.6	864.3	920.6	917.0
65°	896.3	850.0	836.1	842.5	915.9	904.7
67.5°	928.1	836.1	808.7	813.5	912.2	887.7
70°	957.4	813.5	775.0	770.2	876.5	833.3
72.5°	960.2	787.3	727.8	713.9	761.9	720.3
75°	913.1	769.1	676.2	634.7	629.1	623.5
77.5°	823.0	758.8	616.0	551.0	539.8	543.4
80°	688.5	720.3	543.4	466.4	527.5	521.1
82.5°	514.4	635.8	461.7	412.9	411.8	364.1
85°	285.9	495.7	376.1	309.4	215.4	208.7
87.5°	80.1	275.6	263.3	174.9	119.4	124.1
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)