

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: P193157

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193157  
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  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 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: 53619 lumens  
Efficiency: N/A  
Efficacy: 107.0 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 - G5

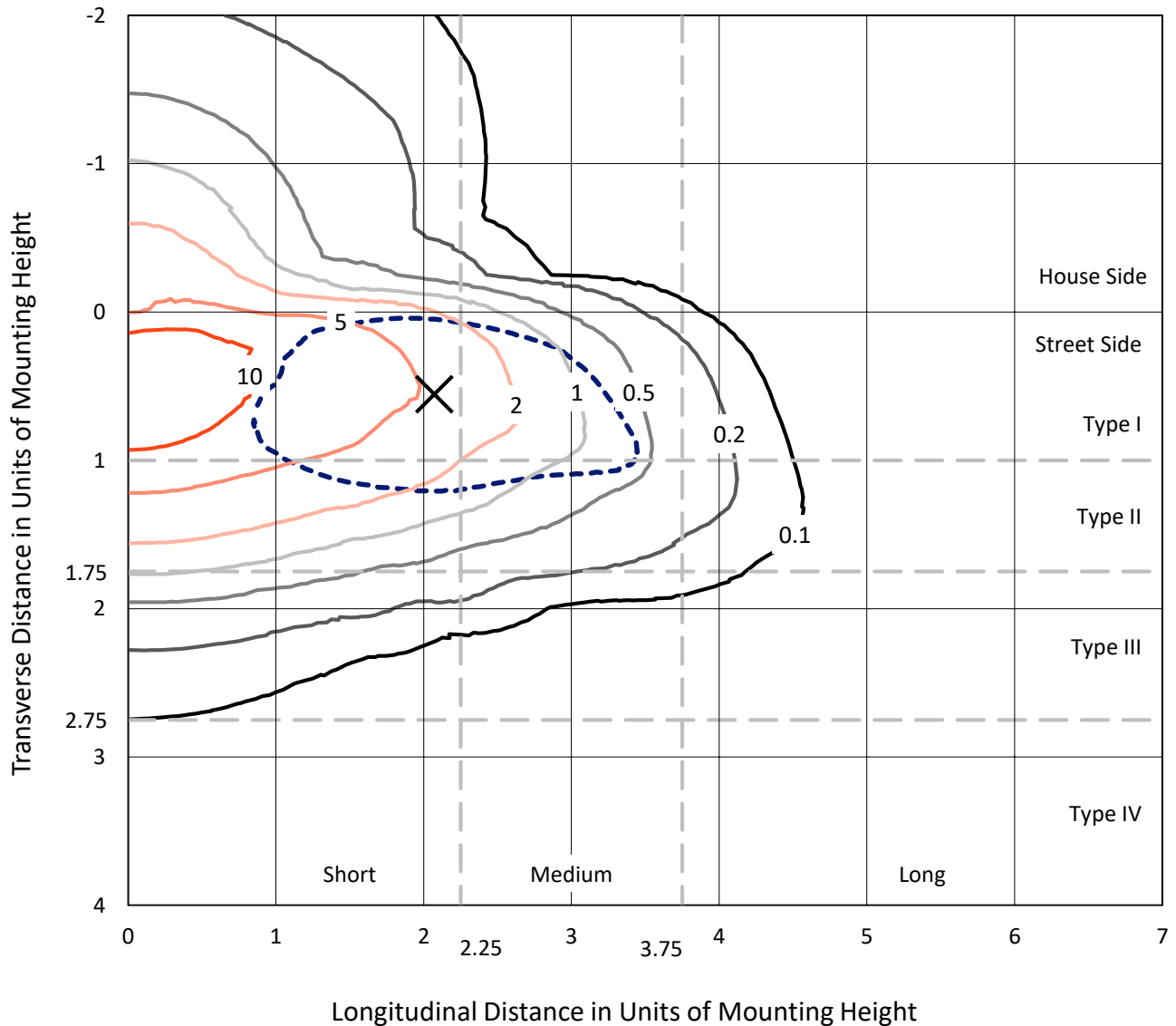
Input Watts (W): 501  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

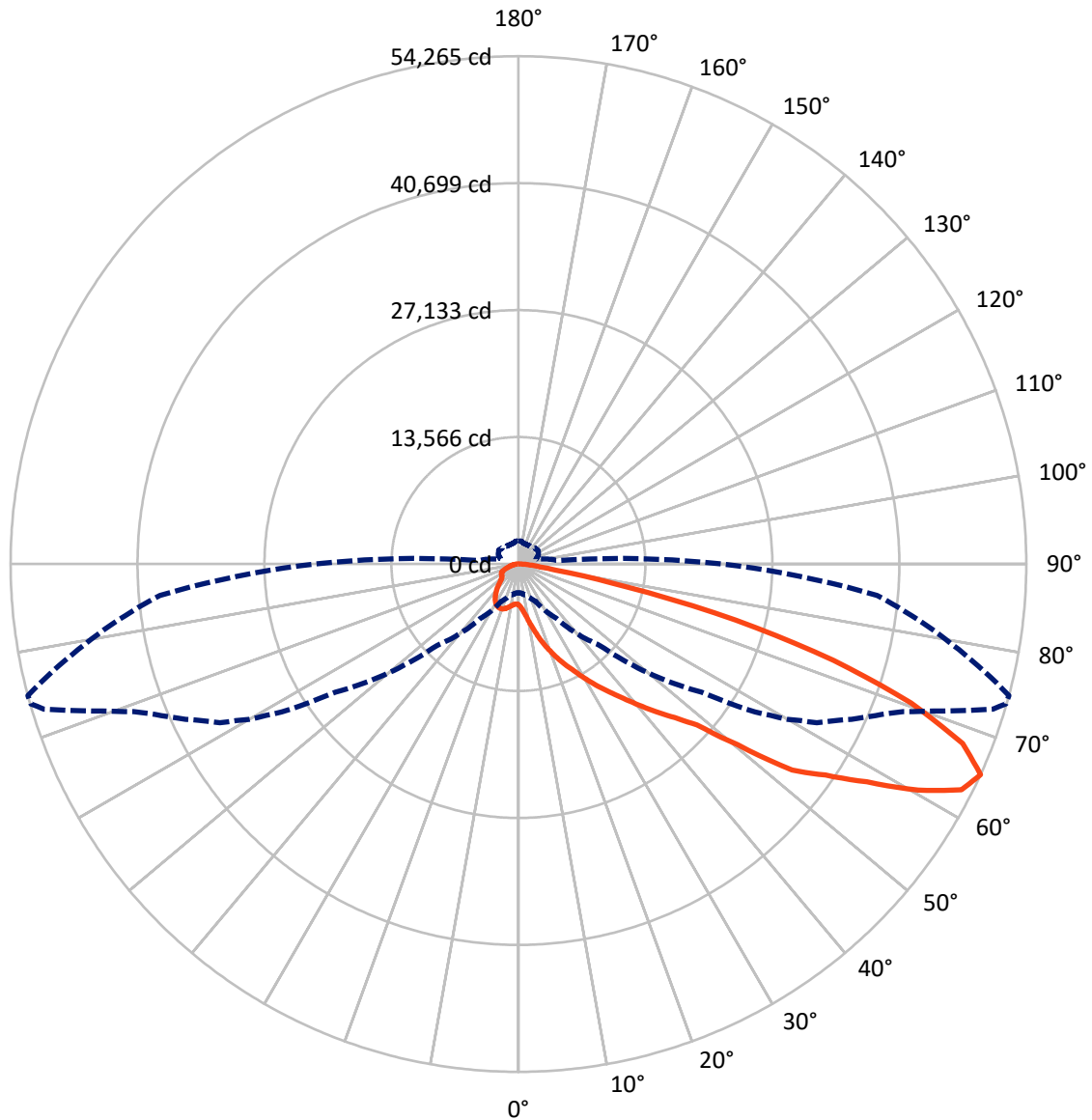
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 15 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
<b>House Side</b>	Lumens	8266.8	0.0	8266.8
	% Fixture	15.4	0.0	15.4
<b>Street Side</b>	Lumens	45352.2	0.0	45352.2
	% Fixture	84.6	0.0	84.6
<b>Total</b>	Lumens	53619.0	0.0	53619.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	538.6	1.0
10°-20°	2104.5	3.9
20°-30°	4317.7	8.1
30°-40°	7264.3	13.5
40°-50°	10037.2	18.7
50°-60°	12529.4	23.4
60°-70°	11275.1	21.0
70°-80°	4726.4	8.8
80°-90°	825.7	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°	53619.0	100.0
0°-180°	53619.0	100.0

**Coefficient of Utilization**



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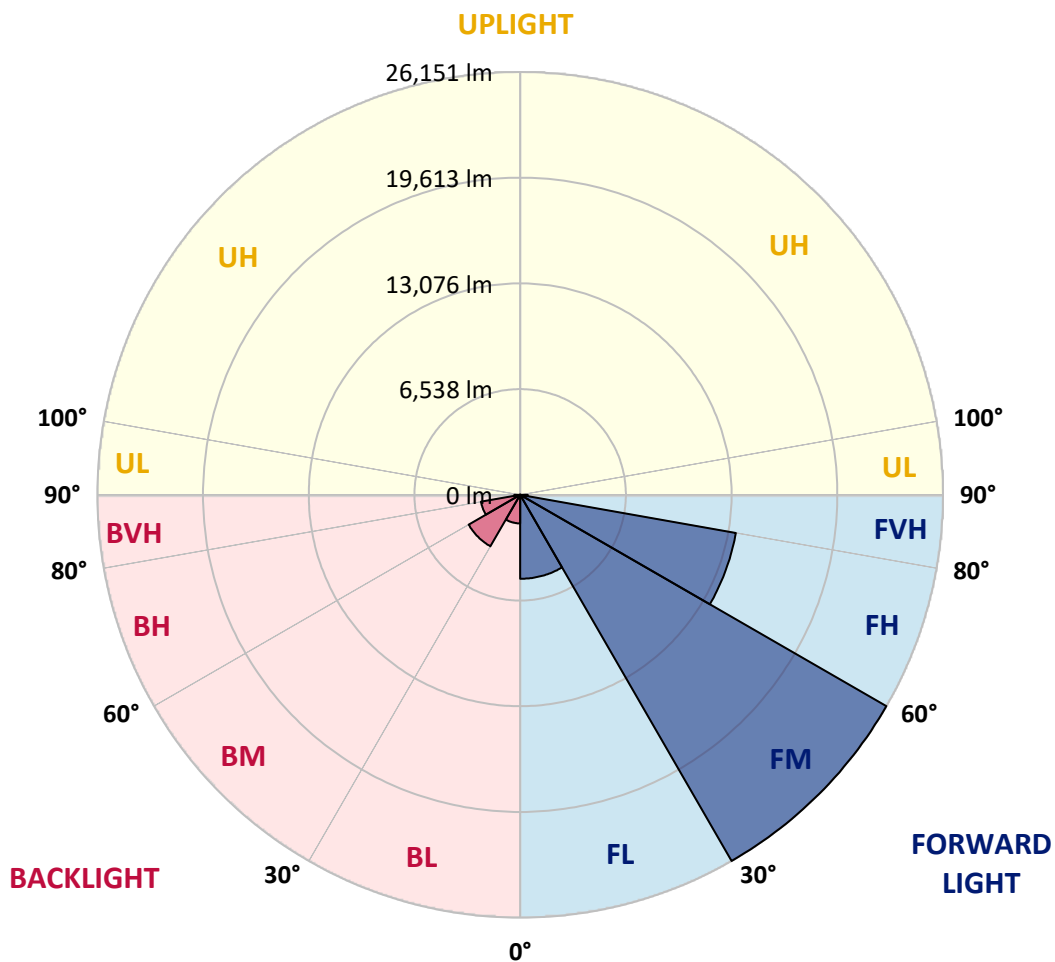
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5192.8	9.7			
FM	(30°-60°)	26151.3	48.8			
FH	(60°-80°)	13544.0	25.3			G5
FVH	(80°-90°)	464.1	0.9			G3/500
BL	(0°-30°)	1767.9	3.3	B3/2500		
BM	(30°-60°)	3679.7	6.9	B3/5000		
BH	(60°-80°)	2457.6	4.6	B3/2500		G3/2500
BVH	(80°-90°)	361.6	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-G5**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	4357.6	4357.6	4357.6	4357.6	4357.6	4357.6	4357.6	4357.6	4357.6	4357.6	4357.6
2.5°	5532.6	5471.7	5486.9	5385.4	5261.1	5098.6	4918.5	4915.9	4918.5	4900.8	4834.7
5°	7672.0	7598.4	7570.6	7342.1	7007.2	6530.0	6012.3	5956.5	5933.7	5875.2	5740.7
7.5°	9232.9	9192.3	9149.2	8976.5	8672.0	8139.0	7443.7	7324.4	7210.1	7182.2	7030.0
10°	10240.5	10230.3	10138.9	10093.3	9902.8	9441.0	8763.3	8649.2	8524.9	8481.7	8321.7
12.5°	11037.3	11034.7	10991.6	11004.3	10839.4	10504.4	9920.6	9816.6	9725.1	9593.3	9479.0
15°	11588.0	11590.6	11654.0	11725.0	11699.7	11473.9	10925.6	10879.9	10801.3	10709.9	10575.4
17.5°	12039.9	12052.5	12118.5	12247.9	12387.5	12369.7	11935.7	11897.7	11829.2	11704.7	11633.7
20°	13060.0	13108.3	12981.3	12981.3	12996.6	13065.1	12857.0	12826.5	12730.2	12664.1	12608.3
22.5°	14783.3	14839.0	14552.4	14260.4	13973.6	13765.6	13557.4	13595.4	13529.6	13483.8	13450.8
25°	17021.7	17064.7	16600.5	16108.0	15524.3	14762.9	14247.7	14224.9	14189.4	14161.4	14146.3
27.5°	19128.1	19145.9	18706.9	17986.0	17308.5	16214.6	14948.2	14920.3	14877.2	14823.9	14778.2
30°	20930.0	20925.0	20473.2	19785.4	19059.6	17849.0	16011.6	15925.3	15798.5	15653.8	15542.1
32.5°	22490.8	22483.3	21988.3	21275.2	20513.9	19468.3	17468.4	17290.8	17092.7	16811.0	16640.9
35°	23719.2	23714.0	23247.1	22503.5	21630.5	20993.5	19138.3	18920.0	18668.8	18290.6	18029.2
37.5°	24183.7	24183.7	23922.2	23414.6	22643.1	22206.6	20993.5	20729.5	20460.6	20031.6	19737.2
40°	23912.1	23917.2	23973.0	23879.0	23503.5	23168.4	22724.3	22567.0	22336.0	21950.3	21643.1
42.5°	23000.9	23028.9	23399.4	23853.7	24041.5	23988.2	24259.7	24188.7	24026.2	23729.4	23485.8
45°	21846.2	21932.4	22338.6	23196.4	24191.2	24696.3	25546.5	25554.1	25523.6	25363.8	25175.9
47.5°	20260.1	20381.9	20917.3	22077.2	23841.0	25383.9	26853.5	26922.0	26985.4	26881.4	26795.1
50°	18153.5	18298.2	19100.1	20638.2	23127.9	26097.2	29322.9	29632.4	29921.8	29886.2	29944.6
52.5°	15897.3	16067.4	17049.6	18762.6	21902.0	26262.1	30901.5	31406.5	31911.5	32325.2	32764.2
55°	13861.9	13770.6	14752.8	16557.2	19887.0	25518.6	32320.1	32929.2	33492.7	34000.2	34522.9
57.5°	11103.3	11253.0	12237.7	14021.9	17219.6	23419.7	33297.2	34188.0	34997.6	35837.6	36578.7
60°	8116.3	8265.9	9334.3	11146.4	14323.9	20237.2	32551.1	33901.2	35198.1	36484.8	37489.8
62.5°	4900.8	5012.4	5953.9	7679.8	11044.9	16463.3	29226.5	30997.8	32906.3	34444.3	35984.9
65°	3050.5	3114.0	3461.7	4410.9	7093.4	12291.0	23879.0	25810.5	27866.1	29817.7	31419.1
67.5°	2497.3	2520.2	2583.6	2786.6	3895.6	8014.7	17772.8	19483.4	21338.7	23226.9	25008.5
70°	2246.1	2230.8	2230.8	2243.5	2497.3	4309.3	11636.2	12750.3	14295.9	15937.9	17567.4
72.5°	2027.8	2012.5	1984.5	1946.6	2037.9	2629.3	6014.8	6854.8	7969.1	9428.3	10989.1
75°	1822.2	1801.9	1768.9	1720.8	1784.1	1984.5	2888.2	3240.8	3783.9	4560.6	5431.1
77.5°	1609.1	1583.6	1553.2	1517.6	1598.9	1543.1	1692.8	1819.7	2027.8	2276.5	2603.8
80°	1367.9	1345.1	1334.9	1317.1	1413.6	1175.1	1195.3	1274.1	1395.9	1530.4	1682.6
82.5°	1071.0	1071.0	1111.6	1119.3	1225.8	845.1	893.3	961.8	1025.3	1096.4	1167.4
85°	705.5	710.6	847.7	901.0	967.0	568.4	670.0	692.8	743.6	784.3	814.6
87.5°	220.8	238.5	517.8	573.6	555.8	322.4	411.2	421.3	456.8	484.8	510.1
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°	4357.6	4357.6	4357.6	4357.6	4357.6	4357.6	4357.6	4357.6	4357.6	4357.6	4357.6
2.5°	4834.7	4804.2	4776.3	4773.7	4753.5	4725.6	4735.8	4692.5	4695.1	4672.3	4646.9
5°	5684.9	5664.5	5563.1	5535.2	5459.0	5410.8	5403.2	5301.7	5289.0	5230.6	5167.2
7.5°	6908.1	6842.2	6700.0	6631.5	6502.1	6405.7	6360.0	6225.5	6159.5	6007.2	5938.7
10°	8189.7	8106.1	7930.9	7834.4	7710.1	7555.3	7471.5	7276.1	7199.9	7060.5	6892.9
12.5°	9377.5	9293.8	9113.6	9040.0	8875.0	8710.0	8618.7	8397.8	8298.9	8075.6	7943.5
15°	10476.5	10392.6	10235.3	10159.2	9994.3	9859.8	9737.9	9519.6	9402.9	9194.8	9022.2
17.5°	11542.3	11453.5	11316.5	11247.9	11088.0	10951.0	10819.1	10613.5	10494.3	10286.1	10131.3
20°	12532.1	12466.2	12367.2	12275.9	12115.9	11991.5	11834.2	11656.6	11484.0	11331.8	11184.6
22.5°	13394.9	13369.6	13263.1	13222.4	13085.4	12978.8	12841.8	12666.7	12542.3	12349.3	12212.4
25°	14138.5	14131.0	14080.2	14067.5	13971.1	13869.6	13839.1	13694.4	13580.3	13410.3	13268.1
27.5°	14778.2	14785.8	14773.1	14808.7	14783.3	14737.6	14740.0	14691.9	14625.9	14483.7	14359.4
30°	15488.8	15448.1	15471.0	15521.8	15537.0	15542.1	15625.8	15653.8	15648.6	15554.8	15493.8
32.5°	16493.8	16397.3	16308.5	16300.9	16351.6	16372.0	16514.1	16587.7	16651.1	16673.9	16684.1
35°	17775.4	17582.5	17397.3	17298.3	17212.0	17234.9	17336.3	17455.7	17595.2	17691.7	17805.9
37.5°	19389.4	19153.4	18826.1	18592.6	18534.3	18407.4	18473.3	18567.3	18704.3	18854.0	19052.0
40°	21346.2	20988.3	20620.4	20310.8	20143.2	19909.8	19907.2	19889.4	19973.2	20112.9	20392.0
42.5°	23229.4	22912.1	22521.3	22196.4	21978.1	21666.0	21602.5	21437.6	21475.7	21597.5	21869.0
45°	24993.2	24731.8	24493.2	24117.7	23932.3	23594.9	23488.2	23292.8	23183.7	23239.6	23511.1
47.5°	26701.3	26533.7	26284.9	26041.4	25899.3	25597.3	25460.1	25320.7	25181.0	25175.9	25460.1
50°	30030.9	29942.1	29647.7	29393.9	29462.5	29091.9	29114.8	28739.1	28909.1	28929.4	29525.9
52.5°	33160.1	33469.8	33688.0	33954.5	34127.1	34160.1	34274.3	34444.3	34649.9	35056.0	35609.2
55°	34951.9	35340.2	35566.1	35769.1	36104.0	36175.2	36365.6	36591.4	36771.5	37228.5	37697.9
57.5°	37081.2	37801.9	38152.2	38474.5	38926.3	39098.9	39416.1	39662.2	39895.7	40436.3	41004.8
60°	38393.2	39271.4	39984.5	40494.6	41060.6	41466.7	41946.4	42332.1	42880.3	43527.5	44375.1
62.5°	37350.2	38639.4	39586.2	40461.7	41230.6	42007.2	42695.0	43415.8	44248.3	45227.9	46542.5
65°	33195.7	34507.8	36129.6	37038.1	38055.8	39253.7	40299.3	41466.7	42601.2	44027.4	45971.5
67.5°	26724.0	28249.3	30071.5	30987.7	32157.7	33495.2	34667.6	36094.1	37418.8	39147.0	41550.4
70°	19262.6	21234.5	22767.5	23724.2	25089.6	26467.7	27599.7	29259.4	30355.8	32127.2	34611.8
72.5°	12197.1	13752.9	15630.9	16836.5	18049.5	19445.3	20602.7	22034.0	23056.8	24670.8	26922.0
75°	6558.0	7705.1	9354.7	10499.3	11798.7	12991.5	14346.8	15306.0	16062.3	17338.9	19166.1
77.5°	3073.4	3771.3	4606.3	5486.9	6367.6	7286.3	8179.5	8956.2	9281.1	10012.0	11090.6
80°	1865.4	2091.2	2334.9	2606.4	2974.4	3271.3	3664.8	3948.9	3969.3	4200.3	4530.1
82.5°	1246.1	1329.9	1403.4	1471.9	1565.9	1639.4	1723.2	1822.2	1862.9	1916.1	2022.7
85°	850.1	890.8	906.0	949.1	939.0	964.4	997.4	1030.5	1048.2	1045.6	1093.8
87.5°	522.8	543.1	553.3	563.4	555.8	545.6	560.8	578.6	583.7	568.4	573.6
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°	4357.6	4357.6	4357.6	4357.6	4357.6	4357.6	4357.6	4357.6	4357.6	4357.6	4357.6
2.5°	4651.9	4629.1	4606.3	4591.1	4585.9	4451.4	4393.1	4355.1	4273.7	4207.8	4154.6
5°	5131.6	5083.4	5045.4	4999.7	4974.2	4634.2	4509.9	4423.6	4281.5	4197.6	4121.6
7.5°	5903.2	5768.7	5690.0	5601.1	5525.0	4910.8	4705.2	4570.8	4372.8	4261.1	4174.8
10°	6778.8	6639.1	6514.8	6377.7	6258.5	5278.9	4979.4	4771.3	4509.9	4365.2	4250.9
12.5°	7755.8	7618.7	7461.5	7286.3	7134.0	5745.8	5329.5	5032.7	4674.7	4482.0	4322.1
15°	8910.5	8669.5	8479.1	8276.1	8098.4	6304.2	5738.2	5327.1	4849.9	4588.6	4375.3
17.5°	9984.1	9730.3	9471.4	9293.8	9088.1	6931.0	6149.3	5626.6	4994.6	4657.0	4385.4
20°	11032.2	10755.6	10532.3	10293.8	10078.0	7580.7	6588.4	5890.5	5088.5	4659.6	4322.1
22.5°	11956.0	11783.5	11534.7	11275.9	11057.6	8230.4	6999.4	6113.8	5124.0	4601.2	4210.5
25°	13006.8	12824.0	12519.5	12301.2	12057.6	8892.8	7403.1	6286.3	5103.7	4492.0	4037.7
27.5°	14128.5	13925.4	13613.2	13385.0	13090.5	9580.5	7773.6	6410.7	5027.6	4314.4	3806.8
30°	15298.5	15113.2	14806.0	14575.1	14278.2	10308.9	8187.3	6494.5	4875.2	4068.3	3537.9
32.5°	16554.8	16400.0	16095.3	15854.3	15537.0	11098.2	8573.0	6519.8	4644.4	3776.4	3253.6
35°	17747.5	17640.9	17384.6	17158.7	16828.7	11844.4	8981.6	6507.2	4370.3	3456.6	2994.7
37.5°	19090.1	19026.6	18899.6	18613.0	18209.3	12857.0	9471.4	6453.8	4035.3	3139.3	2796.7
40°	20521.4	20526.5	20389.4	20194.1	19818.4	14085.3	10055.1	6349.8	3669.8	2860.2	2616.5
42.5°	22036.5	22115.2	22049.3	21909.6	21549.3	15323.8	10753.1	6223.0	3314.5	2588.7	2438.8
45°	23772.5	23868.9	23970.4	23764.9	23414.6	16958.2	11671.8	6058.0	2931.3	2362.7	2317.1
47.5°	25775.0	25927.1	26018.6	26021.0	25670.8	18983.5	13164.1	5959.0	2591.2	2210.6	2258.7
50°	30000.5	30048.7	30264.4	30640.0	30371.1	23670.9	15770.5	5898.1	2360.2	2116.6	2215.6
52.5°	36088.9	36619.4	36992.4	36967.0	36601.6	26647.9	17206.9	5583.3	2223.2	2081.1	2195.2
55°	38568.4	39230.8	39921.1	40103.8	39819.6	29188.4	18564.7	5268.7	2157.3	2106.4	2202.8
57.5°	41872.7	42989.4	43936.1	44334.4	43923.5	32439.4	20351.4	5103.7	2136.9	2175.1	2251.1
60°	45732.8	47113.4	48357.0	49072.8	49072.8	36175.2	22204.1	5035.2	2109.0	2276.5	2332.3
62.5°	48212.4	50240.2	52118.2	53166.4	53135.9	38776.5	23026.3	4801.7	2045.6	2347.6	2444.0
65°	48222.5	50633.6	53026.8	54204.4	54265.2	38456.7	21668.6	4240.8	1928.8	2357.7	2555.7
67.5°	44202.6	46773.5	49562.6	50879.8	51184.2	35401.1	18757.6	3487.1	1738.5	2256.2	2596.2
70°	37332.5	39842.5	42690.0	43984.3	44524.9	30178.2	15108.1	2687.7	1494.7	2032.9	2512.5
72.5°	29411.7	31873.4	33855.5	34802.2	35223.4	23067.0	11001.8	2030.4	1225.8	1713.0	2286.7
75°	20823.4	22671.1	23724.2	23934.9	24000.9	13905.1	6684.8	1510.1	1010.1	1332.4	1931.3
77.5°	11753.0	12544.8	12458.5	12552.5	11770.7	5367.7	2911.0	1081.1	832.4	1012.7	1497.4
80°	4588.6	4730.6	4443.9	4355.1	3994.6	1997.4	1284.2	753.8	665.0	766.5	1048.2
82.5°	2022.7	2088.7	2027.8	2043.0	1954.2	1030.5	768.9	545.6	507.6	560.8	695.4
85°	1114.1	1134.4	1129.4	1162.4	1114.1	411.2	365.5	335.0	355.3	380.7	446.7
87.5°	543.1	548.2	530.5	558.4	540.7	208.1	180.2	190.3	208.1	213.2	213.2
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°	4357.6	4357.6	4357.6	4357.6	4357.6	4357.6
2.5°	4116.5	4096.1	4098.8	4093.6	4083.4	4083.4
5°	4081.0	4060.6	4060.6	4055.6	4042.9	4045.5
7.5°	4116.5	4083.4	4070.8	4053.0	4035.3	4035.3
10°	4157.1	4098.8	4063.2	4032.8	4010.0	4010.0
12.5°	4187.6	4096.1	4037.7	3997.1	3974.3	3974.3
15°	4197.6	4078.4	3997.1	3948.9	3928.6	3926.1
17.5°	4164.6	4010.0	3910.9	3855.1	3829.6	3822.1
20°	4063.2	3885.5	3766.2	3702.8	3667.3	3654.6
22.5°	3910.9	3707.8	3568.3	3502.3	3456.6	3449.0
25°	3697.7	3479.5	3342.5	3279.0	3253.6	3246.0
27.5°	3449.0	3246.0	3129.1	3088.6	3065.9	3063.2
30°	3213.0	3040.3	2954.2	2923.7	2895.7	2890.7
32.5°	2992.2	2883.1	2850.0	2806.9	2740.9	2733.3
35°	2834.8	2824.7	2801.9	2705.4	2624.2	2601.4
37.5°	2738.4	2832.3	2715.5	2525.2	2466.8	2461.7
40°	2682.6	2753.7	2553.2	2487.2	2492.2	2487.2
42.5°	2555.7	2629.3	2558.2	2527.7	2548.0	2553.2
45°	2428.8	2510.0	2596.2	2576.0	2624.2	2624.2
47.5°	2357.7	2479.5	2593.7	2593.7	2664.9	2690.2
50°	2276.5	2454.2	2553.2	2588.7	2644.5	2624.2
52.5°	2271.4	2411.1	2494.7	2558.2	2583.6	2560.7
55°	2279.0	2375.6	2436.4	2507.4	2537.9	2540.4
57.5°	2289.2	2355.2	2395.7	2428.8	2520.2	2520.2
60°	2314.5	2337.4	2360.2	2378.0	2497.3	2499.9
62.5°	2355.2	2319.7	2314.5	2332.3	2484.5	2474.4
65°	2418.6	2294.2	2256.2	2273.9	2471.9	2441.5
67.5°	2504.9	2256.2	2182.6	2195.2	2461.7	2395.7
70°	2583.6	2195.2	2091.2	2078.5	2365.4	2248.5
72.5°	2591.2	2124.2	1964.4	1926.2	2055.7	1944.0
75°	2464.4	2076.0	1824.7	1713.0	1697.9	1682.6
77.5°	2220.7	2048.1	1662.3	1487.2	1456.8	1467.0
80°	1857.7	1944.0	1467.0	1258.7	1423.7	1405.9
82.5°	1388.2	1715.6	1246.1	1114.1	1111.6	982.1
85°	771.5	1337.5	1015.1	835.0	581.1	563.4
87.5°	215.7	743.6	710.6	472.0	322.4	335.0
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)