

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: STREETWORKS

Report Number: P193152

Luminaire Tested: **GAN-AF-04-LED-U-T2R-7030-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193152
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: STREETWORKS
Catalog Number: GAN-AF-04-LED-U-T2R-7030-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24193.3 lumens
Efficiency: N/A
Efficacy: 107.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 225
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: 28.75 FT

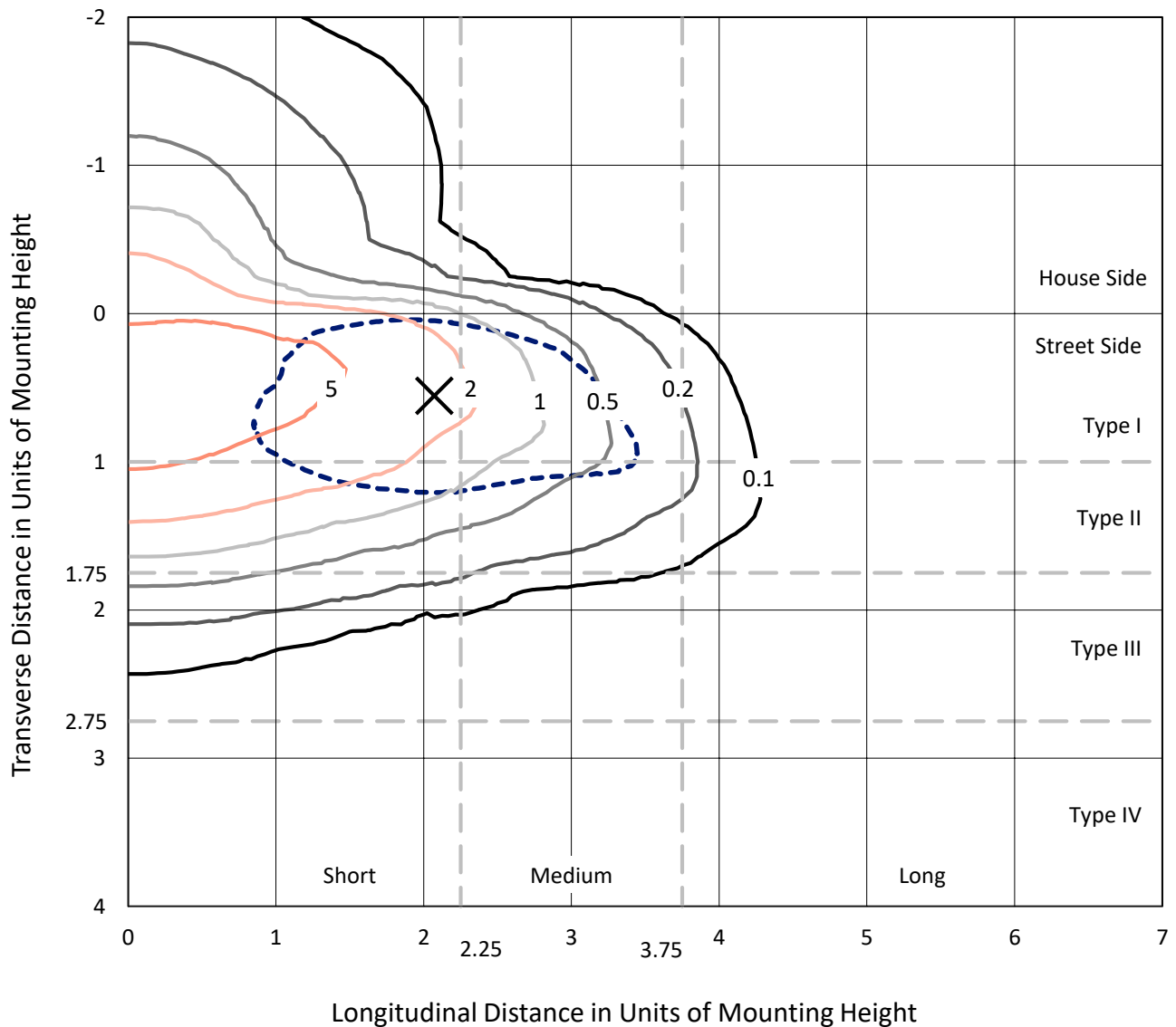


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Iso-Footcandle Lines of Horizontal Illumination

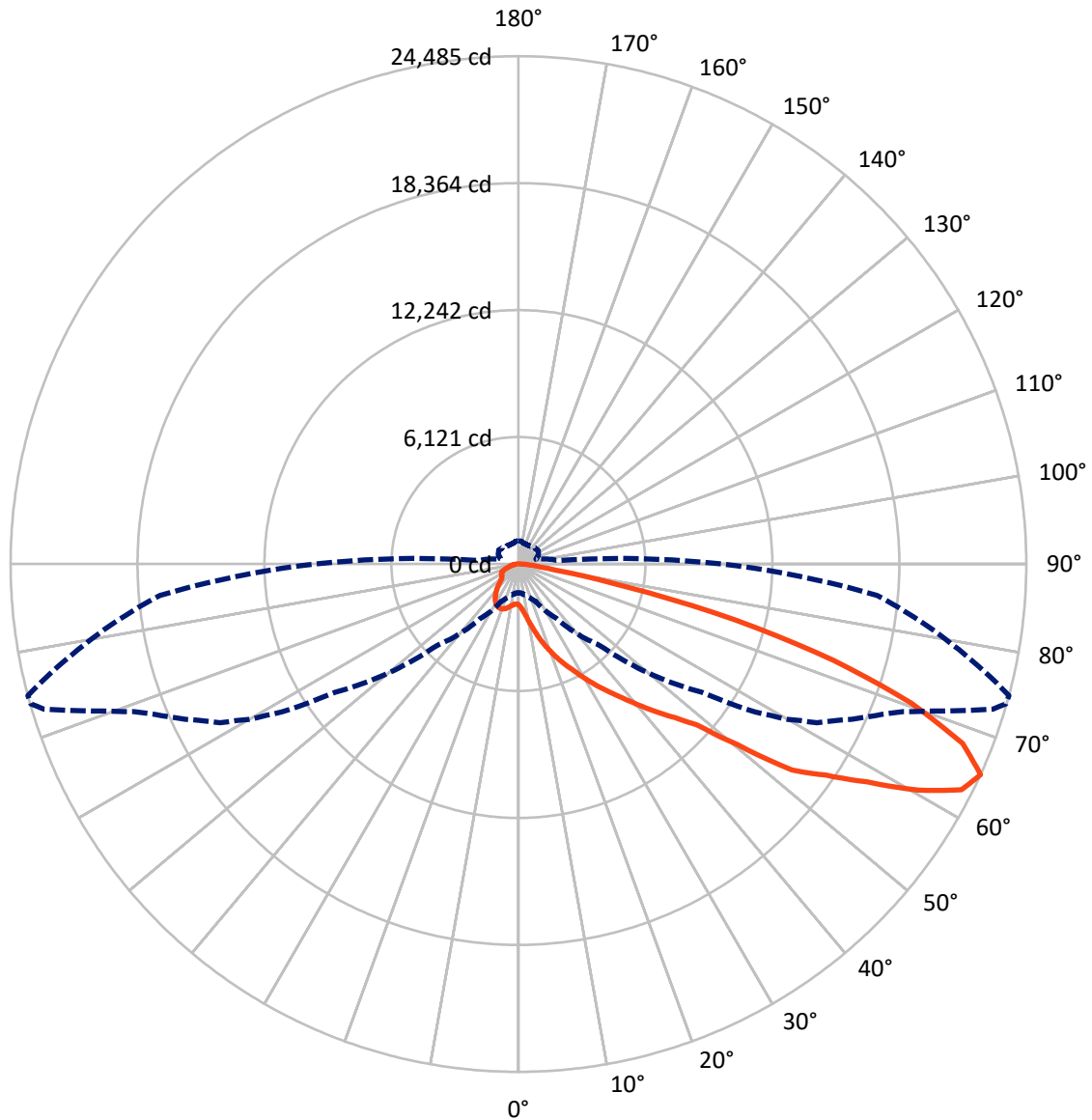
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 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	3730.0	0.0	3730.0
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	20463.2	0.0	20463.2
	% Fixture	84.6	0.0	84.6
Total	Lumens	24193.3	0.0	24193.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.0	1.0
10°-20°	949.6	3.9
20°-30°	1948.2	8.1
30°-40°	3277.7	13.5
40°-50°	4528.9	18.7
50°-60°	5653.4	23.4
60°-70°	5087.4	21.0
70°-80°	2132.6	8.8
80°-90°	372.6	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°	24193.3	100.0
0°-180°	24193.3	100.0

Coefficient of Utilization



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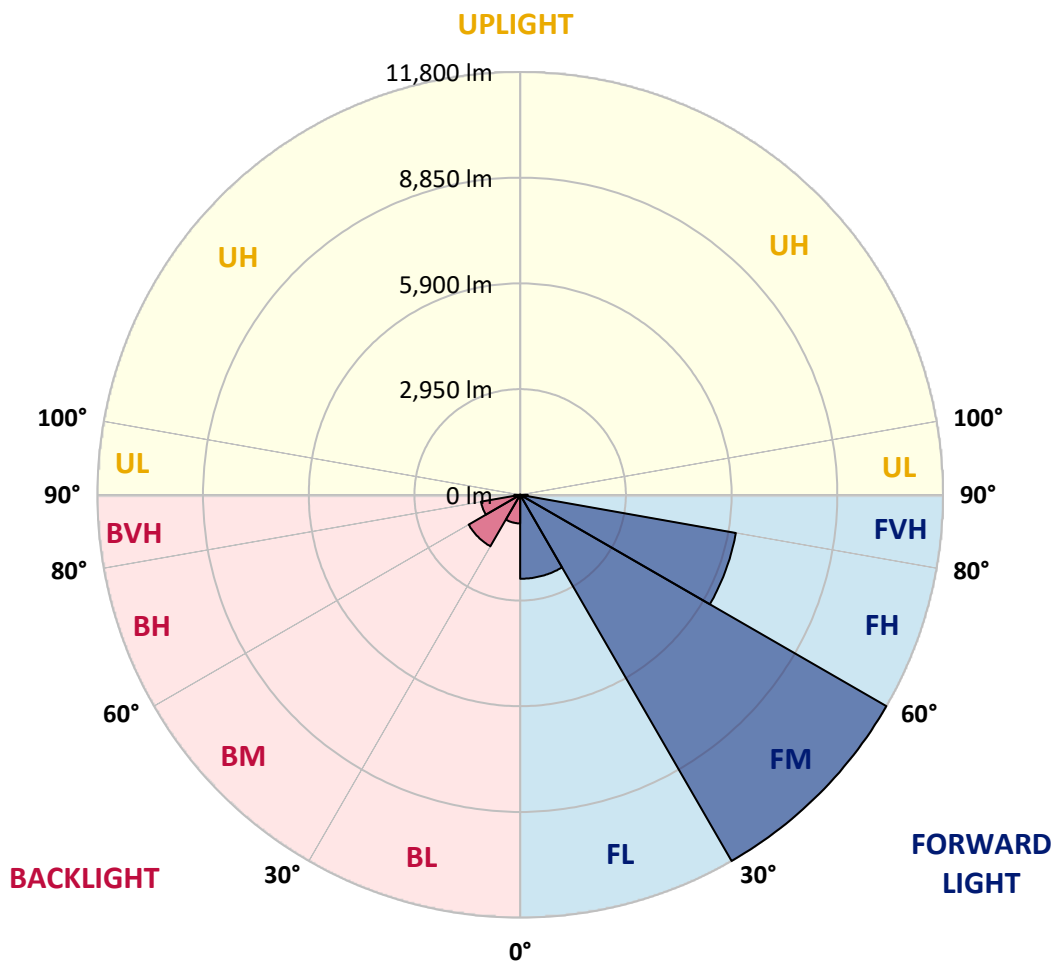
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2343.1	9.7			
FM (30°-60°)	11799.6	48.8			
FH (60°-80°)	6111.1	25.3			G3/7500
FVH (80°-90°)	209.4	0.9			G2/225
BL (0°-30°)	797.7	3.3	B2/1000		
BM (30°-60°)	1660.3	6.9	B2/2500		
BH (60°-80°)	1108.9	4.6	B3/2500		G3/2500
BVH (80°-90°)	163.2	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	1966.1	1966.1	1966.1	1966.1	1966.1	1966.1	1966.1	1966.1	1966.1	1966.1	1966.1
2.5°	2496.3	2468.8	2475.7	2429.9	2373.8	2300.6	2219.3	2218.1	2219.3	2211.2	2181.5
5°	3461.7	3428.4	3415.9	3312.8	3161.6	2946.4	2712.8	2687.6	2677.3	2650.9	2590.2
7.5°	4165.9	4147.6	4128.2	4050.2	3912.9	3672.4	3358.6	3304.8	3253.3	3240.6	3172.1
10°	4620.6	4615.9	4574.8	4554.2	4468.2	4259.8	3954.1	3902.5	3846.5	3827.1	3754.8
12.5°	4980.1	4979.0	4959.5	4965.2	4890.8	4739.6	4476.3	4429.3	4388.1	4328.6	4277.1
15°	5228.6	5229.8	5258.4	5290.5	5279.0	5177.0	4929.8	4909.1	4873.6	4832.4	4771.7
17.5°	5432.5	5438.2	5468.0	5526.4	5589.2	5581.3	5385.5	5368.4	5337.5	5281.3	5249.3
20°	5892.8	5914.5	5857.3	5857.3	5864.2	5895.1	5801.1	5787.5	5743.9	5714.2	5688.9
22.5°	6670.3	6695.5	6566.2	6434.4	6305.1	6211.2	6117.2	6134.4	6104.7	6084.0	6069.2
25°	7680.3	7699.7	7490.2	7268.0	7004.7	6661.1	6428.7	6418.4	6402.4	6389.8	6382.9
27.5°	8630.7	8638.8	8440.8	8115.4	7809.8	7316.1	6744.8	6732.1	6712.7	6688.7	6668.0
30°	9443.9	9441.5	9237.7	8927.3	8599.8	8053.6	7224.6	7185.7	7128.4	7063.1	7012.7
32.5°	10148.0	10144.6	9921.3	9599.5	9256.0	8784.2	7881.9	7801.6	7712.4	7585.3	7508.6
35°	10702.3	10700.0	10489.3	10153.8	9759.8	9472.4	8635.3	8536.9	8423.5	8252.9	8134.9
37.5°	10911.8	10911.8	10793.8	10564.9	10216.8	10019.7	9472.4	9353.3	9232.0	9038.4	8905.6
40°	10789.3	10791.5	10816.7	10774.4	10604.9	10453.8	10253.4	10182.4	10078.2	9904.2	9765.6
42.5°	10378.2	10390.8	10557.9	10762.9	10847.7	10823.7	10946.1	10914.1	10840.8	10706.9	10596.9
45°	9857.2	9896.1	10079.2	10466.4	10915.2	11143.2	11526.8	11530.2	11516.5	11444.3	11359.5
47.5°	9141.5	9196.5	9438.1	9961.3	10757.2	11453.4	12116.6	12147.5	12176.1	12129.1	12090.2
50°	8191.0	8256.2	8618.2	9312.0	10435.5	11775.2	13230.6	13370.4	13500.9	13484.9	13511.2
52.5°	7173.0	7249.8	7693.0	8465.9	9882.4	11849.7	13942.9	14170.8	14398.7	14585.3	14783.5
55°	6254.6	6213.3	6656.6	7470.7	8973.1	11514.2	14583.1	14857.9	15112.0	15341.1	15577.0
57.5°	5009.9	5077.5	5521.8	6326.7	7769.7	10567.1	15023.9	15425.9	15791.1	16170.2	16504.6
60°	3662.1	3729.7	4211.7	5029.3	6463.0	9131.2	14687.2	15296.6	15881.6	16462.2	16915.6
62.5°	2211.2	2261.5	2686.4	3465.1	4983.6	7428.4	13187.1	13986.5	14847.6	15541.6	16236.6
65°	1376.4	1405.1	1562.0	1990.2	3200.6	5545.8	10774.4	11645.8	12573.3	13453.9	14176.6
67.5°	1126.8	1137.1	1165.7	1257.3	1757.8	3616.3	8019.3	8791.1	9628.2	10480.1	11284.0
70°	1013.4	1006.6	1006.6	1012.3	1126.8	1944.4	5250.4	5753.0	6450.4	7191.3	7926.5
72.5°	914.9	908.1	895.5	878.3	919.5	1186.3	2713.9	3092.9	3595.7	4254.1	4958.4
75°	822.1	813.0	798.1	776.4	805.0	895.5	1303.1	1462.3	1707.4	2057.8	2450.5
77.5°	726.0	714.5	700.8	684.7	721.4	696.2	763.8	821.1	914.9	1027.1	1174.9
80°	617.2	606.9	602.3	594.4	637.8	530.2	539.3	574.8	629.8	690.5	759.3
82.5°	483.3	483.3	501.6	505.0	553.1	381.4	403.0	434.0	462.6	494.7	526.7
85°	318.4	320.6	382.5	406.6	436.3	256.5	302.3	312.6	335.5	353.9	367.5
87.5°	99.7	107.6	233.6	258.8	250.7	145.5	185.5	190.1	206.2	218.7	230.2
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°	1966.1	1966.1	1966.1	1966.1	1966.1	1966.1	1966.1	1966.1	1966.1	1966.1	1966.1
2.5°	2181.5	2167.7	2155.1	2153.9	2144.8	2132.2	2136.8	2117.3	2118.4	2108.1	2096.6
5°	2565.1	2555.9	2510.1	2497.4	2463.1	2441.4	2437.9	2392.1	2386.4	2360.1	2331.5
7.5°	3117.0	3087.2	3023.1	2992.2	2933.8	2890.2	2869.7	2808.9	2779.2	2710.5	2679.6
10°	3695.2	3657.5	3578.5	3535.0	3478.9	3409.0	3371.2	3283.0	3248.8	3185.7	3110.2
12.5°	4231.2	4193.4	4112.1	4078.8	4004.5	3930.0	3888.9	3789.2	3744.6	3643.8	3584.2
15°	4727.0	4689.3	4618.3	4583.9	4509.4	4448.8	4393.9	4295.3	4242.6	4148.8	4070.9
17.5°	5208.0	5168.0	5106.1	5075.2	5003.0	4941.1	4881.6	4788.9	4735.1	4641.2	4571.3
20°	5654.6	5624.7	5580.2	5538.9	5466.8	5410.6	5339.7	5259.5	5181.6	5112.9	5046.5
22.5°	6043.9	6032.5	5984.3	5966.1	5904.3	5856.1	5794.3	5715.3	5659.2	5572.1	5510.3
25°	6379.4	6376.1	6353.1	6347.4	6303.8	6258.1	6244.2	6179.0	6127.5	6050.8	5986.7
27.5°	6668.0	6671.5	6665.7	6681.7	6670.3	6649.7	6650.8	6629.1	6599.3	6535.3	6479.1
30°	6988.7	6970.3	6980.7	7003.5	7010.4	7012.7	7050.5	7063.1	7060.8	7018.4	6991.0
32.5°	7442.0	7398.6	7358.5	7355.2	7377.9	7387.1	7451.3	7484.5	7513.1	7523.4	7528.0
35°	8020.4	7933.5	7849.7	7805.2	7766.1	7776.5	7822.3	7876.1	7939.1	7982.6	8034.2
37.5°	8748.7	8642.2	8494.5	8389.2	8362.8	8305.6	8335.3	8377.7	8439.5	8507.0	8596.4
40°	9631.5	9470.1	9304.1	9164.3	9088.8	8983.4	8982.3	8974.3	9012.0	9075.1	9201.0
42.5°	10481.2	10338.1	10161.7	10015.2	9916.7	9775.9	9747.2	9672.8	9689.9	9745.0	9867.4
45°	11277.0	11159.2	11051.6	10882.0	10798.4	10646.1	10598.0	10509.8	10460.7	10485.8	10608.4
47.5°	12047.8	11972.2	11860.0	11750.1	11686.0	11549.7	11487.8	11424.8	11361.9	11359.5	11487.8
50°	13550.3	13510.1	13377.2	13262.8	13293.7	13126.5	13136.8	12967.3	13044.0	13053.2	13322.3
52.5°	14962.1	15101.9	15200.2	15320.6	15398.4	15413.3	15464.8	15541.6	15634.2	15817.5	16067.1
55°	15770.6	15945.8	16047.7	16139.2	16290.4	16322.5	16408.3	16510.2	16591.6	16797.7	17009.6
57.5°	16731.3	17056.6	17214.6	17359.9	17563.9	17641.6	17784.7	17895.9	18001.2	18245.2	18501.6
60°	17323.4	17719.5	18041.3	18271.5	18526.9	18710.1	18926.6	19100.6	19347.9	19639.9	20022.5
62.5°	16852.7	17434.4	17861.6	18256.5	18603.6	18954.0	19264.3	19589.5	19965.2	20407.1	21000.2
65°	14978.2	15570.2	16301.9	16711.9	17171.0	17711.6	18183.4	18710.1	19222.0	19865.5	20742.7
67.5°	12058.1	12746.3	13568.5	13981.9	14509.7	15113.3	15642.3	16285.8	16883.7	17663.4	18747.9
70°	8691.5	9581.2	10272.9	10704.5	11320.7	11942.5	12453.2	13202.1	13696.7	14496.1	15617.1
72.5°	5503.4	6205.4	7052.8	7596.7	8144.0	8773.8	9296.1	9941.9	10403.3	11131.7	12147.5
75°	2959.0	3476.6	4220.9	4737.4	5323.6	5861.9	6473.4	6906.2	7247.5	7823.4	8648.0
77.5°	1386.7	1701.6	2078.4	2475.7	2873.1	3287.6	3690.7	4041.2	4187.7	4517.6	5004.2
80°	841.7	943.6	1053.5	1176.0	1342.0	1476.1	1653.5	1781.8	1791.0	1895.2	2044.0
82.5°	562.2	600.1	633.2	664.2	706.6	739.8	777.5	822.1	840.5	864.6	912.7
85°	383.6	402.0	408.8	428.3	423.7	435.2	450.0	464.9	473.0	471.8	493.6
87.5°	235.9	245.1	249.6	254.2	250.7	246.2	253.1	261.1	263.5	256.5	258.8
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°	1966.1	1966.1	1966.1	1966.1	1966.1	1966.1	1966.1	1966.1	1966.1	1966.1	1966.1
2.5°	2099.0	2088.7	2078.4	2071.5	2069.3	2008.5	1982.2	1965.0	1928.4	1898.6	1874.6
5°	2315.4	2293.7	2276.5	2255.8	2244.4	2091.0	2034.9	1995.9	1931.8	1894.0	1859.7
7.5°	2663.5	2602.9	2567.4	2527.2	2493.0	2215.8	2123.0	2062.4	1973.0	1922.6	1883.7
10°	3058.6	2995.7	2939.5	2877.7	2823.8	2381.9	2246.7	2152.9	2034.9	1969.6	1918.0
12.5°	3499.5	3437.7	3366.6	3287.6	3218.9	2592.5	2404.8	2270.7	2109.4	2022.3	1950.2
15°	4020.5	3911.7	3825.8	3734.3	3654.0	2844.4	2589.1	2403.6	2188.4	2070.4	1974.2
17.5°	4504.9	4390.4	4273.5	4193.4	4100.7	3127.3	2774.6	2538.7	2253.6	2101.3	1978.8
20°	4977.9	4853.0	4752.2	4644.6	4547.3	3420.5	2972.7	2657.8	2296.0	2102.4	1950.2
22.5°	5394.6	5316.8	5204.6	5087.7	4989.4	3713.6	3158.2	2758.6	2312.0	2076.2	1899.8
25°	5868.8	5786.3	5648.8	5550.4	5440.4	4012.4	3340.3	2836.5	2302.8	2026.9	1821.9
27.5°	6374.8	6283.3	6142.4	6039.3	5906.5	4322.9	3507.4	2892.5	2268.4	1946.7	1717.7
30°	6902.8	6819.2	6680.6	6576.5	6442.5	4651.5	3694.2	2930.4	2199.7	1835.7	1596.3
32.5°	7469.6	7399.8	7262.4	7153.5	7010.4	5007.6	3868.3	2941.8	2095.6	1703.9	1468.0
35°	8007.8	7959.7	7844.0	7742.1	7593.3	5344.3	4052.5	2936.2	1971.9	1559.6	1351.2
37.5°	8613.6	8584.9	8527.6	8398.3	8216.2	5801.1	4273.5	2912.1	1820.7	1416.5	1262.0
40°	9259.4	9261.7	9199.8	9111.6	8942.3	6355.4	4537.0	2865.1	1655.9	1290.6	1180.6
42.5°	9943.0	9978.5	9948.8	9885.8	9723.2	6914.3	4851.8	2807.9	1495.5	1168.0	1100.5
45°	10726.3	10769.8	10815.7	10722.9	10564.9	7651.7	5266.4	2733.4	1322.6	1066.2	1045.5
47.5°	11629.8	11698.5	11739.8	11740.9	11582.9	8565.5	5939.8	2688.8	1169.2	997.4	1019.2
50°	13536.4	13558.2	13655.6	13825.0	13703.7	10680.5	7115.7	2661.2	1065.0	955.0	999.7
52.5°	16283.6	16522.9	16691.2	16679.7	16514.9	12023.8	7763.9	2519.3	1003.1	939.0	990.6
55°	17402.4	17701.2	18012.7	18095.2	17966.9	13170.0	8376.6	2377.3	973.4	950.4	993.9
57.5°	18893.3	19397.2	19824.2	20004.1	19818.5	14636.9	9182.7	2302.8	964.2	981.3	1015.7
60°	20635.0	21257.9	21819.1	22142.1	22142.1	16322.5	10018.6	2271.9	951.5	1027.1	1052.3
62.5°	21753.8	22668.8	23516.1	23989.1	23975.3	17496.2	10389.7	2166.6	922.9	1059.3	1102.8
65°	21758.3	22846.2	23926.0	24457.4	24484.9	17352.0	9777.1	1913.4	870.2	1063.8	1153.1
67.5°	19944.5	21104.5	22362.9	22957.3	23094.6	15973.2	8463.6	1573.5	784.4	1018.0	1171.5
70°	16844.7	17977.2	19262.0	19846.1	20089.9	13616.6	6816.9	1212.7	674.4	917.2	1133.7
72.5°	13270.7	14381.6	15275.9	15703.0	15893.1	10407.9	4964.0	916.1	553.1	772.9	1031.7
75°	9395.6	10229.3	10704.5	10799.6	10829.3	6274.1	3016.2	681.3	455.7	601.2	871.5
77.5°	5303.0	5660.2	5621.4	5663.8	5311.1	2422.0	1313.4	487.9	375.7	456.9	675.7
80°	2070.4	2134.5	2005.1	1965.0	1802.4	901.2	579.4	340.2	300.0	345.8	473.0
82.5°	912.7	942.5	914.9	921.8	881.7	464.9	347.0	246.2	229.0	253.1	313.8
85°	502.7	511.9	509.5	524.5	502.7	185.5	164.9	151.1	160.3	171.7	201.6
87.5°	245.1	247.4	239.3	252.0	243.8	93.9	81.3	85.9	93.9	96.1	96.1
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):

	135°	145°	155°	165°	175°	180°
0°	1966.1	1966.1	1966.1	1966.1	1966.1	1966.1
2.5°	1857.4	1848.2	1849.3	1847.0	1842.5	1842.5
5°	1841.3	1832.2	1832.2	1829.9	1824.2	1825.2
7.5°	1857.4	1842.5	1836.7	1828.8	1820.7	1820.7
10°	1875.7	1849.3	1833.4	1819.6	1809.4	1809.4
12.5°	1889.4	1848.2	1821.9	1803.6	1793.3	1793.3
15°	1894.0	1840.3	1803.6	1781.8	1772.6	1771.5
17.5°	1879.2	1809.4	1764.6	1739.4	1727.9	1724.5
20°	1833.4	1753.2	1699.3	1670.7	1654.7	1648.9
22.5°	1764.6	1673.0	1610.1	1580.2	1559.6	1556.2
25°	1668.4	1569.9	1508.1	1479.5	1468.0	1464.6
27.5°	1556.2	1464.6	1411.9	1393.6	1383.3	1382.1
30°	1449.8	1371.9	1333.0	1319.2	1306.6	1304.3
32.5°	1350.1	1300.8	1286.0	1266.6	1236.7	1233.3
35°	1279.1	1274.5	1264.2	1220.7	1184.1	1173.8
37.5°	1235.6	1278.0	1225.3	1139.3	1113.1	1110.7
40°	1210.4	1242.5	1152.0	1122.2	1124.5	1122.2
42.5°	1153.1	1186.3	1154.4	1140.5	1149.7	1152.0
45°	1095.9	1132.5	1171.5	1162.3	1184.1	1184.1
47.5°	1063.8	1118.9	1170.2	1170.2	1202.4	1213.9
50°	1027.1	1107.4	1152.0	1168.0	1193.2	1184.1
52.5°	1024.9	1087.9	1125.7	1154.4	1165.7	1155.4
55°	1028.3	1071.9	1099.3	1131.4	1145.1	1146.2
57.5°	1032.9	1062.6	1081.0	1095.9	1137.1	1137.1
60°	1044.3	1054.7	1065.0	1072.9	1126.8	1128.0
62.5°	1062.6	1046.6	1044.3	1052.3	1121.1	1116.5
65°	1091.3	1035.2	1018.0	1026.1	1115.3	1101.6
67.5°	1130.2	1018.0	984.8	990.6	1110.7	1081.0
70°	1165.7	990.6	943.6	937.9	1067.3	1014.6
72.5°	1169.2	958.4	886.3	869.1	927.5	877.2
75°	1111.9	936.7	823.4	772.9	766.1	759.3
77.5°	1002.0	924.2	750.1	671.1	657.3	661.9
80°	838.2	877.2	661.9	567.9	642.5	634.4
82.5°	626.4	774.1	562.2	502.7	501.6	443.1
85°	348.1	603.4	458.1	376.7	262.2	254.2
87.5°	97.4	335.5	320.6	212.9	145.5	151.1
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)