

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: P324094

Luminaire Tested: **GAN-SA0C-727-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324094
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-27)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0C-727-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43404 lumens
Efficiency: N/A
Efficacy: 77.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 558
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: 24 FT



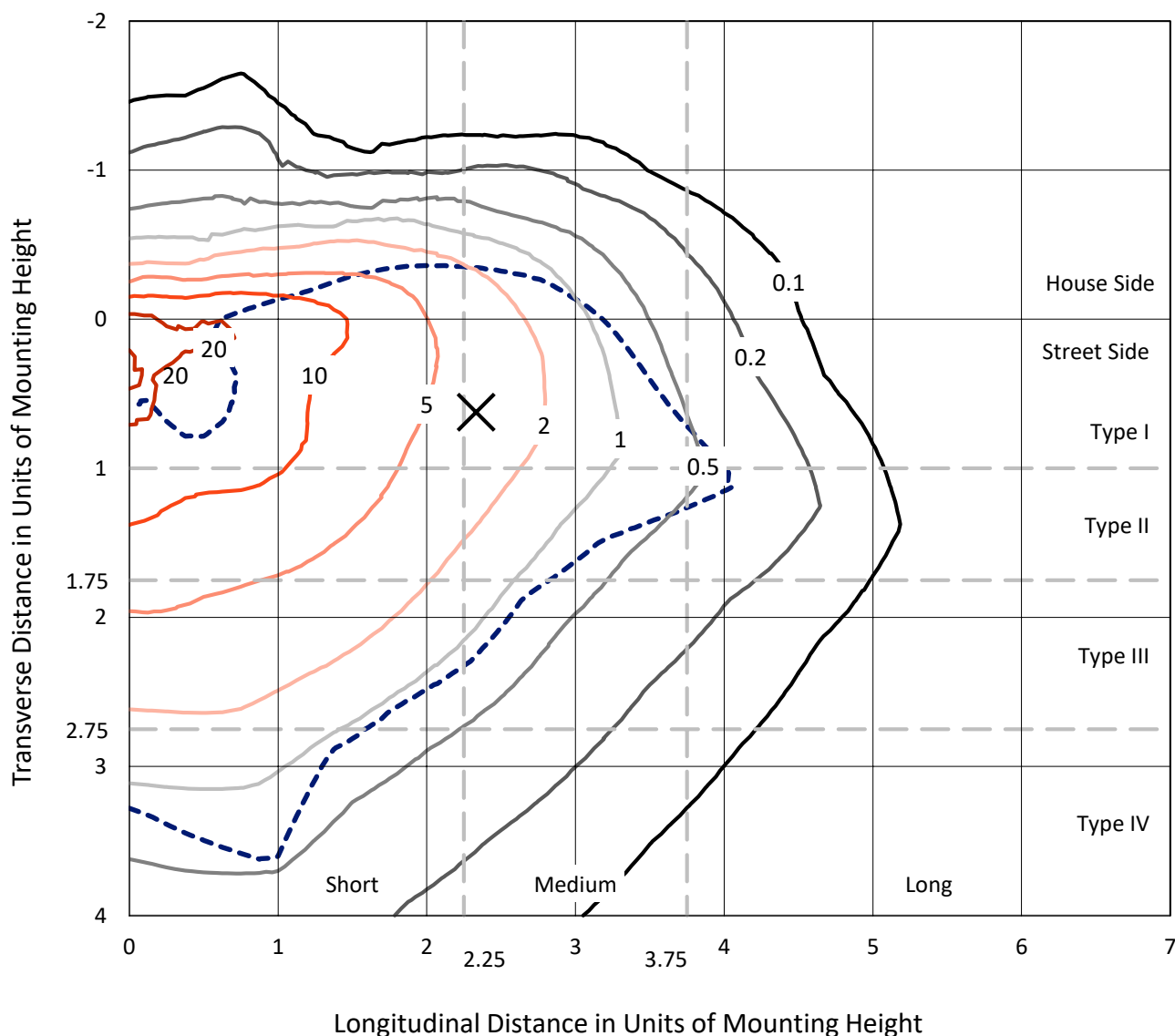
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

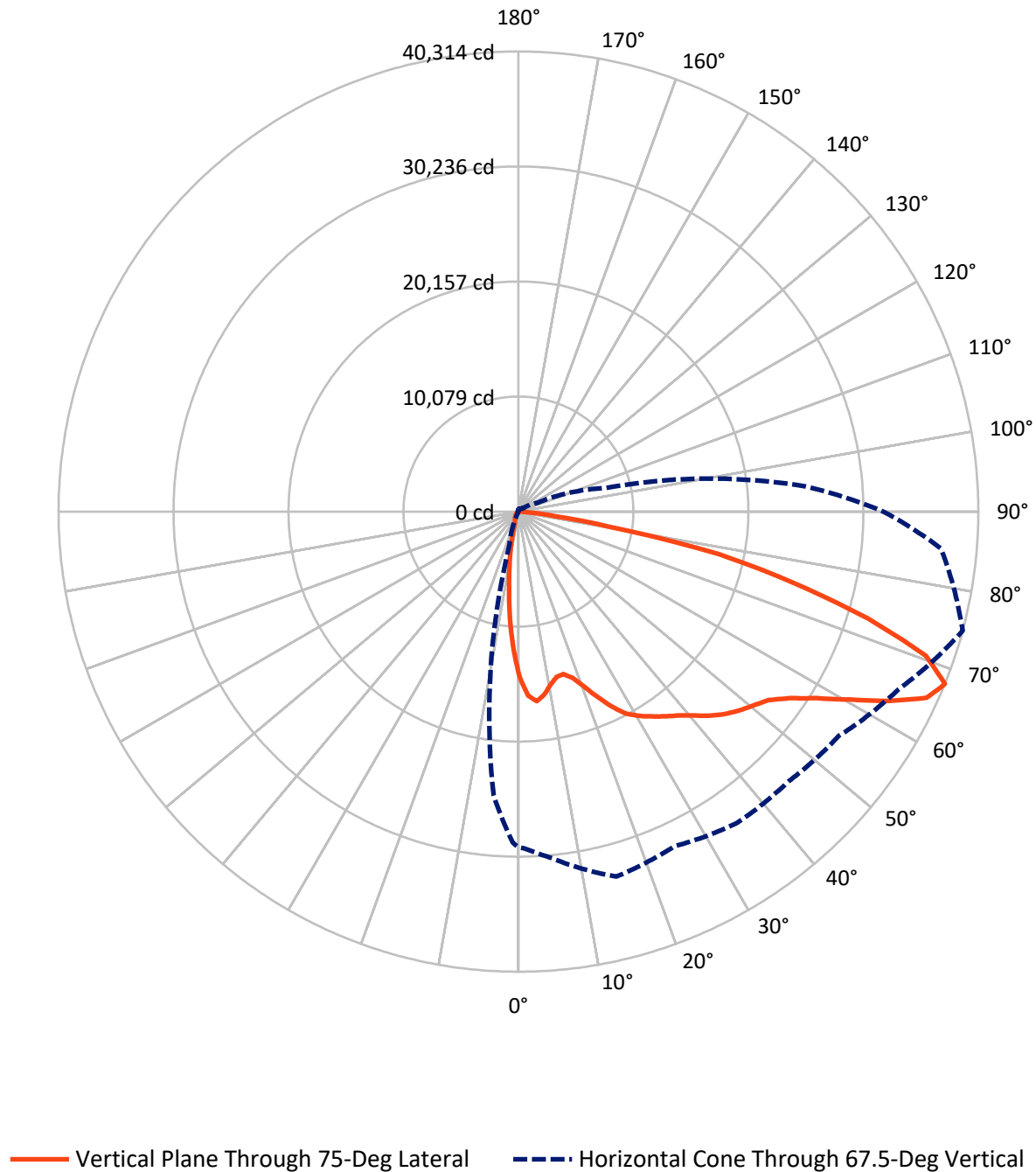
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 30.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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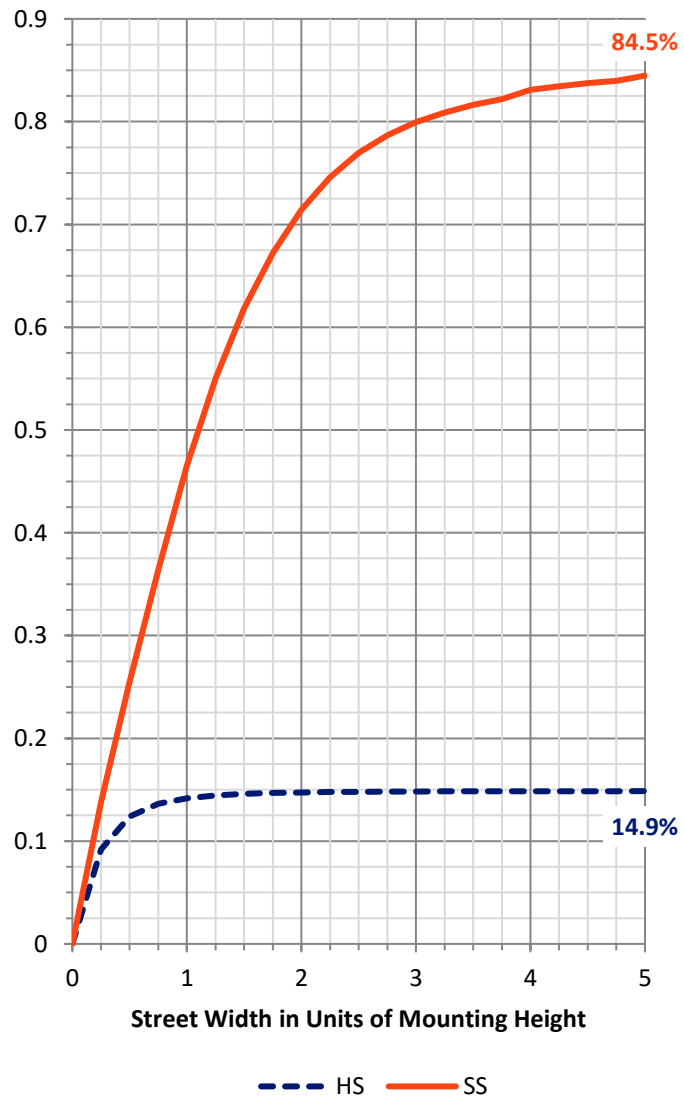
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6513.2	0.0	6513.2
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	36890.8	0.0	36890.8
	% Fixture	85.0	0.0	85.0
Total	Lumens	43404.0	0.0	43404.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1104.5	2.5
10°-20°	2174.9	5.0
20°-30°	3076.8	7.1
30°-40°	4523.8	10.4
40°-50°	6502.2	15.0
50°-60°	9153.3	21.1
60°-70°	10690.3	24.6
70°-80°	5453.8	12.6
80°-90°	724.5	1.7
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°	43404.0	100.0
0°-180°	43404.0	100.0

Coefficient of Utilization



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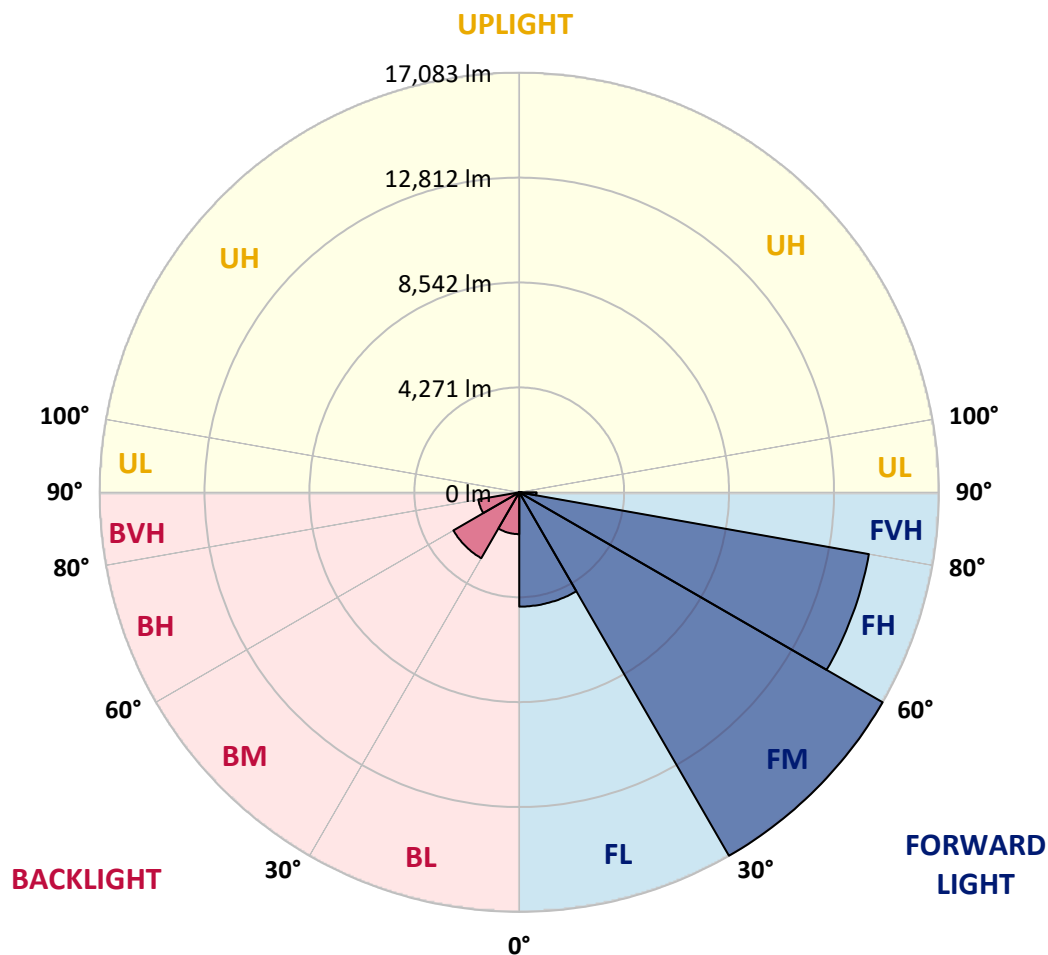
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4652.9	10.7			
FM	(30°-60°)	17083.0	39.4			
FH	(60°-80°)	14452.3	33.3			G5
FVH	(80°-90°)	702.5	1.6			G4/750
BL	(0°-30°)	1703.3	3.9	B3/2500		
BM	(30°-60°)	3096.2	7.1	B3/5000		
BH	(60°-80°)	1691.8	3.9	B3/2500		G3/2500
BVH	(80°-90°)	22.0	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	14561.3	14561.3	14561.3	14561.3	14561.3	14561.3	14561.3	14561.3	14561.3	14561.3	14561.3
2.5°	15784.7	15809.4	15936.8	16232.9	16555.7	16580.4	16798.3	16574.2	16498.1	16136.3	15762.1
5°	15903.9	15998.5	16436.5	17306.2	18060.8	18303.4	18476.1	18036.1	17573.5	16689.4	15745.6
7.5°	14943.7	15102.1	15790.8	17423.4	18772.2	19368.5	19481.5	18792.8	17659.8	16204.1	14785.4
10°	13714.2	13895.1	14725.8	16732.5	18585.1	19607.0	19763.2	18860.6	17232.2	15418.7	13747.1
12.5°	12719.0	12930.8	13780.0	15955.3	17941.5	19072.4	19380.8	18632.4	16862.1	14861.5	13037.7
15°	12260.5	12503.1	13395.5	15453.6	17228.1	18118.4	18373.3	18050.5	16656.5	14773.1	12873.2
17.5°	12523.7	12786.9	13708.0	15496.8	16557.8	16938.2	17143.8	17275.4	16656.5	15305.6	13354.4
20°	13603.2	13886.9	14861.5	15934.8	16002.6	15860.8	16080.8	16543.4	16849.7	16317.2	14509.9
22.5°	15095.9	15429.0	16529.0	16685.3	15731.2	15194.6	15223.4	15949.2	17201.3	17600.2	16113.7
25°	16915.5	17322.6	18441.2	17803.8	15844.3	14797.8	14787.5	15459.8	17544.7	18885.3	17900.4
27.5°	18722.8	19171.1	20153.9	19169.0	16311.0	14725.8	14705.2	15311.8	17879.8	20028.5	19851.6
30°	20238.2	20674.1	21521.2	20158.0	16814.8	14894.4	14795.7	15470.1	18079.3	20770.7	21274.5
32.5°	21471.9	21821.4	22506.1	20838.6	17353.5	15221.3	15007.5	15893.7	18418.5	21397.8	22582.1
35°	22828.9	23196.9	23470.4	21486.2	17958.0	15692.2	15385.8	16566.0	18940.8	22035.2	24015.2
37.5°	24377.1	24743.1	24710.2	22078.4	18724.9	16471.4	16276.1	17631.1	19753.0	22666.4	25614.9
40°	25892.5	26266.7	25999.4	22726.1	19625.5	17756.5	17612.6	19230.7	20840.6	23474.5	27490.1
42.5°	27311.2	27716.2	27144.6	23338.8	20698.8	19376.7	19623.4	21290.9	22201.8	24469.6	29106.2
45°	28454.4	28867.6	28104.8	23935.1	21829.6	21342.3	22084.6	23573.2	23838.4	25310.6	30197.9
47.5°	29285.0	29675.7	28771.0	24531.3	23277.1	23745.9	25039.2	25966.5	25316.8	26040.5	30973.1
50°	29815.5	30119.8	28966.3	25277.7	25176.9	26550.4	28117.2	28569.5	26708.7	26698.5	31914.8
52.5°	30152.7	30290.5	29110.3	26057.0	27159.0	29603.7	31131.4	31273.3	28141.8	27422.2	33183.4
55°	31314.4	31425.4	30130.1	27000.7	28797.7	32278.7	33857.8	33726.2	29764.1	28838.9	34680.2
57.5°	33296.5	33413.7	32237.6	28357.7	30123.9	33931.8	35833.7	36070.2	31666.0	30829.2	36284.0
60°	34291.6	34509.6	34090.1	30076.6	31409.0	34988.7	37180.5	37935.0	34042.8	33452.7	37838.4
62.5°	33389.0	33705.6	34314.3	31982.6	32685.8	35570.5	37599.9	38603.3	36477.3	36510.2	38796.5
65°	31587.9	31840.8	32872.9	33027.1	33426.0	35498.6	36563.6	37669.8	37967.9	39318.8	38745.1
67.5°	29412.5	29507.1	30383.0	33109.4	32352.7	33335.5	33450.7	34269.0	36789.8	40314.0	37188.7
70°	26281.1	26332.5	27097.3	30356.3	27802.6	28018.5	27847.8	28014.4	31629.0	37889.8	33259.5
72.5°	21151.1	21280.6	22368.3	25209.8	20254.6	19631.6	20972.2	20898.2	24358.6	32011.4	24702.0
75°	15572.9	15797.0	17439.8	20306.0	14215.9	12858.8	13837.6	14098.7	17316.5	24761.6	15447.5
77.5°	10903.5	11070.0	12661.5	14927.3	10288.7	9194.9	8841.2	9151.7	11429.9	17912.7	7782.3
80°	6281.4	6343.1	7358.8	8619.2	6933.2	7932.4	7186.1	7399.9	6848.9	7969.4	3347.3
82.5°	4110.1	4120.4	4517.3	5130.0	4317.8	5016.9	3713.3	4747.5	4212.9	3201.3	1089.7
85°	2220.6	2232.9	2619.5	3641.4	2444.7	1381.7	812.2	1667.5	2605.1	734.0	298.1
87.5°	244.7	224.1	789.5	1324.1	678.5	125.4	43.2	187.1	417.4	47.3	0.0
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	14561.3	14561.3	14561.3	14561.3	14561.3	14561.3	14561.3	14561.3	14561.3	14561.3	14561.3
2.5°	15570.8	15400.2	14974.6	14524.3	14162.4	13823.2	13481.8	13064.5	12741.7	12675.9	12568.9
5°	15237.8	14697.0	13804.7	12908.2	12186.5	11275.7	10697.9	10247.6	9807.6	9780.9	9692.5
7.5°	14074.0	13362.6	12106.3	10866.5	9850.8	8983.1	8107.2	7521.2	7060.6	6898.2	6801.6
10°	12955.5	12155.7	10586.9	9172.3	8265.5	7498.6	6881.8	6269.0	5713.9	5331.5	5158.8
12.5°	12174.2	11290.0	9560.9	8341.6	7691.9	6964.0	6211.5	5446.6	4807.2	4346.6	4064.9
15°	11871.9	10928.2	9217.5	8012.6	7210.7	6289.6	5327.4	4453.5	3744.2	3326.8	3073.9
17.5°	12231.7	11133.8	9190.8	7611.7	6491.1	5345.9	4282.9	3250.7	2582.5	2265.8	2103.4
20°	13144.6	11787.6	9180.5	7120.3	5635.8	4227.3	2901.2	2138.3	1733.3	1556.5	1480.4
22.5°	14435.9	12622.4	9262.7	6635.0	4745.5	3020.4	2002.6	1570.9	1363.2	1268.6	1225.4
25°	16097.2	13794.4	9495.1	6195.0	3908.6	2253.5	1560.6	1315.9	1169.9	1095.9	1065.1
27.5°	17867.5	15143.2	9856.9	5812.6	3228.1	1797.0	1336.5	1126.7	1021.9	970.5	941.7
30°	19327.3	16705.8	10222.9	5387.0	2734.6	1566.7	1223.4	1028.0	906.7	873.8	847.1
32.5°	20604.2	17888.1	10482.0	5002.5	2411.8	1392.0	1106.2	919.1	836.8	773.1	744.3
35°	21926.2	18872.9	10473.8	4733.1	2189.7	1260.4	1007.5	822.4	723.7	649.7	627.1
37.5°	23357.3	19985.3	10294.9	4502.9	2093.1	1155.5	952.0	771.0	672.3	598.3	569.5
40°	25033.0	21153.2	10111.9	4287.0	2066.4	1071.2	912.9	729.9	625.1	553.1	524.3
42.5°	26665.6	22205.9	9951.5	4126.6	1951.2	1069.2	878.0	699.1	588.0	518.1	485.2
45°	27971.2	23186.6	9920.7	4030.0	1829.9	1106.2	859.4	678.5	559.3	489.4	458.5
47.5°	29056.8	24251.7	10118.1	3962.1	1714.8	1009.5	904.7	664.1	532.5	464.7	429.7
50°	30348.0	25559.4	10582.7	3851.1	1593.5	908.8	1036.3	668.2	509.9	440.0	403.0
52.5°	32149.2	27368.7	11265.4	3664.0	1426.9	816.3	1019.8	672.3	485.2	413.3	376.3
55°	34168.3	29628.4	11999.4	3353.5	1194.6	695.0	873.8	643.6	437.9	384.5	349.5
57.5°	36290.2	31678.3	12435.3	2983.4	949.9	600.4	699.1	586.0	386.5	345.4	322.8
60°	36623.3	32457.6	12235.9	2529.0	754.6	522.2	518.1	596.3	345.4	304.3	287.9
62.5°	35794.6	31478.9	11271.5	2124.0	631.2	458.5	425.6	520.2	312.5	271.4	255.0
65°	34201.2	28832.7	9708.9	1914.2	586.0	392.7	353.6	366.0	273.5	236.5	222.1
67.5°	31984.7	25300.3	7971.5	1795.0	579.8	337.2	302.2	277.6	236.5	205.6	193.3
70°	27453.0	21077.1	6359.5	1729.2	563.4	283.7	255.0	226.2	197.4	174.8	164.5
72.5°	20205.3	14935.5	4947.0	1657.2	567.5	226.2	222.1	187.1	158.3	135.7	131.6
75°	11674.5	8532.8	3244.5	1342.6	540.8	174.8	185.0	131.6	111.0	94.6	94.6
77.5°	6221.8	5204.0	1235.7	559.3	197.4	111.0	104.9	78.1	69.9	57.6	55.5
80°	2712.0	2290.5	372.2	156.3	109.0	59.6	39.1	35.0	30.8	24.7	22.6
82.5°	960.2	828.6	121.3	76.1	47.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	217.9	156.3	0.0	18.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	14561.3	14561.3	14561.3	14561.3	14561.3	14561.3	14561.3	14561.3	14561.3	14561.3	14561.3
2.5°	12351.0	12305.8	12038.5	12048.7	12096.0	12163.9	12003.5	12077.5	12277.0	12468.2	12540.2
5°	9550.6	9560.9	9398.4	9499.2	9589.7	9651.3	9392.3	9396.4	9554.7	9770.6	9883.7
7.5°	6729.6	6713.2	6721.4	6962.0	7132.6	7009.2	7105.9	6770.7	6791.3	6945.5	6830.4
10°	5002.5	4776.3	4648.8	4829.8	5016.9	4949.0	4782.5	4673.5	4749.6	4920.2	4907.9
12.5°	3931.3	3606.4	3415.2	3285.6	3439.9	3312.4	3308.3	3213.7	3110.9	3129.4	3402.8
15°	2956.7	2720.2	2494.0	2286.4	2282.3	2239.1	2019.1	1772.4	1751.8	1764.1	1906.0
17.5°	2033.5	1953.3	1860.8	1681.9	1634.6	1453.7	1239.8	1141.1	1091.8	1114.4	1161.7
20°	1429.0	1398.1	1408.4	1311.8	1243.9	1071.2	945.8	906.7	898.5	921.1	943.7
22.5°	1184.3	1128.8	1122.6	1079.5	1011.6	886.2	818.3	795.7	785.4	806.0	822.4
25°	1036.3	980.8	958.1	931.4	859.4	773.1	732.0	711.4	701.1	713.5	723.7
27.5°	912.9	861.5	840.9	822.4	752.5	690.8	658.0	639.4	631.2	635.3	645.6
30°	820.4	775.1	748.4	725.8	666.2	623.0	594.2	575.7	567.5	567.5	577.8
32.5°	723.7	699.1	674.4	645.6	590.1	561.3	532.5	512.0	503.7	505.8	514.0
35°	602.4	594.2	600.4	573.7	526.4	501.7	472.9	450.3	444.1	446.2	454.4
37.5°	534.6	497.6	520.2	505.8	479.1	446.2	409.2	388.6	378.3	384.5	388.6
40°	491.4	446.2	429.7	444.1	440.0	386.5	353.6	333.1	324.9	326.9	331.0
42.5°	454.4	400.9	363.9	361.9	386.5	337.2	302.2	283.7	273.5	273.5	277.6
45°	419.4	361.9	316.6	281.7	324.9	285.8	252.9	236.5	224.1	224.1	226.2
47.5°	392.7	329.0	275.5	230.3	244.7	234.4	207.7	191.2	178.9	178.9	180.9
50°	368.0	296.1	238.5	193.3	183.0	193.3	168.6	150.1	141.9	139.8	143.9
52.5°	341.3	263.2	203.6	164.5	143.9	146.0	131.6	119.3	109.0	109.0	113.1
55°	314.6	236.5	176.8	139.8	119.3	109.0	104.9	96.6	88.4	88.4	92.5
57.5°	287.9	207.7	150.1	115.1	94.6	86.4	86.4	80.2	74.0	74.0	78.1
60°	263.2	178.9	123.4	94.6	74.0	72.0	74.0	67.9	63.7	63.7	67.9
62.5°	234.4	152.2	100.7	78.1	59.6	57.6	63.7	59.6	55.5	55.5	59.6
65°	199.4	129.5	80.2	59.6	45.2	45.2	53.5	49.3	45.2	45.2	49.3
67.5°	168.6	109.0	61.7	43.2	32.9	35.0	45.2	41.1	39.1	39.1	43.2
70°	139.8	84.3	43.2	26.7	18.5	26.7	35.0	35.0	35.0	35.0	39.1
72.5°	104.9	57.6	24.7	10.3	8.2	18.5	28.8	32.9	30.8	30.8	37.0
75°	67.9	32.9	8.2	0.0	0.0	10.3	22.6	26.7	26.7	24.7	30.8
77.5°	39.1	10.3	0.0	0.0	0.0	0.0	14.4	12.3	10.3	8.2	14.4
80°	10.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	14561.3	14561.3	14561.3	14561.3	14561.3	14561.3	14561.3	14561.3	14561.3	14561.3
2.5°	12830.1	13072.7	13414.0	13775.9	14333.1	14775.1	15209.0	15581.1	15725.1	15784.7
5°	10155.1	10510.8	11010.4	11651.9	12657.4	13562.0	14479.1	15402.2	15803.2	15903.9
7.5°	7286.8	7741.2	8376.6	9180.5	10358.6	11530.6	12811.6	14166.5	14787.5	14943.7
10°	5393.2	5948.3	6676.2	7523.3	8648.0	9852.8	11248.9	12797.2	13506.5	13714.2
12.5°	3826.4	4576.9	5551.5	6581.6	7556.2	8631.5	10044.0	11750.6	12494.9	12719.0
15°	2247.3	2973.1	4126.6	5506.2	6754.3	7844.0	9279.2	11214.0	12034.4	12260.5
17.5°	1289.2	1651.0	2522.8	4060.8	5755.0	7264.2	9038.6	11347.6	12314.0	12523.7
20°	984.9	1100.0	1453.7	2615.4	4587.2	6694.7	9038.6	12104.3	13294.7	13603.2
22.5°	861.5	945.8	1089.7	1560.6	3376.1	6084.0	9143.5	13198.1	14754.6	15095.9
25°	764.9	840.9	964.3	1174.0	2302.8	5358.2	9392.3	14540.7	16473.5	16915.5
27.5°	684.7	756.6	867.7	1028.0	1575.0	4482.3	9727.4	16115.7	18369.2	18722.8
30°	612.7	680.6	781.3	894.4	1215.2	3489.2	10013.2	17600.2	19857.8	20238.2
32.5°	544.9	606.5	697.0	781.3	995.2	2580.4	10044.0	18776.3	21093.5	21471.9
35°	481.1	536.6	618.9	684.7	824.5	2037.6	9565.0	19796.1	22329.2	22828.9
37.5°	419.4	472.9	544.9	594.2	725.8	1661.3	8833.0	20933.2	23914.5	24377.1
40°	361.9	409.2	483.2	516.1	686.7	1276.8	8037.3	22125.7	25468.9	25892.5
42.5°	308.4	353.6	425.6	489.4	602.4	954.0	7177.8	23244.2	26867.1	27311.2
45°	257.0	304.3	376.3	518.1	499.6	713.5	6258.8	23986.5	27971.2	28454.4
47.5°	207.7	261.1	359.8	493.5	398.9	524.3	5530.9	24689.6	28808.0	29285.0
50°	166.5	220.0	405.1	440.0	326.9	400.9	5226.6	25318.8	29357.0	29815.5
52.5°	135.7	185.0	382.4	337.2	273.5	331.0	5391.1	26338.6	29864.9	30152.7
55°	113.1	146.0	230.3	234.4	232.3	281.7	5594.6	27802.6	31178.7	31314.4
57.5°	98.7	117.2	160.4	180.9	195.3	250.8	5598.8	29903.9	33212.2	33296.5
60°	84.3	102.8	133.6	146.0	168.6	224.1	5395.2	30637.9	34012.0	34291.6
62.5°	74.0	90.5	111.0	121.3	141.9	201.5	4918.2	29574.9	32914.0	33389.0
65°	65.8	82.2	92.5	102.8	125.4	180.9	4132.8	27448.9	31092.3	31587.9
67.5°	57.6	72.0	82.2	92.5	113.1	160.4	3043.0	24979.6	29001.3	29412.5
70°	51.4	63.7	74.0	82.2	98.7	135.7	1846.4	21196.3	26110.4	26281.1
72.5°	49.3	57.6	67.9	74.0	86.4	119.3	935.5	15577.0	20873.5	21151.1
75°	43.2	51.4	61.7	65.8	76.1	102.8	380.4	10231.2	15126.7	15572.9
77.5°	35.0	47.3	55.5	59.6	65.8	84.3	193.3	6538.4	10615.6	10903.5
80°	12.3	35.0	47.3	49.3	55.5	61.7	127.5	3579.7	6158.0	6281.4
82.5°	0.0	22.6	37.0	35.0	39.1	47.3	82.2	1702.5	4064.9	4110.1
85°	0.0	10.3	28.8	22.6	16.4	32.9	28.8	372.2	2132.2	2220.6
87.5°	0.0	0.0	2.1	10.3	8.2	12.3	4.1	2.1	193.3	244.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)