

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: P324558

Luminaire Tested: **GAN-SA4B-760-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324558
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-28)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4B-760-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17088 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

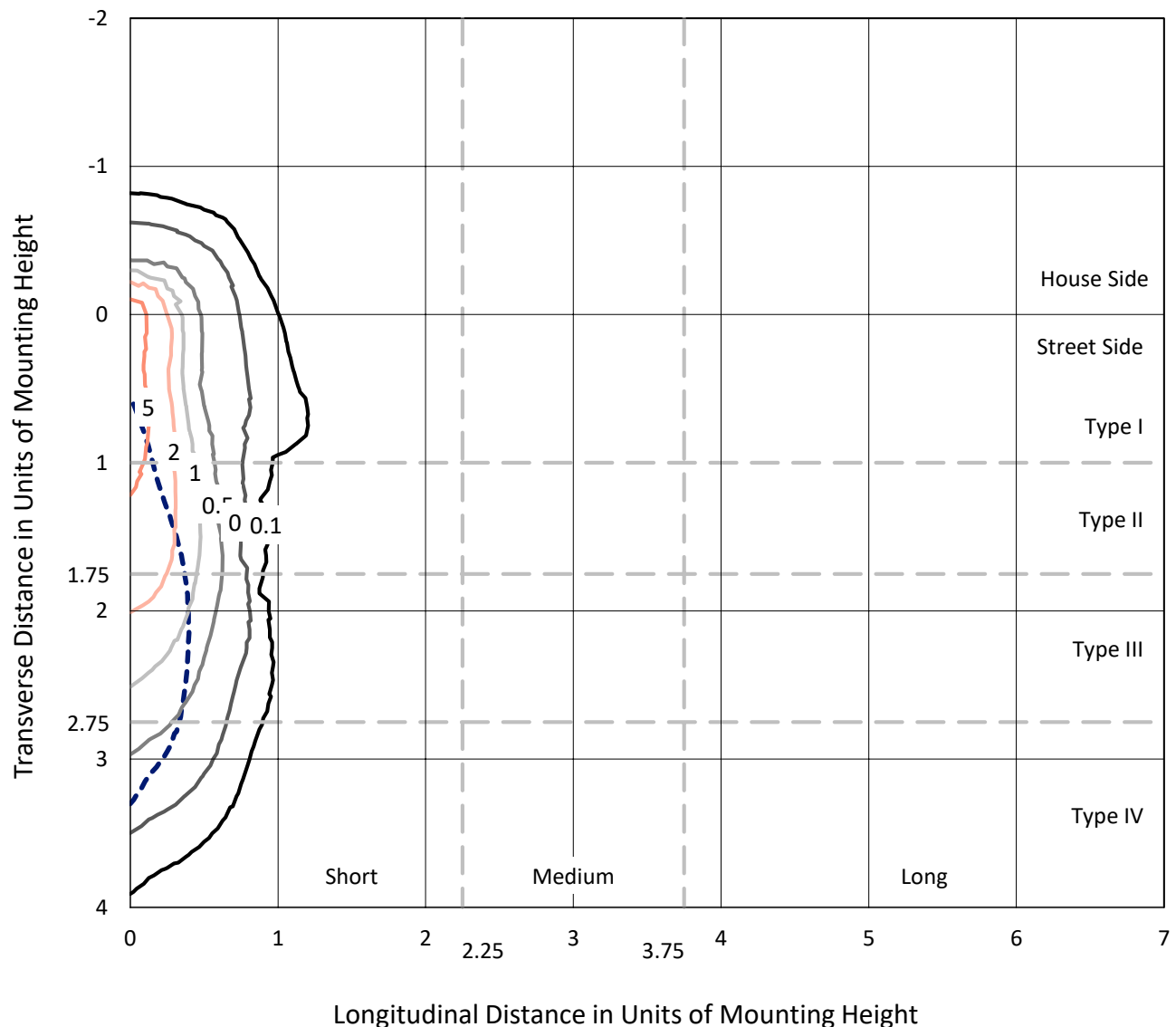
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

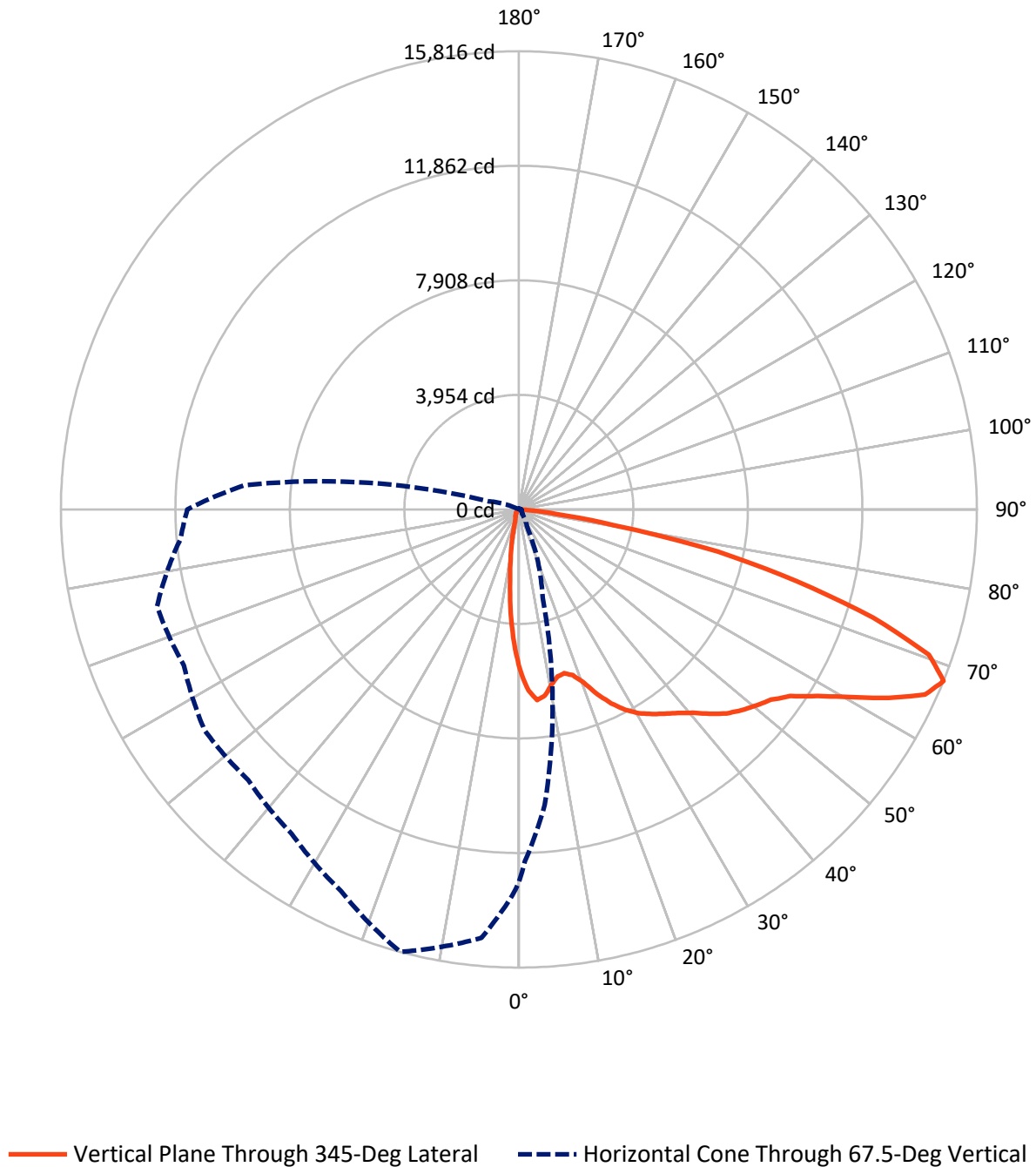
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2068.2	0.0	2068.2
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	15019.8	0.0	15019.8
	% Fixture	87.9	0.0	87.9
Total	Lumens	17088.0	0.0	17088.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	427.2	2.5
10°-20°	850.4	5.0
20°-30°	1207.5	7.1
30°-40°	1783.6	10.4
40°-50°	2572.3	15.1
50°-60°	3611.0	21.1
60°-70°	4209.3	24.6
70°-80°	2151.9	12.6
80°-90°	274.8	1.6
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°	17088.0	100.0
0°-180°	17088.0	100.0

Coefficient of Utilization



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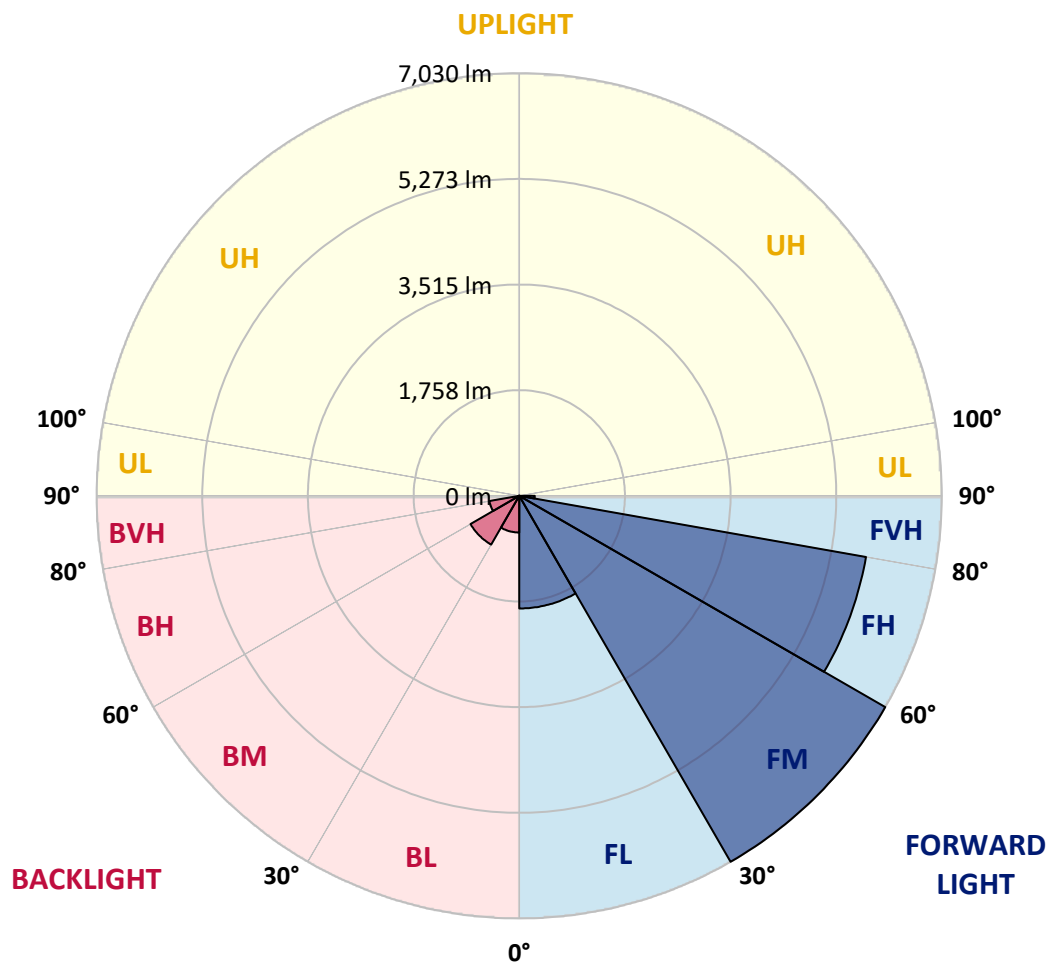
CATALOG NUMBER: GAN-SA4B-760-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1874.2	11.0			
FM	(30°-60°)	7030.3	41.1			
FH	(60°-80°)	5857.2	34.3			G3/7500
FVH	(80°-90°)	258.1	1.5			G3/500
BL	(0°-30°)	610.9	3.6	B2/1000		
BM	(30°-60°)	936.6	5.5	B1/1000		
BH	(60°-80°)	504.1	2.9	B2/1000		G2/1000
BVH	(80°-90°)	16.7	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5566.4	5566.4	5566.4	5566.4	5566.4	5566.4	5566.4	5566.4	5566.4	5566.4	5566.4
2.5°	6095.0	6048.1	5996.2	5827.1	5670.0	5490.3	5343.8	5241.8	5113.9	4947.9	4905.8
5°	6051.3	6001.1	5838.4	5462.0	5132.5	4811.9	4502.7	4321.3	4096.3	3868.0	3811.3
7.5°	5611.7	5559.1	5324.3	4808.7	4365.0	3902.0	3500.4	3251.9	2997.7	2788.9	2678.0
10°	5154.3	5096.9	4832.9	4207.2	3660.7	3242.2	2947.5	2710.3	2469.9	2246.5	2068.4
12.5°	4839.4	4764.1	4477.6	3768.4	3292.4	3008.2	2733.0	2448.9	2123.4	1883.8	1687.9
15°	4707.5	4621.7	4318.9	3599.2	3162.1	2828.5	2469.9	2121.0	1739.7	1465.3	1285.5
17.5°	4809.5	4697.7	4373.1	3587.9	2998.5	2544.4	2091.0	1681.4	1267.7	990.1	862.2
20°	5155.9	5009.4	4597.4	3584.6	2800.2	2206.8	1632.0	1169.0	835.4	671.9	604.7
22.5°	5701.6	5508.1	4919.6	3610.5	2595.4	1852.2	1178.7	794.2	627.4	542.4	502.7
25°	6360.5	6136.3	5383.4	3702.0	2415.7	1507.4	856.5	627.4	529.4	467.1	433.9
27.5°	6987.1	6805.0	5969.5	3834.0	2276.4	1228.9	695.4	531.9	452.5	411.2	384.5
30°	7612.9	7383.8	6571.0	3991.0	2108.8	1040.3	611.2	484.9	405.6	361.9	344.9
32.5°	8067.9	7877.6	7042.2	4104.4	1929.9	917.2	546.4	443.6	378.9	334.3	309.2
35°	8603.0	8387.6	7446.1	4129.5	1815.0	839.5	491.4	399.1	328.7	289.0	262.3
37.5°	9181.0	8913.0	7912.4	4074.4	1725.1	801.4	450.1	378.9	306.8	266.3	238.0
40°	9820.5	9517.7	8360.1	3995.1	1636.9	788.5	418.5	363.5	289.8	248.5	219.4
42.5°	10494.0	10137.0	8747.9	3911.7	1581.0	744.0	415.3	348.1	276.9	232.3	203.2
45°	11059.9	10698.0	9146.2	3884.2	1541.4	695.4	429.1	337.6	268.0	219.4	191.1
47.5°	11510.8	11168.4	9554.2	3945.7	1518.7	650.9	391.0	351.3	263.1	208.1	180.5
50°	12049.2	11661.4	10128.9	4129.5	1485.5	606.3	353.8	402.3	263.1	200.8	171.6
52.5°	12724.3	12340.6	10770.1	4414.4	1419.1	544.8	318.1	403.1	265.5	191.1	160.3
55°	13573.5	13295.0	11685.7	4726.9	1313.1	454.2	275.2	346.5	255.8	173.2	149.8
57.5°	14387.9	14160.4	12520.3	4940.6	1171.4	354.6	239.6	279.3	234.0	152.2	133.6
59°	14610.5	14362.0	12826.3	4950.3	1065.4	309.2	221.8	230.7	229.1	142.5	123.9
60°	14610.5	14346.6	12914.6	4898.5	988.4	284.1	210.5	205.6	238.8	136.0	118.2
62.5°	14345.8	13975.1	12628.0	4548.0	806.3	242.1	183.8	170.0	214.5	122.2	104.4
65°	13795.3	13255.4	11651.7	3914.1	718.9	221.8	158.7	139.2	149.0	107.7	91.5
67.5°	12877.3	12145.5	10243.9	3162.1	684.1	216.1	136.8	118.2	112.5	92.3	80.1
70°	11260.7	10448.7	8535.0	2486.1	654.1	213.7	115.0	99.6	90.7	77.7	68.0
72.5°	8195.8	7349.0	6059.4	1943.7	636.3	218.6	92.3	83.4	74.5	60.7	52.6
75°	4688.0	4133.5	3405.7	1283.9	542.4	208.9	71.2	69.6	53.4	43.7	36.4
77.5°	2422.1	2348.5	2040.8	493.0	259.9	91.5	47.0	40.5	31.6	26.7	21.9
80°	1045.1	1033.8	894.5	142.5	68.8	51.0	26.7	17.0	14.6	11.3	8.9
82.5°	361.1	361.1	318.1	47.8	30.8	25.1	3.2	0.0	0.0	0.0	0.0
85°	72.9	81.8	57.5	0.0	10.5	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5566.4	5566.4	5566.4	5566.4	5566.4	5566.4	5566.4	5566.4	5566.4	5566.4	5566.4
2.5°	4854.8	4756.8	4750.4	4688.8	4611.9	4577.1	4556.9	4592.5	4636.2	4641.1	4706.7
5°	3768.4	3665.6	3708.5	3599.2	3621.1	3599.2	3563.6	3570.1	3589.5	3528.8	3604.1
7.5°	2646.4	2568.7	2618.0	2588.9	2627.8	2643.1	2621.3	2588.9	2493.4	2482.0	2547.6
10°	1994.7	1906.5	1853.8	1798.8	1810.9	1836.0	1827.9	1804.5	1743.7	1747.0	1810.1
12.5°	1602.9	1504.1	1399.7	1264.5	1231.3	1249.9	1231.3	1217.5	1159.3	1164.1	1220.0
15°	1215.9	1135.0	1025.7	917.2	858.1	863.8	812.0	775.5	739.1	695.4	729.4
17.5°	820.9	771.5	739.1	706.7	636.3	620.1	554.5	484.1	456.6	436.3	450.9
20°	581.2	554.5	541.6	540.0	499.5	479.2	415.3	371.6	357.8	353.8	362.7
22.5°	485.7	466.3	447.7	437.2	416.9	393.4	344.9	323.0	313.3	308.4	314.9
25°	422.6	408.0	388.6	370.8	362.7	337.6	302.8	286.6	280.1	275.2	278.5
27.5°	375.6	362.7	340.0	328.7	322.2	300.3	270.4	257.4	251.8	250.1	249.3
30°	338.4	326.2	305.2	292.2	280.9	261.5	243.7	230.7	225.1	223.4	221.8
32.5°	301.1	291.4	277.7	264.7	252.6	234.8	219.4	208.9	200.0	198.3	197.5
35°	254.2	244.5	237.2	236.4	225.1	208.1	196.7	183.0	175.7	173.2	174.1
37.5°	225.9	212.9	196.7	202.4	199.1	187.0	171.6	157.9	150.6	149.0	149.0
40°	208.1	194.3	175.7	166.0	175.7	173.2	149.0	135.2	127.9	127.1	125.5
42.5°	191.1	177.3	156.2	140.1	144.9	152.2	128.7	115.8	108.5	106.9	104.4
45°	178.9	164.3	140.9	122.2	112.5	127.9	110.1	93.9	89.9	86.6	85.0
47.5°	167.6	153.8	127.1	106.0	89.9	92.3	88.2	76.9	72.0	68.8	68.0
50°	157.9	143.3	115.0	90.7	74.5	68.0	71.2	60.7	56.7	53.4	51.8
52.5°	146.5	132.8	102.0	78.5	62.3	53.4	54.2	47.8	43.7	41.3	40.5
55°	137.6	123.9	91.5	68.8	55.0	43.7	38.9	37.2	34.8	33.2	32.4
57.5°	125.5	112.5	81.0	58.3	47.0	35.6	30.0	30.0	29.1	27.5	26.7
59°	118.2	106.9	74.5	52.6	42.9	30.8	26.7	27.5	26.7	25.1	24.3
60°	112.5	102.0	69.6	48.6	40.5	28.3	24.3	25.9	25.1	23.5	22.7
62.5°	99.6	92.3	59.9	40.5	35.6	22.7	20.2	21.9	21.9	21.0	20.2
65°	87.4	79.3	51.0	34.0	33.2	19.4	16.2	19.4	20.2	18.6	17.0
67.5°	76.1	68.0	44.5	27.5	30.8	15.4	12.1	16.2	21.9	17.0	15.4
70°	64.8	56.7	34.8	21.9	32.4	10.5	9.7	14.6	25.9	18.6	14.6
72.5°	50.2	43.7	24.3	16.2	34.8	7.3	7.3	12.1	29.1	20.2	13.8
75°	34.8	28.3	14.6	9.7	28.3	4.9	4.9	11.3	27.5	18.6	13.0
77.5°	20.2	15.4	4.9	0.8	14.6	0.0	0.8	8.1	19.4	11.3	5.7
80°	7.3	3.2	0.0	0.0	8.9	0.0	0.0	0.0	1.6	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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	5566.4	5566.4	5566.4	5566.4	5566.4	5566.4	5566.4	5566.4	5566.4	5566.4	5566.4
2.5°	4723.7	4832.9	4930.9	5079.0	5254.7	5457.1	5631.1	5818.2	5993.8	6066.7	6116.9
5°	3619.4	3754.6	3912.5	4130.3	4420.1	4777.1	5111.4	5489.5	5895.9	6099.1	6290.1
7.5°	2559.0	2696.6	2892.5	3124.0	3474.5	3899.5	4336.7	4858.8	5409.3	5730.7	6047.2
10°	1840.1	2009.3	2192.2	2508.8	2865.0	3268.1	3718.2	4301.1	4914.7	5270.9	5652.2
12.5°	1252.4	1445.0	1721.9	2076.5	2495.0	2890.1	3281.1	3837.2	4549.6	4902.6	5311.4
15°	751.3	858.1	1151.2	1561.6	2074.8	2567.0	2995.3	3553.1	4312.4	4744.7	5169.7
17.5°	463.1	512.4	671.9	1008.7	1547.8	2170.4	2757.3	3456.7	4346.4	4872.6	5327.6
20°	369.1	388.6	439.6	595.8	1025.7	1733.2	2489.3	3437.3	4624.1	5271.7	5759.9
22.5°	320.6	339.2	373.2	433.1	645.2	1297.7	2235.1	3455.1	5022.4	5870.0	6439.9
25°	282.5	298.7	331.1	380.5	472.8	914.0	1963.1	3534.4	5541.3	6612.3	7217.8
27.5°	252.6	266.3	296.3	341.6	405.6	637.9	1654.7	3630.8	6156.5	7371.7	7969.1
30°	225.1	237.2	263.9	306.0	352.1	490.6	1316.3	3696.4	6772.6	7969.1	8505.8
32.5°	201.6	210.5	234.8	270.4	306.0	391.0	1000.6	3685.8	7230.0	8466.1	8892.0
35°	177.3	186.2	207.2	238.0	266.3	323.0	786.9	3489.1	7628.3	8981.8	9334.0
37.5°	150.6	161.9	182.1	209.7	229.1	284.1	636.3	3251.9	8032.2	9571.2	9827.0
40°	127.9	139.2	157.1	187.0	199.1	269.6	489.0	2962.9	8486.4	10230.1	10367.8
42.5°	106.0	116.6	135.2	161.1	187.8	232.3	361.9	2632.6	8922.7	10793.6	10860.8
45°	85.8	96.3	115.8	141.7	200.8	192.7	280.1	2278.8	9274.9	11262.3	11284.2
47.5°	68.0	77.7	98.0	133.6	187.0	153.8	200.0	2001.2	9570.4	11628.2	11570.7
50°	52.6	60.7	81.8	153.0	163.5	127.1	151.4	1908.9	9835.1	11854.9	11705.9
52.5°	41.3	48.6	67.2	143.3	127.1	105.2	127.1	1995.5	10197.8	12042.7	11782.0
55°	33.2	40.5	52.6	81.8	86.6	89.0	108.5	2076.5	10823.5	12483.1	12231.3
57.5°	27.5	34.8	42.9	57.5	65.6	75.3	96.3	2085.4	11561.0	13214.9	12976.9
59°	25.1	31.6	38.9	51.0	57.5	68.8	90.7	2036.8	11820.9	13481.2	13362.2
60°	23.5	30.0	36.4	47.0	53.4	64.8	87.4	1990.7	11832.2	13471.5	13526.6
62.5°	20.2	26.7	32.4	39.7	45.3	55.0	78.5	1819.8	11353.0	13030.3	13427.8
65°	17.8	23.5	29.1	34.0	38.9	49.4	71.2	1508.2	10534.5	12318.7	12751.8
67.5°	16.2	20.2	26.7	30.0	34.8	43.7	63.1	1075.1	9512.1	11448.5	11729.4
70°	14.6	19.4	24.3	27.5	31.6	38.0	54.2	617.7	8032.2	10174.3	10374.2
72.5°	13.8	18.6	21.9	25.9	28.3	34.0	49.4	290.6	5881.3	8150.4	8672.6
75°	12.1	17.0	20.2	24.3	26.7	30.8	42.1	139.2	3911.7	5898.3	6491.7
77.5°	7.3	13.8	18.6	21.9	23.5	26.7	34.8	80.1	2496.6	4082.5	4808.7
80°	0.0	4.9	13.8	18.6	20.2	22.7	26.7	63.1	1335.7	2332.3	2799.4
82.5°	0.0	0.0	9.7	14.6	13.8	15.4	20.2	39.7	602.3	1524.4	1717.8
85°	0.0	0.0	3.2	11.3	9.7	7.3	13.8	13.8	132.0	771.5	962.5
87.5°	0.0	0.0	0.0	0.8	4.9	3.2	5.7	1.6	0.8	57.5	233.1
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5566.4	5566.4	5566.4	5566.4	5566.4	5566.4	5566.4	5566.4	5566.4	5566.4
2.5°	6292.5	6352.4	6453.6	6501.4	6477.9	6378.4	6259.3	6137.9	6066.7	6095.0
5°	6679.5	6987.9	7166.0	7225.1	7126.4	6902.9	6610.7	6225.3	6088.5	6051.3
7.5°	6679.5	7259.9	7627.5	7692.2	7472.0	7034.1	6486.0	5884.5	5684.6	5611.7
10°	6444.7	7234.8	7747.3	7850.1	7542.5	6887.6	6153.3	5466.8	5229.6	5154.3
12.5°	6180.0	7030.8	7570.8	7712.5	7459.9	6741.8	5922.6	5184.3	4905.0	4839.4
15°	6017.3	6779.9	7226.7	7329.6	7222.7	6656.8	5867.5	5099.3	4770.6	4707.5
17.5°	6075.6	6585.6	6746.7	6806.6	6878.6	6626.9	6017.3	5285.5	4869.4	4809.5
20°	6295.0	6380.8	6297.4	6372.7	6567.0	6656.0	6374.3	5735.6	5236.1	5155.9
22.5°	6667.4	6274.7	6040.8	6070.7	6307.1	6752.4	6919.9	6378.4	5802.0	5701.6
25°	7101.3	6360.5	5898.3	5871.6	6114.4	6879.5	7418.6	7077.8	6471.4	6360.5
27.5°	7646.9	6553.2	5869.2	5842.4	6047.2	6998.5	7833.1	7769.1	7176.6	6987.1
30°	8067.9	6742.6	5955.8	5894.2	6114.4	7081.0	8165.8	8356.1	7738.4	7612.9
32.5°	8369.8	6966.1	6096.6	6007.6	6303.9	7223.5	8422.4	8893.6	8258.1	8067.9
35°	8599.7	7208.9	6324.1	6177.6	6564.5	7439.7	8662.9	9465.9	8811.0	8603.0
37.5°	8815.1	7549.8	6679.5	6504.6	6973.4	7787.8	8917.1	10115.2	9429.5	9181.0
40°	9115.4	7935.9	7227.6	7072.1	7660.7	8262.1	9234.4	10792.0	10133.0	9820.5
42.5°	9415.7	8350.4	7788.6	7830.7	8518.0	8838.5	9644.0	11507.6	10827.6	10494.0
45°	9690.2	8777.8	8587.6	8781.9	9313.7	9470.8	10051.2	11921.3	11382.1	11059.9
47.5°	9934.7	9312.1	9381.7	9899.0	10218.8	10043.1	10355.6	12278.3	11795.0	11510.8
50°	10218.8	10003.5	10428.5	11160.3	11260.7	10561.2	10632.5	12700.8	12277.5	12049.2
52.5°	10529.7	10732.0	11587.7	12232.9	12200.5	11123.9	10911.0	13174.4	12938.8	12724.3
55°	10882.6	11320.6	12608.6	13236.8	13209.2	11752.1	11372.4	13759.7	13767.8	13573.5
57.5°	11406.4	11827.4	13301.5	14048.7	14094.9	12477.4	12154.4	14415.4	14517.4	14387.9
59°	11782.0	12156.0	13576.0	14387.9	14575.7	13038.4	12725.9	14795.9	14728.7	14610.5
60°	12060.5	12364.9	13712.0	14565.2	14855.0	13418.9	13147.7	15019.4	14753.8	14610.5
62.5°	12749.4	12819.8	13957.2	14766.0	15176.4	14264.1	14334.5	15399.8	14579.8	14345.8
65°	13070.8	13107.2	13954.0	14406.5	14865.5	14922.2	15411.2	15411.2	14154.8	13795.3
67.5°	12936.4	12760.7	13261.9	13214.9	13673.1	14531.2	15815.9	14846.1	13342.0	12877.3
70°	11843.5	11167.6	10945.0	10965.2	11315.7	12639.3	15014.5	13183.3	11803.9	11260.7
72.5°	9854.5	8233.0	7683.3	8310.7	8402.2	9713.6	12795.6	9928.2	8705.0	8195.8
75°	7926.2	5803.6	4909.8	5572.1	5727.5	7108.6	9898.2	6183.3	5084.7	4688.0
77.5°	5694.3	4165.9	3523.1	3477.0	3677.7	4508.3	7023.6	3111.9	2595.4	2422.1
80°	3234.9	2741.9	2952.4	2785.6	2886.8	2818.8	3336.9	1364.9	1118.0	1045.1
82.5°	1952.6	1620.7	1755.1	1461.2	1849.0	1610.2	1285.5	437.2	379.7	361.1
85°	1270.2	885.6	461.4	309.2	637.1	1028.9	287.4	119.0	91.5	72.9
87.5°	438.0	225.9	22.7	9.7	68.0	191.9	10.5	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

(END OF REPORT)