

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: P268784

Luminaire Tested: **GAN-AF-08-LED-U-T2R-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268784
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-08-LED-U-T2R-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47366.3 lumens
Efficiency: N/A
Efficacy: 92.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 511
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

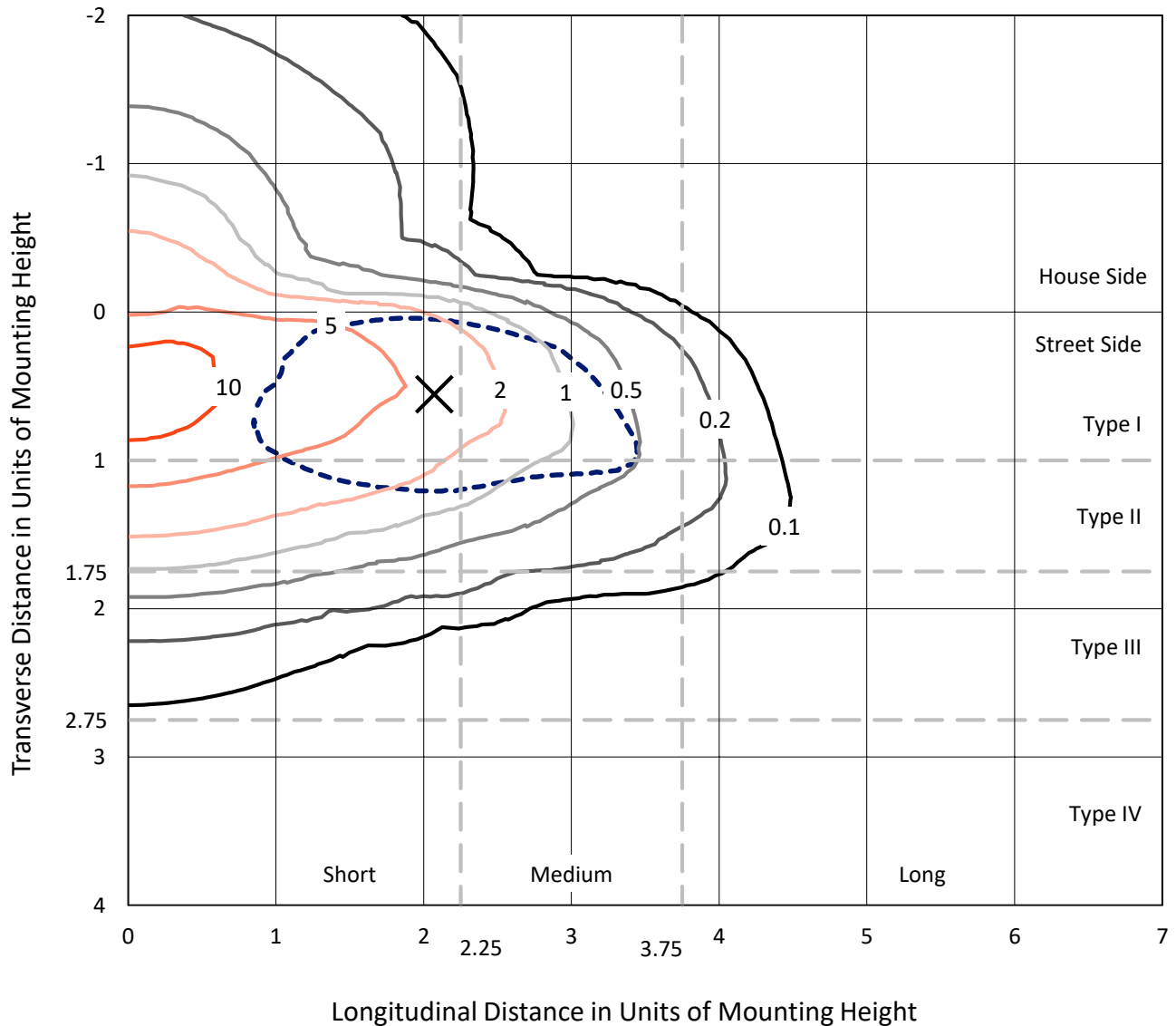


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

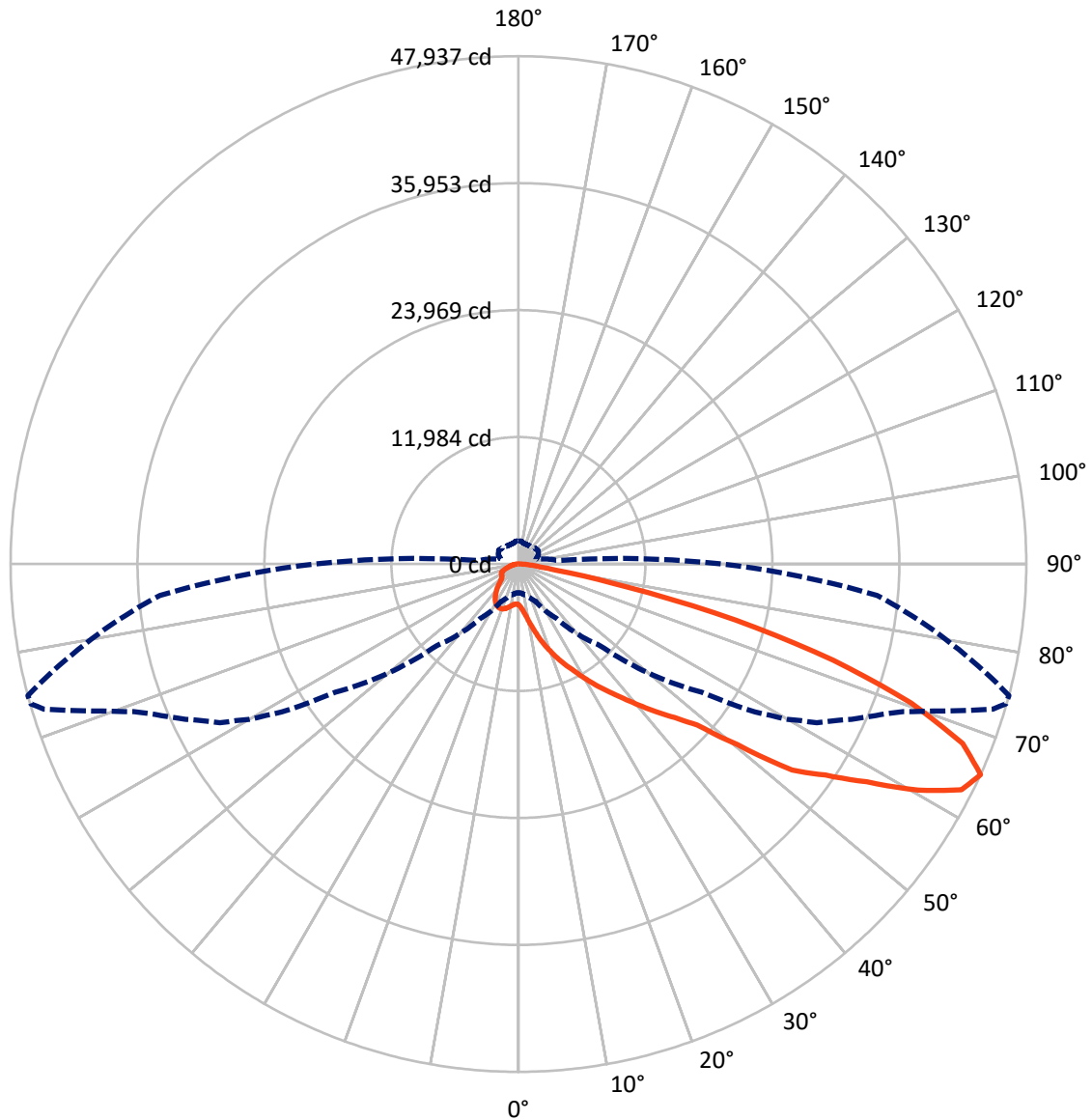


Based on 30 foot mounting height. Maximum calculated value = 13.3 fc
 Type II - Short - Full Cutoff

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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	7302.8	0.0	7302.8
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	40063.5	0.0	40063.5
	% Fixture	84.6	0.0	84.6
Total	Lumens	47366.3	0.0	47366.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	475.8	1.0
10°-20°	1859.1	3.9
20°-30°	3814.2	8.1
30°-40°	6417.2	13.5
40°-50°	8866.7	18.7
50°-60°	11068.3	23.4
60°-70°	9960.3	21.0
70°-80°	4175.3	8.8
80°-90°	729.4	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°	47366.3	100.0
0°-180°	47366.3	100.0

Coefficient of Utilization



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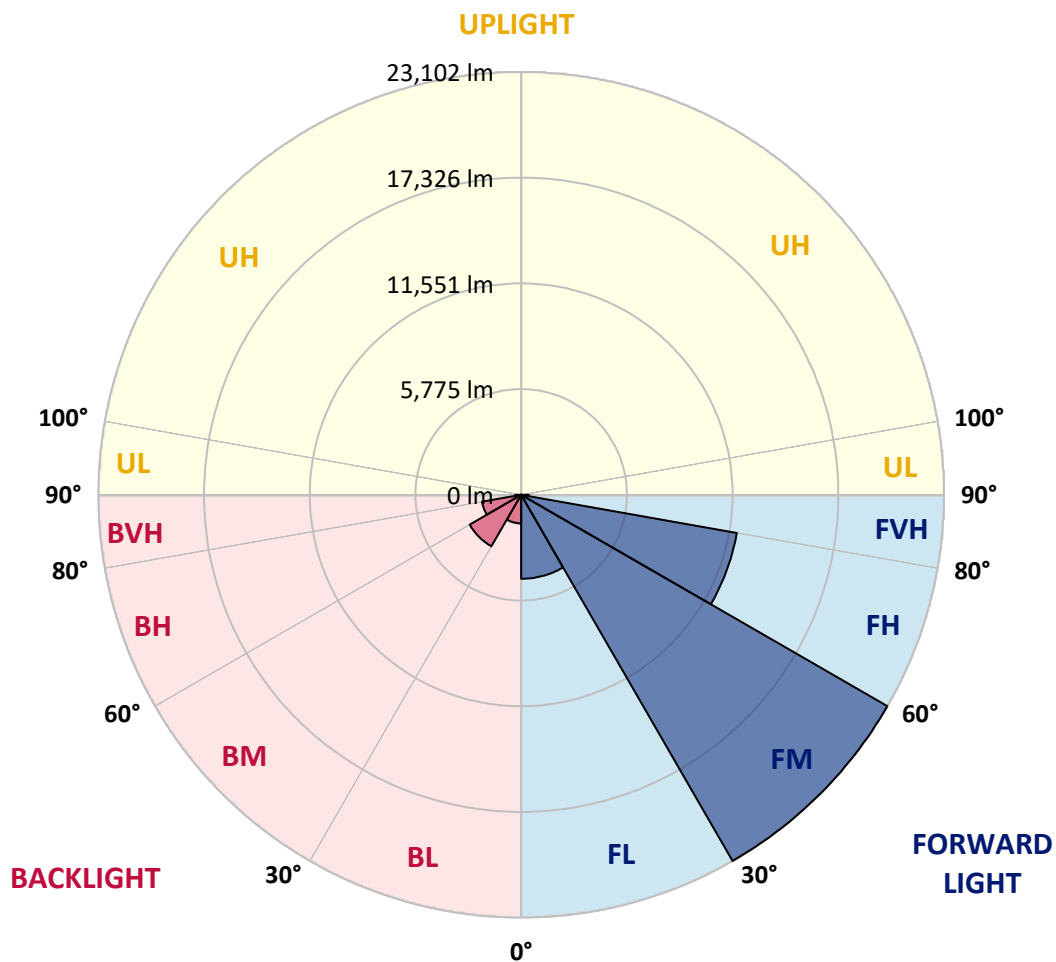
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4587.3	9.7			
FM (30°-60°)	23101.7	48.8			
FH (60°-80°)	11964.6	25.3			G4/12000
FVH (80°-90°)	410.0	0.9			G3/500
BL (0°-30°)	1561.8	3.3	B3/2500		
BM (30°-60°)	3250.6	6.9	B3/5000		
BH (60°-80°)	2171.0	4.6	B3/2500		G3/2500
BVH (80°-90°)	319.4	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°	3849.3	3849.3	3849.3	3849.3	3849.3	3849.3	3849.3	3849.3	3849.3	3849.3	3849.3
2.5°	4887.5	4833.6	4847.1	4757.5	4647.6	4504.0	4344.9	4342.6	4344.9	4329.2	4270.9
5°	6777.4	6712.3	6687.7	6485.9	6190.0	5768.6	5311.1	5261.8	5241.7	5190.0	5071.3
7.5°	8156.3	8120.3	8082.2	7929.8	7660.7	7189.9	6575.7	6470.2	6369.3	6344.6	6210.3
10°	9046.2	9037.3	8956.6	8916.1	8748.1	8340.0	7741.5	7640.5	7530.8	7492.6	7351.3
12.5°	9750.3	9748.0	9709.9	9721.1	9575.4	9279.4	8763.8	8671.9	8591.1	8474.5	8373.7
15°	10236.7	10238.9	10295.0	10357.7	10335.4	10135.8	9651.6	9611.2	9541.6	9460.9	9342.2
17.5°	10635.8	10647.0	10705.3	10819.6	10943.0	10927.3	10543.9	10510.2	10449.8	10339.9	10277.1
20°	11537.0	11579.6	11467.6	11467.6	11481.0	11541.6	11357.7	11330.9	11245.6	11187.3	11137.9
22.5°	13059.3	13108.6	12855.4	12597.6	12344.1	12160.3	11976.5	12010.1	11951.8	11911.4	11882.3
25°	15036.6	15074.8	14664.6	14229.6	13714.0	13041.5	12586.2	12566.1	12534.7	12510.1	12496.6
27.5°	16897.6	16913.2	16525.4	15888.6	15290.1	14323.7	13205.1	13180.4	13142.3	13095.2	13054.9
30°	18489.4	18484.9	18085.8	17478.2	16837.0	15767.6	14144.4	14068.1	13956.1	13828.2	13729.7
32.5°	19868.2	19861.3	19424.2	18794.2	18121.6	17198.0	15431.4	15274.4	15099.5	14850.6	14700.5
35°	20953.2	20948.7	20536.2	19879.3	19108.0	18545.4	16906.6	16713.7	16491.8	16157.8	15926.8
37.5°	21363.5	21363.5	21132.5	20684.2	20002.6	19616.9	18545.4	18312.2	18074.5	17695.6	17435.7
40°	21123.6	21128.0	21177.5	21094.4	20762.6	20466.8	20074.3	19935.4	19731.4	19390.5	19119.3
42.5°	20318.8	20343.3	20670.7	21072.0	21237.9	21190.8	21430.8	21368.0	21224.4	20962.2	20747.0
45°	19298.6	19374.9	19733.5	20491.3	21370.1	21816.3	22567.4	22574.1	22547.2	22406.0	22240.1
47.5°	17897.4	18005.1	18478.0	19502.7	21060.9	22423.9	23722.0	23782.5	23838.6	23746.7	23670.5
50°	16036.6	16164.5	16872.9	18231.6	20430.8	23053.9	25903.4	26176.9	26432.4	26401.1	26452.7
52.5°	14043.6	14193.8	15061.4	16574.6	19348.0	23199.6	27298.0	27744.1	28190.3	28555.6	28943.5
55°	12245.4	12164.8	13032.4	14626.5	17567.9	22542.7	28551.2	29089.3	29586.9	30035.3	30497.2
57.5°	9808.6	9940.7	10810.7	12386.8	15211.5	20688.7	29414.3	30201.2	30916.3	31658.4	32313.1
60°	7169.7	7302.1	8245.9	9846.6	12653.5	17877.3	28755.1	29947.9	31093.6	32230.2	33118.1
62.5°	4329.2	4427.8	5259.5	6784.1	9756.9	14543.5	25818.2	27383.2	29069.1	30427.7	31788.5
65°	2694.8	2750.9	3058.0	3896.5	6266.2	10857.8	21094.4	22800.6	24616.6	26340.6	27755.2
67.5°	2206.1	2226.3	2282.4	2461.6	3441.3	7080.0	15700.3	17211.3	18850.3	20518.2	22092.0
70°	1984.1	1970.7	1970.7	1981.9	2206.1	3806.7	10279.3	11263.5	12628.9	14079.5	15518.7
72.5°	1791.3	1777.8	1753.2	1719.5	1800.3	2322.7	5313.5	6055.5	7039.7	8328.8	9707.7
75°	1609.8	1591.7	1562.6	1520.0	1576.0	1753.2	2551.4	2863.0	3342.8	4028.8	4797.8
77.5°	1421.4	1399.0	1372.2	1340.7	1412.5	1363.1	1495.4	1607.4	1791.3	2011.0	2300.2
80°	1208.4	1188.2	1179.3	1163.6	1248.7	1038.0	1056.0	1125.4	1233.1	1351.9	1486.4
82.5°	946.2	946.2	981.9	988.8	1082.8	746.6	789.3	849.6	905.8	968.6	1031.3
85°	623.2	627.7	748.7	795.9	854.2	502.2	591.9	612.0	656.9	692.8	719.6
87.5°	195.0	210.7	457.3	506.6	491.0	284.8	363.2	372.2	403.6	428.2	450.6
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):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	3849.3	3849.3	3849.3	3849.3	3849.3	3849.3	3849.3	3849.3	3849.3	3849.3	3849.3
2.5°	4270.9	4244.0	4219.2	4217.2	4199.1	4174.6	4183.4	4145.4	4147.7	4127.4	4105.1
5°	5022.0	5004.0	4914.4	4889.7	4822.5	4779.8	4773.1	4683.5	4672.3	4620.6	4564.6
7.5°	6102.5	6044.2	5918.8	5858.1	5743.9	5658.7	5618.3	5499.6	5441.3	5306.6	5246.1
10°	7234.8	7160.7	7006.2	6920.9	6810.9	6674.2	6600.2	6427.6	6360.4	6237.1	6089.2
12.5°	8284.0	8210.0	8050.8	7985.8	7840.0	7694.3	7613.7	7418.7	7331.2	7133.9	7017.3
15°	9254.8	9180.8	9041.8	8974.4	8828.8	8710.0	8602.3	8409.6	8306.4	8122.6	7970.1
17.5°	10196.3	10117.9	9996.8	9936.3	9795.1	9673.9	9557.3	9375.8	9270.5	9086.5	8949.9
20°	11070.7	11012.4	10924.9	10844.2	10703.0	10593.3	10454.1	10297.2	10144.7	10010.4	9880.3
22.5°	11833.0	11810.6	11716.5	11680.5	11559.5	11465.2	11344.2	11189.6	11079.6	10909.2	10788.3
25°	12489.9	12483.1	12438.3	12427.2	12342.0	12252.3	12225.4	12097.6	11996.7	11846.4	11720.8
27.5°	13054.9	13061.5	13050.3	13081.7	13059.3	13019.0	13021.2	12978.6	12920.3	12794.7	12685.0
30°	13682.5	13646.7	13667.0	13711.6	13725.2	13729.7	13803.6	13828.2	13823.8	13740.8	13687.0
32.5°	14570.4	14485.2	14406.7	14400.0	14444.8	14462.8	14588.4	14653.3	14709.3	14729.6	14738.5
35°	15702.6	15532.1	15368.6	15281.1	15204.8	15225.1	15314.8	15420.0	15543.5	15628.6	15729.5
37.5°	17128.4	16919.9	16630.7	16424.5	16372.9	16260.8	16319.1	16402.1	16523.2	16655.5	16830.3
40°	18857.0	18540.8	18215.8	17942.2	17794.3	17588.0	17585.8	17570.0	17644.1	17767.3	18014.0
42.5°	20520.5	20240.3	19895.0	19608.1	19415.2	19139.5	19083.5	18937.7	18971.3	19078.9	19318.8
45°	22078.6	21847.8	21636.9	21305.2	21141.5	20843.4	20749.2	20576.5	20480.2	20529.4	20769.4
47.5°	23587.4	23439.6	23219.7	23004.5	22879.0	22612.2	22491.1	22367.8	22244.5	22240.1	22491.1
50°	26528.9	26450.5	26190.4	25966.1	26026.8	25699.4	25719.6	25387.8	25537.9	25555.9	26082.7
52.5°	29293.2	29566.8	29759.6	29994.9	30147.4	30176.6	30277.5	30427.7	30609.2	30968.0	31456.7
55°	30876.1	31219.1	31418.6	31597.9	31894.0	31956.7	32124.7	32324.3	32483.5	32887.0	33301.8
57.5°	32757.1	33393.8	33703.1	33987.8	34386.8	34539.4	34819.7	35037.1	35243.4	35720.9	36223.1
60°	33916.1	34691.9	35321.8	35772.5	36272.4	36631.2	37054.8	37395.6	37879.9	38451.6	39200.3
62.5°	32994.7	34133.5	34969.8	35743.3	36422.6	37108.7	37716.1	38353.0	39088.3	39953.6	41115.1
65°	29324.6	30483.8	31916.3	32719.0	33617.9	34676.2	35599.8	36631.2	37633.2	38893.2	40610.5
67.5°	23607.6	24955.1	26564.8	27374.1	28407.7	29589.2	30624.9	31884.9	33055.2	34582.1	36705.1
70°	17016.4	18758.3	20112.5	20957.6	22163.8	23381.3	24381.2	25847.4	26815.9	28380.8	30575.6
72.5°	10774.8	12149.0	13808.1	14873.1	15944.6	17177.7	18200.1	19464.6	20368.1	21793.9	23782.5
75°	5793.2	6806.5	8263.8	9274.9	10422.9	11476.4	12673.6	13521.2	14189.3	15317.0	16931.2
77.5°	2714.9	3331.5	4069.1	4847.1	5625.0	6436.6	7225.7	7911.8	8198.8	8844.4	9797.3
80°	1647.9	1847.4	2062.6	2302.4	2627.5	2889.8	3237.3	3488.5	3506.4	3710.4	4001.9
82.5°	1100.9	1174.8	1239.8	1300.3	1383.3	1448.2	1522.3	1609.8	1645.5	1692.6	1786.8
85°	751.1	786.9	800.4	838.5	829.6	852.0	881.1	910.3	926.0	923.6	966.2
87.5°	461.9	479.8	488.8	497.8	491.0	482.0	495.4	511.1	515.6	502.2	506.6
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°	3849.3	3849.3	3849.3	3849.3	3849.3	3849.3	3849.3	3849.3	3849.3	3849.3	3849.3
2.5°	4109.4	4089.4	4069.1	4055.7	4051.1	3932.4	3880.8	3847.3	3775.4	3717.1	3670.0
5°	4533.1	4490.5	4457.0	4416.6	4394.1	4093.8	3984.0	3907.6	3782.1	3708.2	3640.9
7.5°	5214.8	5095.9	5026.5	4948.0	4880.8	4338.2	4156.5	4037.7	3862.9	3764.2	3688.0
10°	5988.2	5864.9	5755.1	5634.0	5528.6	4663.2	4398.7	4214.8	3984.0	3856.2	3755.3
12.5°	6851.5	6730.3	6591.4	6436.6	6302.1	5075.8	4708.0	4445.8	4129.7	3959.3	3818.1
15°	7871.5	7658.5	7490.3	7310.9	7154.0	5569.0	5069.0	4705.9	4284.3	4053.4	3865.0
17.5°	8819.7	8595.6	8367.0	8210.0	8028.4	6122.8	5432.2	4970.4	4412.1	4114.0	3874.1
20°	9745.7	9501.4	9304.0	9093.4	8902.7	6696.7	5820.1	5203.5	4495.1	4116.3	3818.1
22.5°	10561.8	10409.3	10189.7	9960.9	9768.2	7270.6	6183.3	5400.8	4526.5	4064.7	3719.4
25°	11490.0	11328.5	11059.6	10866.6	10651.5	7855.8	6539.8	5553.3	4508.6	3968.3	3566.9
27.5°	12481.0	12301.6	12025.8	11824.0	11563.9	8463.3	6867.1	5663.2	4441.3	3811.2	3363.0
30°	13514.5	13350.8	13079.5	12875.4	12613.2	9106.7	7232.6	5737.1	4306.7	3593.8	3125.3
32.5°	14624.1	14487.4	14218.5	14005.5	13725.2	9804.0	7573.3	5759.6	4102.7	3336.0	2874.1
35°	15677.8	15583.7	15357.3	15157.8	14866.3	10463.2	7934.2	5748.3	3860.6	3053.5	2645.5
37.5°	16863.9	16807.8	16695.8	16442.4	16085.9	11357.7	8367.0	5701.3	3564.7	2773.2	2470.6
40°	18128.3	18132.8	18011.7	17839.1	17507.3	12442.9	8882.6	5609.3	3241.9	2526.7	2311.5
42.5°	19466.8	19536.2	19477.9	19354.7	19036.3	13536.9	9499.0	5497.3	2927.9	2286.7	2154.6
45°	21000.2	21085.5	21175.1	20993.6	20684.2	14980.7	10310.7	5351.6	2589.5	2087.2	2046.9
47.5°	22769.2	22903.6	22984.5	22986.6	22677.3	16769.7	11629.0	5264.1	2289.1	1952.7	1995.3
50°	26502.1	26544.6	26735.1	27067.0	26829.4	20910.7	13931.5	5210.3	2085.0	1869.8	1957.1
52.5°	31880.5	32349.0	32678.6	32656.2	32333.4	23540.4	15200.4	4932.2	1964.0	1838.4	1939.4
55°	34070.8	34656.0	35265.8	35427.1	35176.1	25784.6	16399.7	4654.3	1905.7	1860.7	1946.0
57.5°	36989.9	37976.2	38812.4	39164.6	38801.3	28656.6	17978.1	4508.6	1887.7	1921.4	1988.6
60°	40399.8	41619.5	42718.0	43350.2	43350.2	31956.7	19614.9	4448.0	1863.1	2011.0	2060.4
62.5°	42590.3	44381.5	46040.6	46966.4	46939.6	34254.7	20341.2	4241.7	1807.0	2073.7	2158.9
65°	42599.2	44729.0	46843.1	47883.4	47937.2	33972.2	19141.8	3746.3	1703.8	2082.8	2257.6
67.5°	39048.0	41319.0	43782.9	44946.4	45215.5	31272.9	16570.2	3080.5	1535.7	1993.1	2293.6
70°	32978.9	35196.3	37711.7	38855.1	39332.6	26659.0	13346.3	2374.2	1320.5	1795.8	2219.5
72.5°	25981.9	28156.6	29907.5	30743.8	31115.9	20377.1	9718.9	1793.6	1082.8	1513.4	2020.0
75°	18395.1	20027.4	20957.6	21143.8	21202.1	12283.7	5905.3	1334.0	892.2	1177.0	1706.2
77.5°	10382.4	11081.9	11005.8	11088.7	10398.2	4741.8	2571.5	955.1	735.4	894.5	1322.8
80°	4053.4	4178.9	3925.7	3847.3	3528.8	1764.5	1134.4	665.9	587.4	677.1	926.0
82.5°	1786.8	1845.1	1791.3	1804.8	1726.4	910.3	679.3	482.0	448.3	495.4	614.4
85°	984.3	1002.1	997.7	1026.9	984.3	363.2	322.9	295.9	313.9	336.2	394.5
87.5°	479.8	484.2	468.6	493.2	477.4	183.9	159.2	168.2	183.9	188.4	188.4
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°	3849.3	3849.3	3849.3	3849.3	3849.3	3849.3
2.5°	3636.3	3618.6	3620.8	3616.2	3607.2	3607.2
5°	3605.1	3587.1	3587.1	3582.6	3571.4	3573.6
7.5°	3636.3	3607.2	3596.1	3580.4	3564.7	3564.7
10°	3672.4	3620.8	3589.4	3562.5	3542.2	3542.2
12.5°	3699.2	3618.6	3566.9	3531.1	3510.8	3510.8
15°	3708.2	3602.8	3531.1	3488.5	3470.5	3468.3
17.5°	3679.0	3542.2	3454.8	3405.6	3383.0	3376.4
20°	3589.4	3432.5	3327.1	3271.0	3239.6	3228.4
22.5°	3454.8	3275.5	3152.2	3093.9	3053.5	3046.8
25°	3266.4	3073.7	2952.6	2896.6	2874.1	2867.4
27.5°	3046.8	2867.4	2764.4	2728.4	2708.3	2706.1
30°	2838.4	2685.8	2609.7	2582.6	2558.1	2553.6
32.5°	2643.3	2546.9	2517.7	2479.6	2421.3	2414.6
35°	2504.3	2495.3	2475.1	2389.9	2318.2	2298.0
37.5°	2419.0	2502.0	2398.8	2230.8	2179.2	2174.6
40°	2369.6	2432.5	2255.5	2197.2	2201.6	2197.2
42.5°	2257.6	2322.7	2259.9	2232.9	2251.0	2255.5
45°	2145.5	2217.2	2293.6	2275.5	2318.2	2318.2
47.5°	2082.8	2190.3	2291.2	2291.2	2354.1	2376.5
50°	2011.0	2168.0	2255.5	2286.7	2336.1	2318.2
52.5°	2006.5	2129.8	2203.8	2259.9	2282.4	2262.1
55°	2013.3	2098.5	2152.2	2215.0	2241.9	2244.1
57.5°	2022.3	2080.6	2116.3	2145.5	2226.3	2226.3
60°	2044.6	2064.8	2085.0	2100.6	2206.1	2208.4
62.5°	2080.6	2049.2	2044.6	2060.4	2194.9	2185.8
65°	2136.6	2026.8	1993.1	2008.8	2183.7	2156.7
67.5°	2212.7	1993.1	1928.1	1939.4	2174.6	2116.3
70°	2282.4	1939.4	1847.4	1836.1	2089.5	1986.3
72.5°	2289.1	1876.5	1735.3	1701.6	1816.0	1717.3
75°	2177.0	1833.9	1612.0	1513.4	1499.9	1486.4
77.5°	1961.7	1809.2	1468.5	1313.9	1286.9	1295.8
80°	1641.2	1717.3	1295.8	1112.0	1257.7	1242.0
82.5°	1226.4	1515.5	1100.9	984.3	981.9	867.7
85°	681.5	1181.5	896.8	737.6	513.4	497.8
87.5°	190.6	656.9	627.7	417.1	284.8	295.9
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)