

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: P324144

Luminaire Tested: **GAN-SA0D-730-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324144
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-SA0D-730-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K, 1200mA 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: 51850 lumens
Efficiency: N/A
Efficacy: 81.0 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

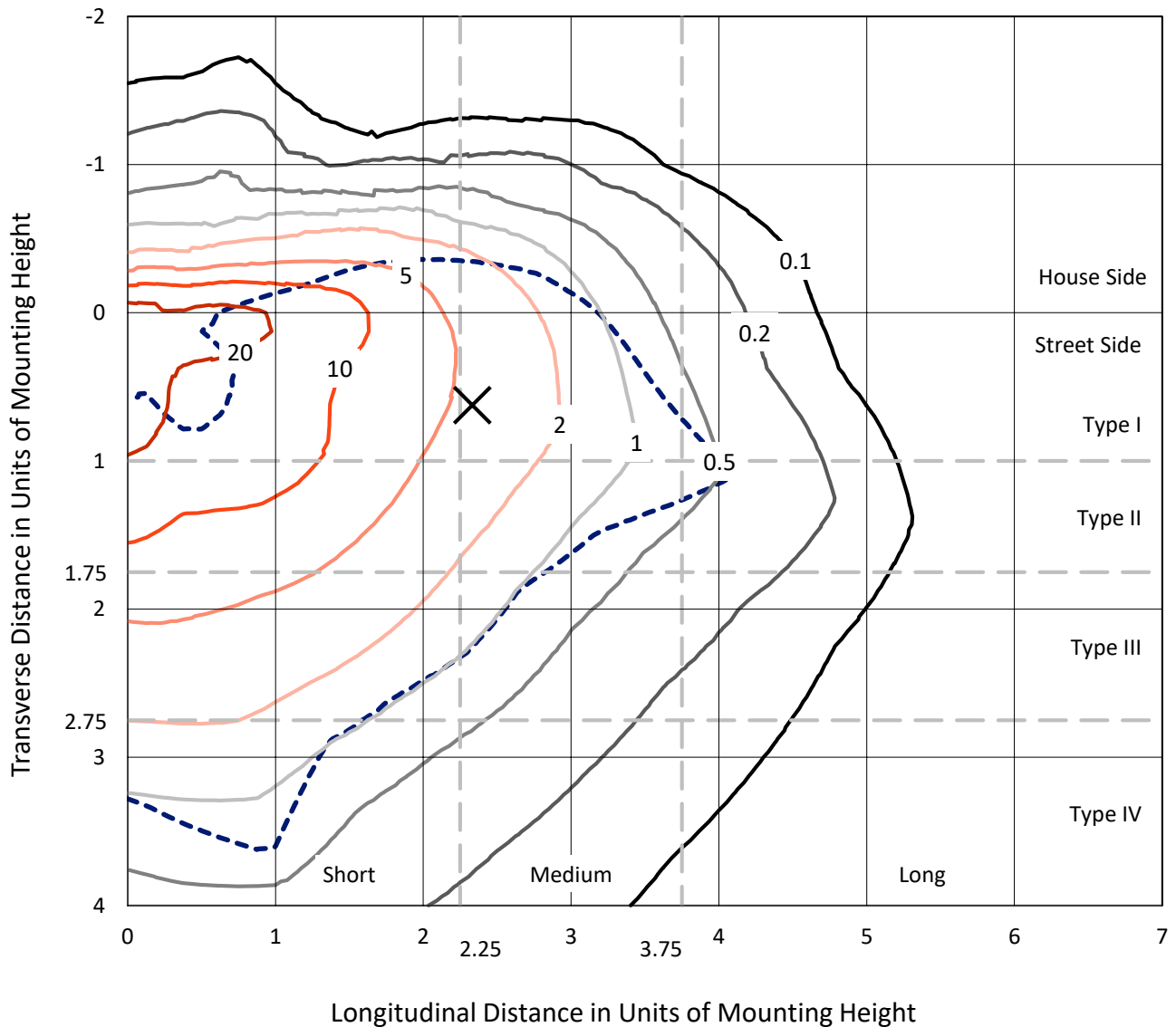
Input Watts (W): 640
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

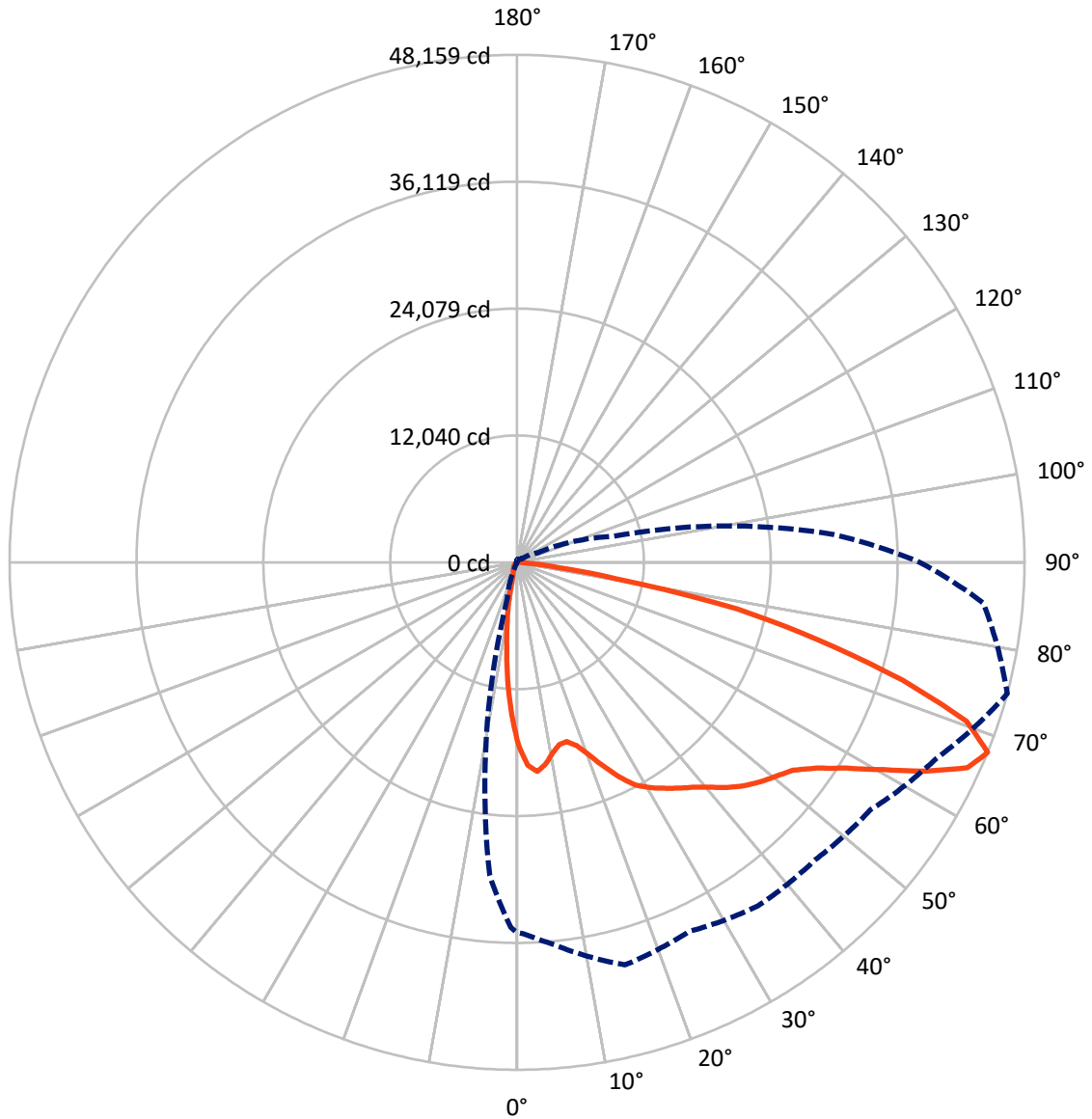
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 36.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7780.6	0.0	7780.6
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	44069.4	0.0	44069.4
	% Fixture	85.0	0.0	85.0
Total	Lumens	51850.0	0.0	51850.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1319.5	2.5
10°-20°	2598.1	5.0
20°-30°	3675.5	7.1
30°-40°	5404.0	10.4
40°-50°	7767.4	15.0
50°-60°	10934.5	21.1
60°-70°	12770.5	24.6
70°-80°	6515.1	12.6
80°-90°	865.5	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°	51850.0	100.0
0°-180°	51850.0	100.0

Coefficient of Utilization



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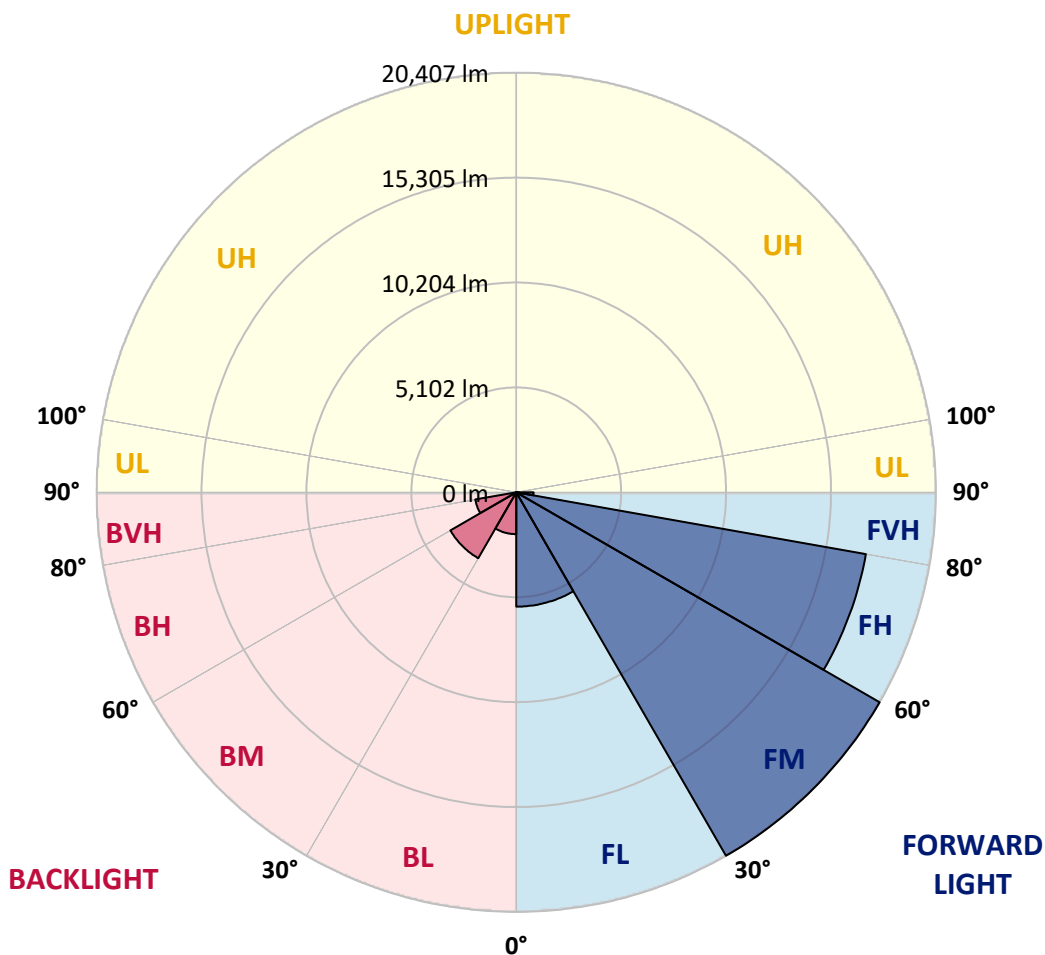
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5558.3	10.7			
FM (30°-60°)	20407.2	39.4			
FH (60°-80°)	17264.6	33.3			G5
FVH (80°-90°)	839.2	1.6			G5
BL (0°-30°)	2034.7	3.9	B3/2500		
BM (30°-60°)	3698.7	7.1	B3/5000		
BH (60°-80°)	2021.0	3.9	B3/2500		G3/2500
BVH (80°-90°)	26.2	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°	17394.8	17394.8	17394.8	17394.8	17394.8	17394.8	17394.8	17394.8	17394.8	17394.8	17394.8
2.5°	18856.2	18885.7	19038.0	19391.7	19777.3	19806.8	20067.1	19799.4	19708.5	19276.2	18829.2
5°	18998.7	19111.7	19634.8	20673.8	21575.2	21865.1	22071.4	21545.8	20993.1	19937.0	18809.6
7.5°	17851.6	18040.8	18863.6	20813.8	22425.1	23137.4	23272.5	22449.6	21096.3	19357.3	17662.5
10°	16382.8	16599.0	17591.3	19988.5	22201.6	23422.3	23609.0	22530.7	20585.4	18419.0	16422.1
12.5°	15194.0	15447.0	16461.4	19060.1	21432.8	22783.7	23152.1	22258.1	20143.3	17753.4	15574.7
15°	14646.3	14936.1	16002.1	18460.8	20580.5	21644.0	21948.6	21563.0	19897.7	17647.8	15378.3
17.5°	14960.7	15275.1	16375.5	18512.4	19779.8	20234.2	20479.8	20637.0	19897.7	18283.9	15953.0
20°	16250.2	16589.2	17753.4	19035.5	19116.6	18947.1	19209.9	19762.6	20128.5	19492.4	17333.4
22.5°	18033.4	18431.3	19745.4	19932.0	18792.4	18151.3	18185.7	19052.7	20548.5	21025.0	19249.2
25°	20207.1	20693.5	22029.6	21268.2	18927.5	17677.3	17665.0	18468.1	20958.7	22560.2	21383.7
27.5°	22366.1	22901.6	24075.6	22899.1	19485.0	17591.3	17566.7	18291.3	21359.1	23925.8	23714.6
30°	24176.3	24697.1	25709.0	24080.6	20086.8	17792.7	17674.8	18480.4	21597.3	24812.5	25414.3
32.5°	25650.1	26067.6	26885.5	24893.6	20730.3	18183.2	17927.8	18986.4	22002.6	25561.6	26976.4
35°	27271.2	27710.8	28037.5	25667.3	21452.4	18745.7	18379.7	19789.6	22626.5	26323.1	28688.4
37.5°	29120.7	29557.9	29518.6	26374.6	22368.6	19676.6	19443.3	21061.9	23596.7	27077.1	30599.3
40°	30930.9	31377.9	31058.6	27148.3	23444.4	21211.7	21039.8	22972.8	24896.0	28042.4	32839.4
42.5°	32625.7	33109.5	32426.7	27880.3	24726.5	23147.2	23441.9	25433.9	26522.0	29231.2	34769.9
45°	33991.3	34485.0	33573.8	28592.6	26077.4	25495.3	26382.0	28160.3	28477.1	30235.8	36074.2
47.5°	34983.6	35450.3	34369.6	29304.9	27806.6	28366.6	29911.6	31019.3	30243.2	31107.7	37000.2
50°	35617.3	35980.8	34602.9	30196.5	30076.1	31716.9	33588.5	34128.9	31906.0	31893.7	38125.1
52.5°	36020.1	36184.7	34774.8	31127.4	32443.9	35364.3	37189.3	37358.8	33618.0	32758.3	39640.6
55°	37407.9	37540.5	35993.1	32254.8	34401.5	38559.8	40446.2	40289.0	35555.9	34450.6	41428.7
57.5°	39775.7	39915.7	38510.7	33875.9	35985.7	40534.6	42806.6	43089.1	37827.9	36828.2	43344.5
60°	40964.5	41224.8	40723.7	35929.3	37520.9	41797.1	44415.4	45316.8	40667.3	39962.3	45201.4
62.5°	39886.2	40264.4	40991.5	38206.1	39046.2	42492.2	44916.5	46115.1	43575.4	43614.7	46346.0
65°	37734.6	38036.7	39269.7	39453.9	39930.4	42406.2	43678.6	45000.0	45356.1	46969.9	46284.6
67.5°	35135.9	35248.9	36295.2	39552.1	38648.3	39822.3	39959.9	40937.4	43948.7	48158.7	44425.2
70°	31395.1	31456.5	32370.2	36263.3	33212.7	33470.6	33266.7	33465.7	37783.7	45262.8	39731.4
72.5°	25266.9	25421.6	26721.0	30115.4	24196.0	23451.8	25053.2	24964.8	29098.6	38240.5	29508.8
75°	18603.2	18871.0	20833.5	24257.4	16982.1	15361.1	16530.2	16842.1	20686.1	29580.0	18453.4
77.5°	13025.2	13224.2	15125.3	17832.0	12290.8	10984.1	10561.6	10932.5	13654.0	21398.4	9296.7
80°	7503.7	7577.4	8790.7	10296.4	8282.3	9476.0	8584.4	8839.9	8181.6	9520.2	3998.7
82.5°	4909.9	4922.2	5396.3	6128.2	5158.0	5993.1	4435.9	5671.4	5032.7	3824.3	1301.8
85°	2652.7	2667.4	3129.2	4349.9	2920.4	1650.6	970.2	1992.0	3112.0	876.9	356.1
87.5°	292.3	267.7	943.2	1581.8	810.5	149.8	51.6	223.5	498.6	56.5	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°	17394.8	17394.8	17394.8	17394.8	17394.8	17394.8	17394.8	17394.8	17394.8	17394.8	17394.8
2.5°	18600.8	18396.9	17888.5	17350.6	16918.3	16513.0	16105.3	15606.7	15221.1	15142.5	15014.7
5°	18202.9	17556.9	16490.9	15420.0	14557.9	13469.8	12779.6	12241.7	11716.1	11684.1	11578.5
7.5°	16812.7	15962.8	14462.1	12981.0	11767.6	10731.1	9684.8	8984.8	8434.6	8240.5	8125.1
10°	15476.5	14521.0	12647.0	10957.1	9873.9	8957.8	8220.9	7488.9	6825.8	6368.9	6162.6
12.5°	14543.1	13487.0	11421.3	9964.8	9188.6	8319.1	7420.2	6506.5	5742.6	5192.4	4855.9
15°	14182.1	13054.7	11011.1	9571.8	8613.9	7513.5	6364.0	5320.1	4472.7	3974.1	3672.0
17.5°	14611.9	13300.3	10979.2	9092.8	7754.2	6386.1	5116.3	3883.2	3085.0	2706.7	2512.7
20°	15702.5	14081.4	10966.9	8505.8	6732.4	5049.9	3465.7	2554.4	2070.6	1859.3	1768.5
22.5°	17245.0	15078.6	11065.2	7926.1	5668.9	3608.2	2392.3	1876.5	1628.5	1515.5	1463.9
25°	19229.6	16478.6	11342.7	7400.5	4669.2	2692.0	1864.3	1572.0	1397.6	1309.2	1272.3
27.5°	21344.4	18089.9	11775.0	6943.7	3856.2	2146.7	1596.5	1346.0	1220.7	1159.3	1124.9
30°	23088.3	19956.6	12212.2	6435.2	3266.7	1871.6	1461.4	1228.1	1083.2	1043.9	1012.0
32.5°	24613.6	21368.9	12521.7	5975.9	2881.1	1662.8	1321.4	1097.9	999.7	923.5	889.1
35°	26192.9	22545.4	12511.9	5654.2	2615.8	1505.6	1203.5	982.5	864.6	776.2	749.1
37.5°	27902.4	23874.2	12298.2	5379.1	2500.4	1380.4	1137.2	921.1	803.2	714.8	680.4
40°	29904.2	25269.4	12079.6	5121.2	2468.5	1279.7	1090.6	871.9	746.7	660.7	626.3
42.5°	31854.4	26526.9	11888.0	4929.6	2330.9	1277.2	1048.8	835.1	702.5	619.0	579.7
45°	33414.1	27698.5	11851.2	4814.1	2186.0	1321.4	1026.7	810.5	668.1	584.6	547.7
47.5°	34711.0	28970.8	12086.9	4733.1	2048.5	1206.0	1080.7	793.4	636.2	555.1	513.3
50°	36253.5	30533.0	12642.0	4600.5	1903.6	1085.6	1237.9	798.3	609.1	525.6	481.4
52.5°	38405.1	32694.4	13457.5	4376.9	1704.6	975.1	1218.3	803.2	579.7	493.7	449.5
55°	40817.1	35393.8	14334.4	4006.1	1427.1	830.2	1043.9	768.8	523.2	459.3	417.6
57.5°	43351.9	37842.6	14855.1	3563.9	1134.8	717.2	835.1	700.0	461.8	412.6	385.6
60°	43749.8	38773.5	14616.8	3021.1	901.4	623.9	619.0	712.3	412.6	363.5	343.9
62.5°	42759.9	37604.4	13464.9	2537.3	754.1	547.7	508.4	621.4	373.3	324.2	304.6
65°	40856.4	34443.3	11598.2	2286.7	700.0	469.1	422.5	437.2	326.7	282.5	265.3
67.5°	38208.6	30223.5	9522.7	2144.3	692.6	402.8	361.1	331.6	282.5	245.6	230.9
70°	32795.1	25178.5	7597.0	2065.7	673.0	339.0	304.6	270.2	235.8	208.8	196.5
72.5°	24137.0	17841.8	5909.6	1979.7	677.9	270.2	265.3	223.5	189.1	162.1	157.2
75°	13946.3	10193.2	3875.9	1603.9	646.0	208.8	221.1	157.2	132.6	113.0	113.0
77.5°	7432.5	6216.6	1476.2	668.1	235.8	132.6	125.3	93.3	83.5	68.8	66.3
80°	3239.7	2736.2	444.6	186.7	130.2	71.2	46.7	41.8	36.8	29.5	27.0
82.5°	1147.0	989.8	144.9	90.9	56.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	260.4	186.7	0.0	22.1	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°	17394.8	17394.8	17394.8	17394.8	17394.8	17394.8	17394.8	17394.8	17394.8	17394.8	17394.8
2.5°	14754.4	14700.3	14381.0	14393.3	14449.8	14530.9	14339.3	14427.7	14666.0	14894.4	14980.3
5°	11409.0	11421.3	11227.3	11347.6	11455.7	11529.4	11219.9	11224.8	11413.9	11671.8	11806.9
7.5°	8039.1	8019.5	8029.3	8316.7	8520.5	8373.2	8488.6	8088.3	8112.8	8297.0	8159.5
10°	5975.9	5705.7	5553.5	5769.6	5993.1	5912.1	5713.1	5582.9	5673.8	5877.7	5862.9
12.5°	4696.2	4308.2	4079.7	3925.0	4109.2	3956.9	3952.0	3839.0	3716.2	3738.3	4065.0
15°	3532.0	3249.5	2979.4	2731.3	2726.4	2674.8	2412.0	2117.2	2092.7	2107.4	2276.9
17.5°	2429.2	2333.4	2222.9	2009.2	1952.7	1736.5	1481.1	1363.2	1304.2	1331.3	1387.8
20°	1707.1	1670.2	1682.5	1567.1	1486.0	1279.7	1129.9	1083.2	1073.4	1100.4	1127.4
22.5°	1414.8	1348.5	1341.1	1289.5	1208.4	1058.6	977.6	950.5	938.3	962.8	982.5
25°	1237.9	1171.6	1144.6	1112.7	1026.7	923.5	874.4	849.8	837.6	852.3	864.6
27.5°	1090.6	1029.1	1004.6	982.5	899.0	825.3	786.0	763.9	754.1	759.0	771.2
30°	980.0	926.0	894.1	867.0	795.8	744.2	709.8	687.7	677.9	677.9	690.2
32.5°	864.6	835.1	805.6	771.2	704.9	670.5	636.2	611.6	601.8	604.2	614.0
35°	719.7	709.8	717.2	685.3	628.8	599.3	564.9	537.9	530.5	533.0	542.8
37.5°	638.6	594.4	621.4	604.2	572.3	533.0	488.8	464.2	451.9	459.3	464.2
40°	587.0	533.0	513.3	530.5	525.6	461.8	422.5	397.9	388.1	390.5	395.4
42.5°	542.8	479.0	434.7	432.3	461.8	402.8	361.1	339.0	326.7	326.7	331.6
45°	501.1	432.3	378.3	336.5	388.1	341.4	302.1	282.5	267.7	267.7	270.2
47.5°	469.1	393.0	329.1	275.1	292.3	280.0	248.1	228.4	213.7	213.7	216.1
50°	439.7	353.7	284.9	230.9	218.6	230.9	201.4	179.3	169.5	167.0	171.9
52.5°	407.7	314.4	243.2	196.5	171.9	174.4	157.2	142.5	130.2	130.2	135.1
55°	375.8	282.5	211.2	167.0	142.5	130.2	125.3	115.4	105.6	105.6	110.5
57.5°	343.9	248.1	179.3	137.5	113.0	103.2	103.2	95.8	88.4	88.4	93.3
60°	314.4	213.7	147.4	113.0	88.4	86.0	88.4	81.1	76.1	76.1	81.1
62.5°	280.0	181.8	120.4	93.3	71.2	68.8	76.1	71.2	66.3	66.3	71.2
65°	238.3	154.7	95.8	71.2	54.0	54.0	63.9	58.9	54.0	54.0	58.9
67.5°	201.4	130.2	73.7	51.6	39.3	41.8	54.0	49.1	46.7	46.7	51.6
70°	167.0	100.7	51.6	31.9	22.1	31.9	41.8	41.8	41.8	41.8	46.7
72.5°	125.3	68.8	29.5	12.3	9.8	22.1	34.4	39.3	36.8	36.8	44.2
75°	81.1	39.3	9.8	0.0	0.0	12.3	27.0	31.9	31.9	29.5	36.8
77.5°	46.7	12.3	0.0	0.0	0.0	0.0	17.2	14.7	12.3	9.8	17.2
80°	12.3	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°	17394.8	17394.8	17394.8	17394.8	17394.8	17394.8	17394.8	17394.8	17394.8	17394.8
2.5°	15326.7	15616.5	16024.2	16456.5	17122.2	17650.2	18168.5	18613.1	18785.0	18856.2
5°	12131.2	12556.1	13152.9	13919.3	15120.3	16201.1	17296.5	18399.4	18878.3	18998.7
7.5°	8704.8	9247.6	10006.5	10966.9	12374.3	13774.4	15304.6	16923.2	17665.0	17851.6
10°	6442.6	7105.8	7975.3	8987.2	10330.8	11770.1	13437.9	15287.4	16134.8	16382.8
12.5°	4571.0	5467.5	6631.7	7862.3	9026.5	10311.1	11998.5	14037.2	14926.3	15194.0
15°	2684.6	3551.7	4929.6	6577.7	8068.6	9370.4	11084.8	13396.1	14376.1	14646.3
17.5°	1540.0	1972.3	3013.8	4851.0	6874.9	8677.7	10797.4	13555.8	14710.2	14960.7
20°	1176.5	1314.1	1736.5	3124.3	5479.8	7997.4	10797.4	14459.6	15881.8	16250.2
22.5°	1029.1	1129.9	1301.8	1864.3	4033.1	7267.9	10922.7	15766.3	17625.7	18033.4
25°	913.7	1004.6	1152.0	1402.5	2750.9	6400.8	11219.9	17370.2	19679.1	20207.1
27.5°	817.9	903.9	1036.5	1228.1	1881.4	5354.5	11620.3	19251.7	21943.7	22366.1
30°	731.9	813.0	933.4	1068.4	1451.6	4168.2	11961.7	21025.0	23722.0	24176.3
32.5°	650.9	724.6	832.7	933.4	1188.8	3082.5	11998.5	22430.0	25198.1	25650.1
35°	574.8	641.1	739.3	817.9	984.9	2434.1	11426.2	23648.3	26674.3	27271.2
37.5°	501.1	564.9	650.9	709.8	867.0	1984.6	10551.8	25006.5	28568.0	29120.7
40°	432.3	488.8	577.2	616.5	820.4	1525.3	9601.3	26431.1	30424.9	30930.9
42.5°	368.4	422.5	508.4	584.6	719.7	1139.7	8574.6	27767.3	32095.1	32625.7
45°	307.0	363.5	449.5	619.0	596.9	852.3	7476.7	28654.0	33414.1	33991.3
47.5°	248.1	311.9	429.8	589.5	476.5	626.3	6607.2	29494.0	34413.8	34983.6
50°	199.0	262.8	483.9	525.6	390.5	479.0	6243.7	30245.6	35069.6	35617.3
52.5°	162.1	221.1	456.9	402.8	326.7	395.4	6440.1	31463.9	35676.3	36020.1
55°	135.1	174.4	275.1	280.0	277.6	336.5	6683.3	33212.7	37245.8	37407.9
57.5°	117.9	140.0	191.6	216.1	233.3	299.7	6688.2	35722.9	39675.0	39775.7
60°	100.7	122.8	159.7	174.4	201.4	267.7	6445.1	36599.8	40630.4	40964.5
62.5°	88.4	108.1	132.6	144.9	169.5	240.7	5875.2	35329.9	39318.8	39886.2
65°	78.6	98.2	110.5	122.8	149.8	216.1	4937.0	32790.2	37142.6	37734.6
67.5°	68.8	86.0	98.2	110.5	135.1	191.6	3635.2	29840.3	34644.7	35135.9
70°	61.4	76.1	88.4	98.2	117.9	162.1	2205.7	25320.9	31191.2	31395.1
72.5°	58.9	68.8	81.1	88.4	103.2	142.5	1117.6	18608.1	24935.3	25266.9
75°	51.6	61.4	73.7	78.6	90.9	122.8	454.4	12222.0	18070.2	18603.2
77.5°	41.8	56.5	66.3	71.2	78.6	100.7	230.9	7810.7	12681.3	13025.2
80°	14.7	41.8	56.5	58.9	66.3	73.7	152.3	4276.2	7356.3	7503.7
82.5°	0.0	27.0	44.2	41.8	46.7	56.5	98.2	2033.7	4855.9	4909.9
85°	0.0	12.3	34.4	27.0	19.6	39.3	34.4	444.6	2547.1	2652.7
87.5°	0.0	0.0	2.5	12.3	9.8	14.7	4.9	2.5	230.9	292.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)