

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: P193147

Luminaire Tested: **GAN-AF-09-LED-U-T2R-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193147
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-09-LED-U-T2R-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 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: 43320.2 lumens
Efficiency: N/A
Efficacy: 115.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 374
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

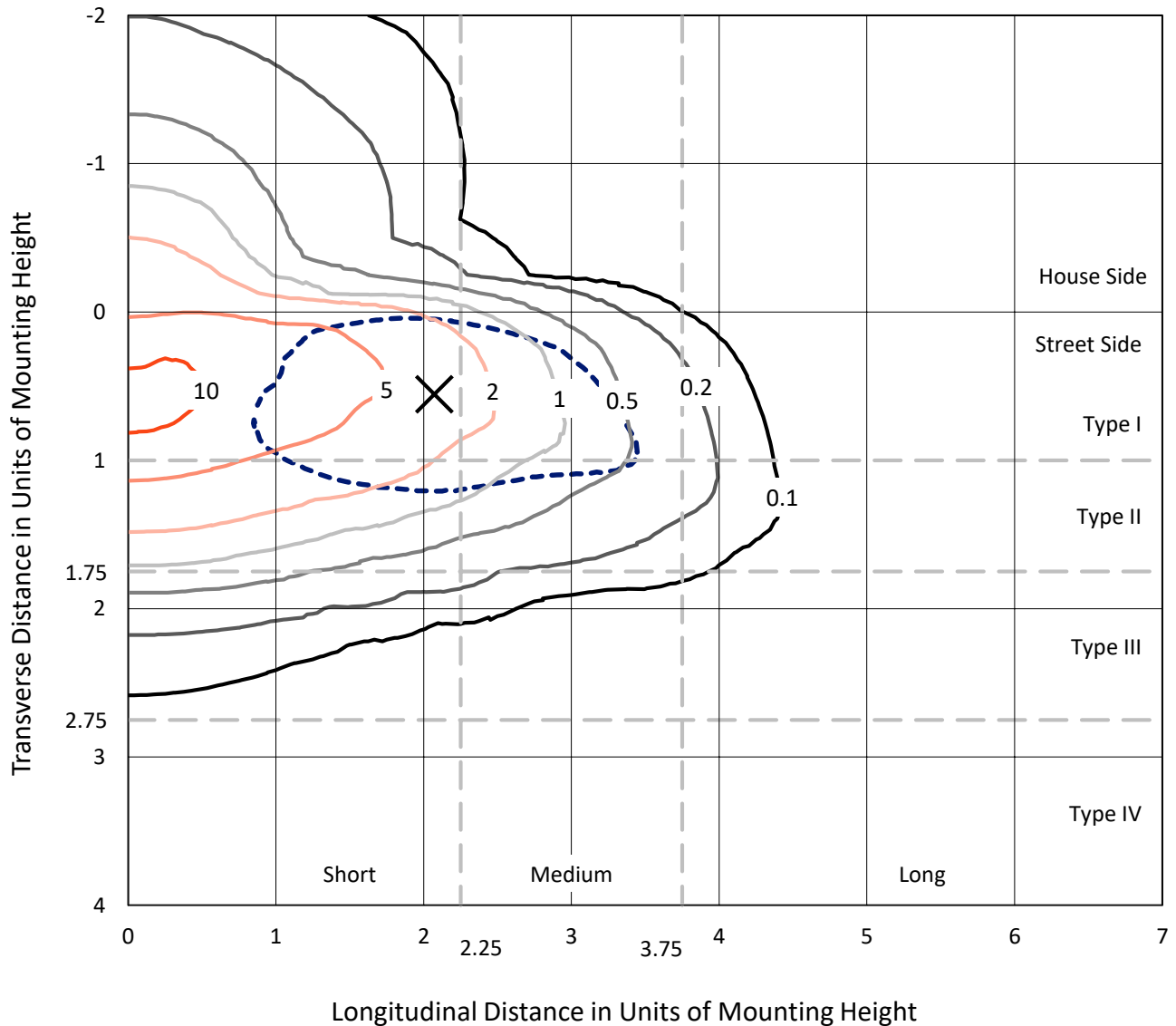


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Iso-Footcandle Lines of Horizontal Illumination

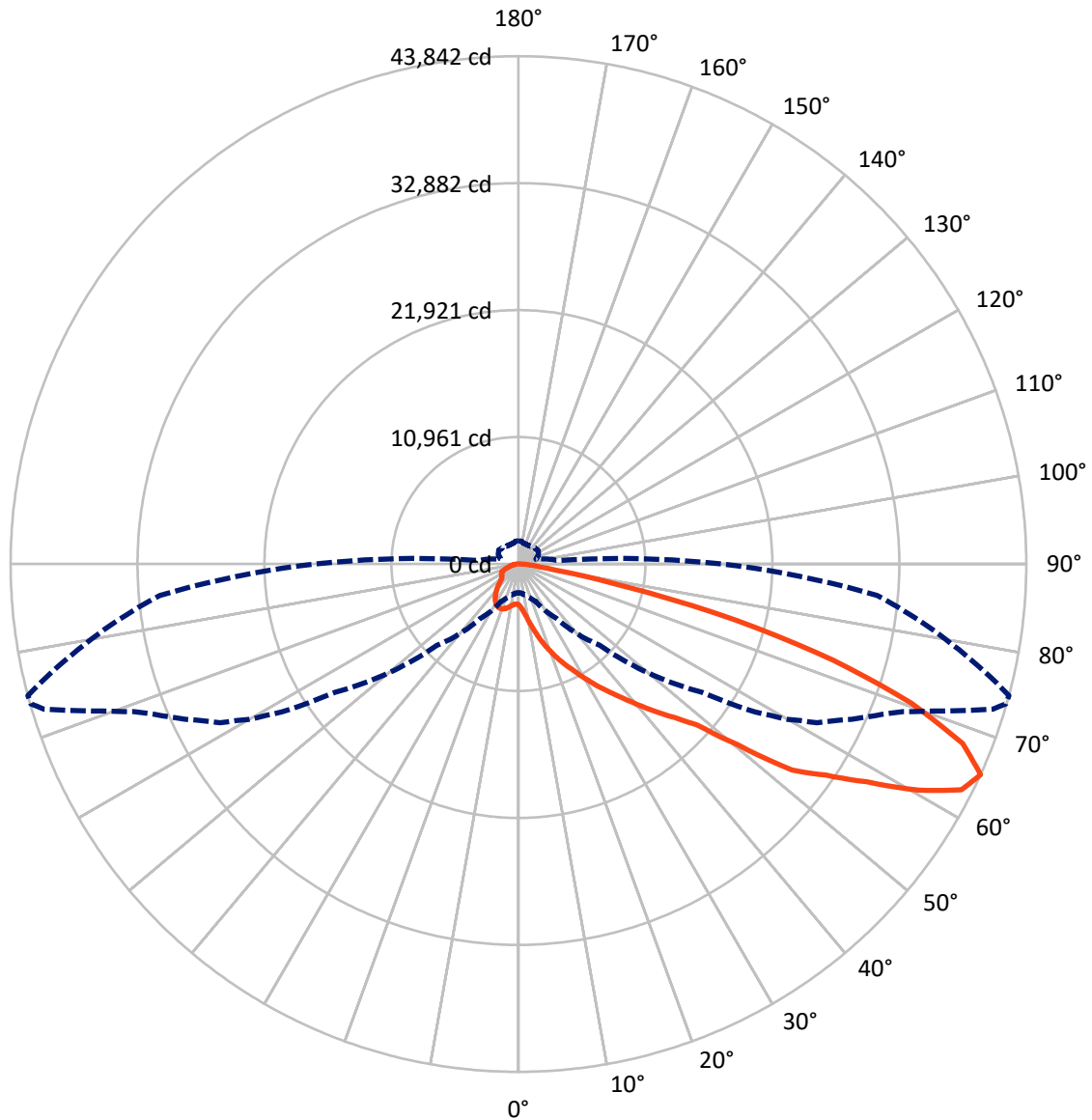
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.1 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	6679.0	0.0	6679.0
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	36641.2	0.0	36641.2
	% Fixture	84.6	0.0	84.6
Total	Lumens	43320.2	0.0	43320.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	435.2	1.0
10°-20°	1700.3	3.9
20°-30°	3488.4	8.1
30°-40°	5869.0	13.5
40°-50°	8109.3	18.7
50°-60°	10122.9	23.4
60°-70°	9109.5	21.0
70°-80°	3818.6	8.8
80°-90°	667.1	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°	43320.2	100.0
0°-180°	43320.2	100.0

Coefficient of Utilization



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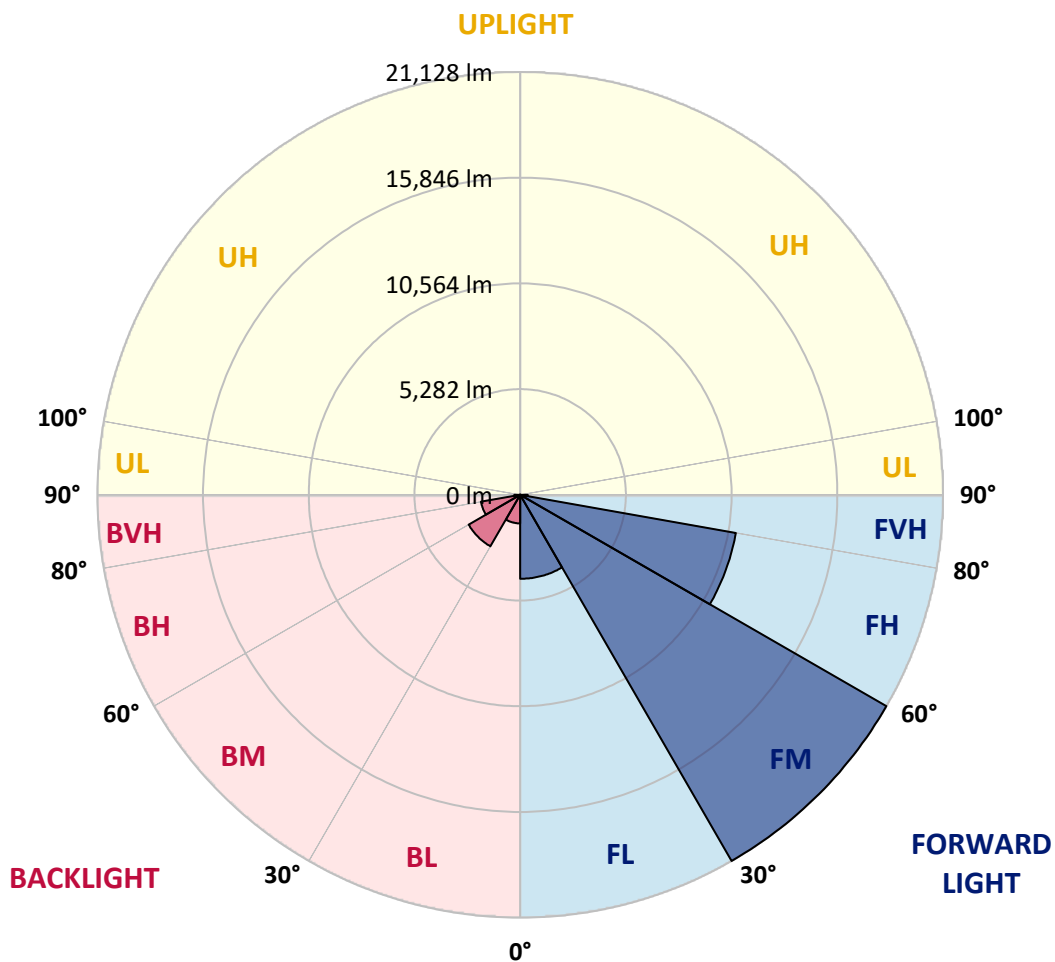
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4195.4	9.7			
FM (30°-60°)	21128.3	48.8			
FH (60°-80°)	10942.5	25.3			G4/12000
FVH (80°-90°)	375.0	0.9			G3/500
BL (0°-30°)	1428.4	3.3	B3/2500		
BM (30°-60°)	2972.9	6.9	B3/5000		
BH (60°-80°)	1985.6	4.6	B3/2500		G3/2500
BVH (80°-90°)	292.1	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°	3520.6	3520.6	3520.6	3520.6	3520.6	3520.6	3520.6	3520.6	3520.6	3520.6	3520.6
2.5°	4469.9	4420.7	4433.0	4351.0	4250.5	4119.3	3973.8	3971.7	3973.8	3959.3	3906.1
5°	6198.5	6138.9	6116.5	5931.9	5661.3	5275.8	4857.4	4812.4	4794.0	4746.8	4638.0
7.5°	7459.4	7426.7	7391.8	7252.4	7006.4	6575.8	6013.9	5917.6	5825.2	5802.8	5679.8
10°	8273.5	8265.4	8191.5	8154.6	8000.8	7627.6	7080.1	6987.9	6887.3	6852.5	6723.4
12.5°	8917.3	8915.3	8880.5	8890.7	8757.4	8486.7	8015.2	7931.1	7857.3	7750.7	7658.4
15°	9362.3	9364.3	9415.6	9473.0	9452.4	9270.0	8827.2	8790.2	8726.6	8652.8	8544.2
17.5°	9727.3	9737.5	9790.8	9895.4	10008.1	9993.8	9643.2	9612.4	9557.1	9456.6	9399.1
20°	10551.5	10590.5	10488.1	10488.1	10500.3	10555.6	10387.5	10362.9	10285.0	10231.7	10186.6
22.5°	11943.7	11988.9	11757.2	11521.4	11289.6	11121.5	10953.5	10984.2	10930.9	10893.9	10867.3
25°	13752.3	13787.1	13411.9	13014.1	12542.5	11927.4	11511.1	11492.7	11464.0	11441.4	11429.1
27.5°	15454.0	15468.5	15113.8	14531.4	13984.0	13100.1	12077.1	12054.5	12019.6	11976.6	11939.7
30°	16909.9	16905.8	16540.9	15985.1	15398.8	14420.7	12936.2	12866.5	12764.0	12647.1	12556.8
32.5°	18170.9	18164.8	17765.0	17188.7	16573.6	15728.9	14113.1	13969.6	13809.8	13582.1	13444.7
35°	19163.3	19159.2	18782.0	18181.2	17475.8	16961.2	15462.4	15286.0	15083.0	14777.5	14566.3
37.5°	19538.7	19538.7	19327.4	18917.2	18294.0	17941.3	16961.2	16748.0	16530.6	16184.0	15946.3
40°	19319.2	19323.3	19368.4	19292.6	18989.0	18718.4	18359.6	18232.4	18046.0	17734.2	17486.1
42.5°	18583.1	18605.6	18905.0	19272.0	19423.8	19380.7	19600.1	19542.6	19411.4	19171.5	18974.7
45°	17650.2	17719.8	18047.9	18740.9	19544.8	19952.8	20639.6	20645.8	20621.3	20492.0	20340.4
47.5°	16368.5	16467.0	16899.6	17836.7	19261.8	20508.4	21695.6	21751.0	21802.2	21718.2	21648.5
50°	14666.8	14783.7	15431.6	16674.2	18685.6	21084.7	23690.6	23940.9	24174.6	24145.9	24193.1
52.5°	12844.0	12981.3	13774.9	15158.8	17695.2	21217.9	24966.1	25374.2	25782.1	26116.4	26471.2
55°	11199.5	11125.7	11919.2	13377.0	16067.2	20617.1	26112.3	26604.4	27059.5	27469.6	27892.0
57.5°	8970.6	9091.6	9887.2	11328.6	13912.2	18921.4	26901.7	27621.4	28275.5	28954.1	29552.9
60°	6557.3	6678.3	7541.5	9005.4	11572.6	16350.2	26298.8	27389.6	28437.5	29477.0	30289.0
62.5°	3959.3	4049.5	4810.3	6204.7	8923.5	13301.1	23612.8	25044.0	26585.9	27828.5	29073.2
65°	2464.7	2515.9	2796.8	3563.6	5730.9	9930.2	19292.6	20852.9	22513.8	24090.6	25384.4
67.5°	2017.6	2036.0	2087.3	2251.4	3147.4	6475.2	14359.2	15741.2	17240.0	18765.6	20205.0
70°	1814.7	1802.3	1802.3	1812.6	2017.6	3481.6	9401.2	10301.4	11550.2	12876.7	14193.1
72.5°	1638.4	1626.0	1603.5	1572.7	1646.5	2124.2	4859.6	5538.3	6438.3	7617.3	8878.4
75°	1472.2	1455.8	1429.1	1390.3	1441.4	1603.5	2333.3	2618.4	3057.2	3684.7	4388.0
77.5°	1299.9	1279.4	1254.9	1226.1	1291.8	1246.6	1367.6	1470.2	1638.4	1839.3	2103.8
80°	1105.1	1086.7	1078.5	1064.1	1142.1	949.4	965.8	1029.3	1127.8	1236.4	1359.4
82.5°	865.4	865.4	898.1	904.2	990.3	682.8	721.7	777.2	828.4	885.8	943.2
85°	570.0	574.1	684.8	727.8	781.2	459.3	541.3	559.7	600.8	633.6	658.2
87.5°	178.4	192.8	418.3	463.4	449.0	260.4	332.1	340.4	369.1	391.5	412.1
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°	3520.6	3520.6	3520.6	3520.6	3520.6	3520.6	3520.6	3520.6	3520.6	3520.6	3520.6
2.5°	3906.1	3881.4	3858.9	3856.9	3840.5	3817.9	3826.2	3791.3	3793.3	3774.8	3754.3
5°	4592.9	4576.6	4494.6	4472.0	4410.5	4371.6	4365.4	4283.4	4273.1	4225.9	4174.7
7.5°	5581.3	5528.0	5413.1	5357.7	5253.1	5175.3	5138.4	5029.8	4976.4	4853.4	4798.0
10°	6616.7	6549.1	6407.6	6329.7	6229.2	6104.1	6036.5	5878.5	5817.1	5704.3	5569.0
12.5°	7576.4	7508.8	7363.1	7303.7	7170.3	7037.1	6963.3	6784.9	6704.9	6524.5	6417.9
15°	8464.2	8396.6	8269.4	8207.9	8074.6	7966.0	7867.5	7691.2	7596.9	7428.7	7289.3
17.5°	9325.4	9253.6	9143.0	9087.5	8958.3	8847.6	8741.0	8574.8	8478.5	8310.4	8185.3
20°	10125.0	10071.7	9991.8	9917.9	9788.7	9688.3	9561.2	9417.6	9278.2	9155.2	9036.3
22.5°	10822.2	10801.7	10715.6	10682.8	10572.0	10485.9	10375.1	10233.8	10133.2	9977.4	9866.6
25°	11422.9	11416.8	11375.8	11365.5	11287.7	11205.6	11181.0	11064.1	10972.0	10834.4	10719.7
27.5°	11939.7	11945.9	11935.6	11964.3	11943.7	11906.8	11908.9	11869.9	11816.6	11701.7	11601.3
30°	12513.8	12481.0	12499.5	12540.4	12552.8	12556.8	12624.5	12647.1	12642.9	12567.1	12518.0
32.5°	13325.8	13247.9	13176.1	13169.9	13211.0	13227.4	13342.2	13401.6	13452.9	13471.3	13479.6
35°	14361.2	14205.5	14055.7	13975.8	13906.1	13924.5	14006.5	14102.8	14215.6	14293.7	14385.8
37.5°	15665.3	15474.6	15210.1	15021.5	14974.3	14871.9	14925.2	15001.0	15111.6	15232.7	15392.6
40°	17246.2	16957.0	16659.8	16409.6	16274.2	16085.7	16083.6	16069.3	16136.9	16249.7	16475.2
42.5°	18767.6	18511.4	18195.6	17933.0	17756.7	17504.5	17453.3	17320.0	17350.8	17449.1	17668.7
45°	20192.6	19981.5	19788.7	19485.3	19335.6	19062.9	18976.8	18819.0	18730.8	18775.8	18995.3
47.5°	21572.5	21437.3	21236.4	21039.5	20924.7	20680.7	20569.9	20457.1	20344.4	20340.4	20569.9
50°	24262.7	24191.0	23953.1	23748.1	23803.4	23504.2	23522.5	23219.1	23356.5	23372.8	23854.8
52.5°	26790.9	27041.1	27217.5	27432.7	27572.2	27598.9	27691.1	27828.5	27994.6	28322.6	28769.6
55°	28238.6	28552.2	28734.7	28898.8	29169.5	29226.9	29380.7	29563.2	29708.6	30077.8	30457.1
57.5°	29958.9	30541.2	30824.2	31084.6	31449.5	31589.0	31845.2	32044.2	32232.8	32669.6	33128.8
60°	31018.9	31728.5	32304.5	32716.7	33174.0	33502.0	33889.6	34201.2	34644.2	35167.0	35851.8
62.5°	30176.2	31217.9	31982.7	32690.1	33311.4	33938.7	34494.5	35076.8	35749.3	36540.7	37602.8
65°	26819.7	27879.8	29190.0	29924.0	30746.2	31714.0	32558.8	33502.0	34418.7	35570.9	37141.6
67.5°	21591.0	22823.3	24295.6	25035.7	25981.1	27061.7	28008.9	29161.3	30231.6	31628.0	33569.7
70°	15562.8	17156.0	18394.5	19167.5	20270.6	21384.0	22298.5	23639.5	24525.2	25956.4	27963.9
72.5°	9854.4	11111.3	12628.6	13602.6	14582.8	15710.4	16645.4	17801.8	18628.1	19932.2	21751.0
75°	5298.3	6225.1	7557.9	8482.7	9532.5	10496.2	11591.1	12366.2	12977.2	14008.5	15484.9
77.5°	2483.0	3046.9	3721.6	4433.0	5144.6	5886.8	6608.5	7236.0	7498.5	8089.0	8960.4
80°	1507.1	1689.5	1886.4	2105.8	2403.1	2643.0	2960.8	3190.5	3206.9	3393.5	3660.0
82.5°	1006.8	1074.4	1133.9	1189.3	1265.1	1324.5	1392.3	1472.2	1505.0	1548.1	1634.2
85°	686.9	719.7	732.0	766.9	758.7	779.1	805.8	832.4	846.9	844.8	883.7
87.5°	422.4	438.7	447.0	455.2	449.0	440.9	453.1	467.5	471.6	459.3	463.4
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):

	71°	72°	73°	74°	75°	85°	90°	95°	105°	115°	125°
0°	3520.6	3520.6	3520.6	3520.6	3520.6	3520.6	3520.6	3520.6	3520.6	3520.6	3520.6
2.5°	3758.4	3740.0	3721.6	3709.3	3705.1	3596.5	3549.3	3518.5	3452.9	3399.6	3356.6
5°	4146.0	4107.0	4076.3	4039.4	4018.9	3744.1	3643.6	3573.9	3459.0	3391.4	3329.9
7.5°	4769.2	4660.7	4597.1	4525.3	4463.8	3967.6	3801.4	3692.9	3532.9	3442.6	3373.0
10°	5476.7	5364.0	5263.4	5152.7	5056.4	4264.9	4022.9	3854.7	3643.6	3526.8	3434.4
12.5°	6266.1	6155.4	6028.3	5886.8	5763.8	4642.2	4305.9	4066.0	3776.9	3621.1	3491.9
15°	7199.1	7004.3	6850.4	6686.4	6542.9	5093.2	4636.0	4303.8	3918.4	3707.1	3535.0
17.5°	8066.4	7861.3	7652.2	7508.8	7342.6	5599.7	4968.2	4545.8	4035.3	3762.6	3543.2
20°	8913.3	8689.7	8509.3	8316.6	8142.3	6124.6	5322.9	4759.0	4111.1	3764.6	3491.9
22.5°	9659.6	9520.2	9319.3	9110.0	8933.7	6649.5	5655.2	4939.5	4139.9	3717.4	3401.7
25°	10508.4	10360.8	10114.7	9938.4	9741.7	7184.7	5981.1	5078.9	4123.5	3629.3	3262.3
27.5°	11414.8	11250.8	10998.5	10813.9	10576.2	7740.4	6280.4	5179.4	4061.9	3485.7	3075.6
30°	12360.1	12210.4	11962.2	11775.6	11535.7	8328.9	6614.7	5247.0	3938.9	3286.8	2858.3
32.5°	13375.0	13249.9	13003.8	12809.0	12552.8	8966.6	6926.4	5267.6	3752.3	3051.1	2628.7
35°	14338.6	14252.6	14045.5	13863.1	13596.4	9569.4	7256.5	5257.3	3530.8	2792.6	2419.5
37.5°	15423.4	15372.1	15269.5	15037.9	14711.9	10387.5	7652.2	5214.3	3260.2	2536.4	2259.6
40°	16579.8	16583.9	16473.2	16315.3	16011.8	11379.9	8123.9	5130.2	2965.0	2310.9	2113.9
42.5°	17803.9	17867.5	17814.1	17701.4	17410.3	12380.5	8687.6	5027.7	2677.8	2091.4	1970.5
45°	19206.4	19284.4	19366.3	19200.2	18917.2	13701.0	9429.9	4894.4	2368.3	1909.0	1872.0
47.5°	20824.2	20947.1	21021.1	21023.1	20740.1	15337.3	10635.7	4814.4	2093.5	1786.0	1824.8
50°	24238.2	24277.2	24451.4	24754.9	24537.6	19124.4	12741.4	4765.3	1906.9	1710.0	1790.0
52.5°	29157.2	29585.7	29887.1	29866.7	29571.3	21529.5	13901.9	4511.0	1796.2	1681.4	1773.6
55°	31160.4	31695.6	32253.4	32401.0	32171.3	23582.1	14998.9	4256.7	1742.9	1701.8	1779.8
57.5°	33830.2	34732.3	35497.1	35819.0	35486.9	26208.7	16442.4	4123.5	1726.6	1757.2	1818.7
60°	36948.9	38064.3	39068.9	39647.2	39647.2	29226.9	17939.3	4068.0	1703.9	1839.3	1884.4
62.5°	38952.1	40590.4	42107.8	42954.5	42929.9	31328.6	18603.6	3879.5	1652.6	1896.6	1974.6
65°	38960.3	40908.2	42841.7	43793.2	43842.4	31070.3	17506.6	3426.3	1558.4	1904.8	2064.8
67.5°	35712.4	37789.5	40043.0	41107.0	41353.1	28601.5	15154.8	2817.2	1404.5	1822.9	2097.6
70°	30161.9	32189.8	34490.3	35536.0	35972.8	24381.7	12206.2	2171.4	1207.8	1642.3	2029.9
72.5°	23762.5	25751.5	27352.8	28117.7	28458.0	18636.4	8888.7	1640.3	990.3	1384.1	1847.5
75°	16823.8	18316.5	19167.5	19337.7	19391.0	11234.4	5400.8	1220.0	816.0	1076.5	1560.3
77.5°	9495.6	10135.3	10065.6	10141.5	9509.9	4336.7	2351.8	873.5	672.5	818.2	1209.7
80°	3707.1	3822.0	3590.3	3518.5	3227.4	1613.6	1037.5	609.0	537.2	619.3	846.9
82.5°	1634.2	1687.5	1638.4	1650.6	1578.8	832.4	621.2	440.9	410.0	453.1	561.8
85°	900.2	916.5	912.5	939.1	900.2	332.1	295.2	270.6	287.1	307.6	360.9
87.5°	438.7	442.9	428.6	451.1	436.7	168.2	145.6	153.8	168.2	172.2	172.2
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):

	135°	145°	155°	165°	175°	180°
0°	3520.6	3520.6	3520.6	3520.6	3520.6	3520.6
2.5°	3325.9	3309.4	3311.4	3307.4	3299.2	3299.2
5°	3297.1	3280.7	3280.7	3276.5	3266.3	3268.4
7.5°	3325.9	3299.2	3288.9	3274.5	3260.2	3260.2
10°	3358.6	3311.4	3282.7	3258.1	3239.6	3239.6
12.5°	3383.2	3309.4	3262.3	3229.4	3211.0	3211.0
15°	3391.4	3295.0	3229.4	3190.5	3174.1	3172.1
17.5°	3364.7	3239.6	3159.7	3114.7	3094.1	3088.0
20°	3282.7	3139.2	3042.9	2991.6	2962.9	2952.6
22.5°	3159.7	2995.7	2883.0	2829.6	2792.6	2786.5
25°	2987.4	2811.1	2700.5	2649.2	2628.7	2622.5
27.5°	2786.5	2622.5	2528.2	2495.4	2476.9	2474.8
30°	2595.9	2456.3	2386.7	2362.0	2339.6	2335.4
32.5°	2417.5	2329.3	2302.6	2267.7	2214.4	2208.3
35°	2290.3	2282.1	2263.7	2185.7	2120.1	2101.7
37.5°	2212.4	2288.3	2193.9	2040.2	1993.0	1988.9
40°	2167.2	2224.7	2062.7	2009.4	2013.5	2009.4
42.5°	2064.8	2124.2	2066.8	2042.3	2058.7	2062.7
45°	1962.3	2027.9	2097.6	2081.2	2120.1	2120.1
47.5°	1904.8	2003.3	2095.6	2095.6	2153.0	2173.5
50°	1839.3	1982.7	2062.7	2091.4	2136.6	2120.1
52.5°	1835.1	1947.9	2015.7	2066.8	2087.3	2069.0
55°	1841.2	1919.2	1968.5	2025.7	2050.5	2052.4
57.5°	1849.5	1902.7	1935.6	1962.3	2036.0	2036.0
60°	1870.0	1888.4	1906.9	1921.3	2017.6	2019.6
62.5°	1902.7	1874.2	1870.0	1884.4	2007.4	1999.2
65°	1954.1	1853.6	1822.9	1837.2	1997.2	1972.5
67.5°	2023.8	1822.9	1763.3	1773.6	1988.9	1935.6
70°	2087.3	1773.6	1689.5	1679.4	1911.1	1816.7
72.5°	2093.5	1716.3	1587.0	1556.3	1660.8	1570.6
75°	1990.9	1677.2	1474.2	1384.1	1371.8	1359.4
77.5°	1794.1	1654.7	1343.1	1201.6	1176.9	1185.1
80°	1500.9	1570.6	1185.1	1016.9	1150.3	1136.0
82.5°	1121.5	1386.1	1006.8	900.2	898.1	793.6
85°	623.4	1080.6	820.2	674.5	469.6	455.2
87.5°	174.3	600.8	574.1	381.5	260.4	270.6
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)