

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: P324228

Luminaire Tested: **GAN-SA4A-760-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324228
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-SA4A-760-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5700K, 615mA 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: 13936 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

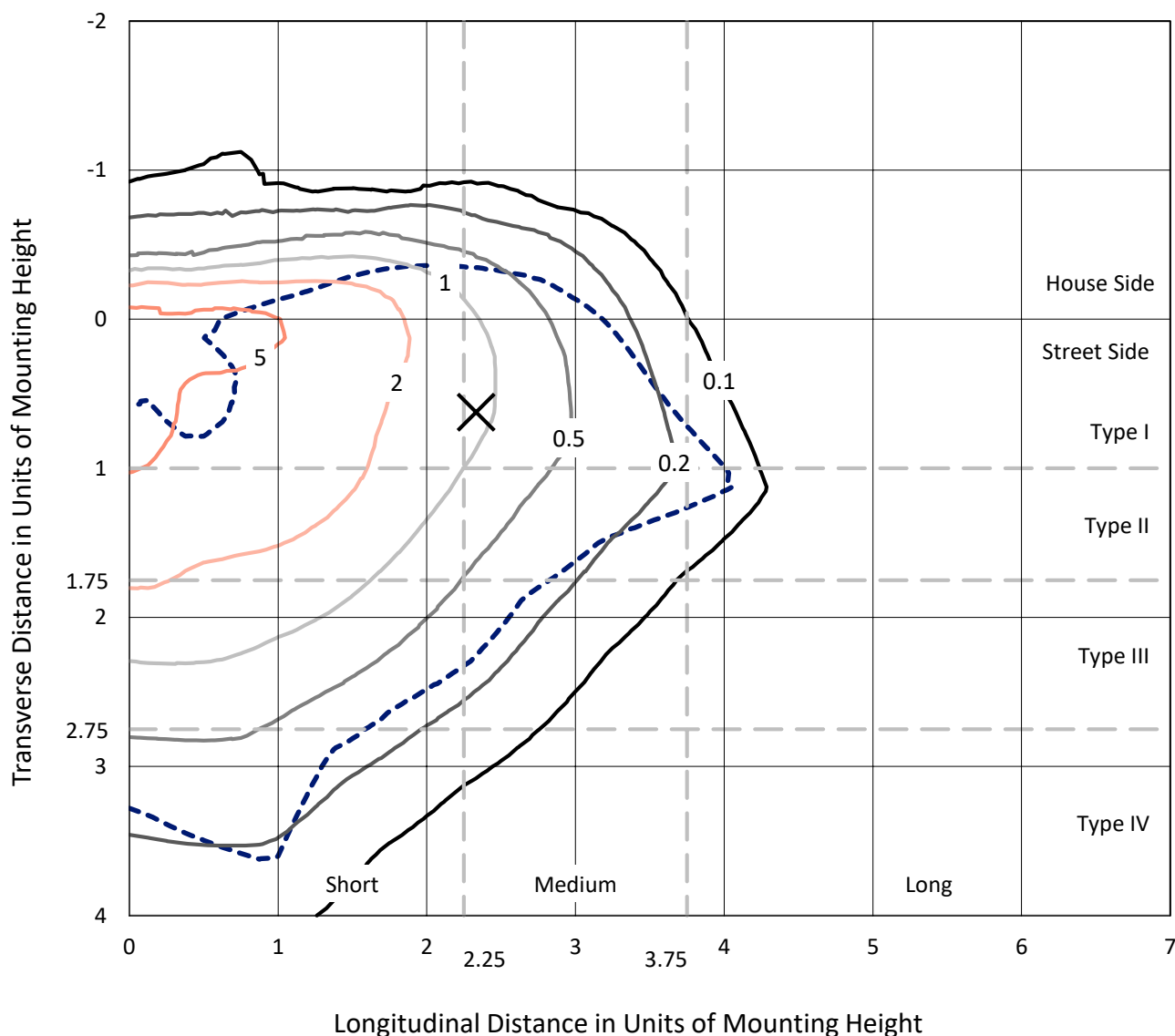
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

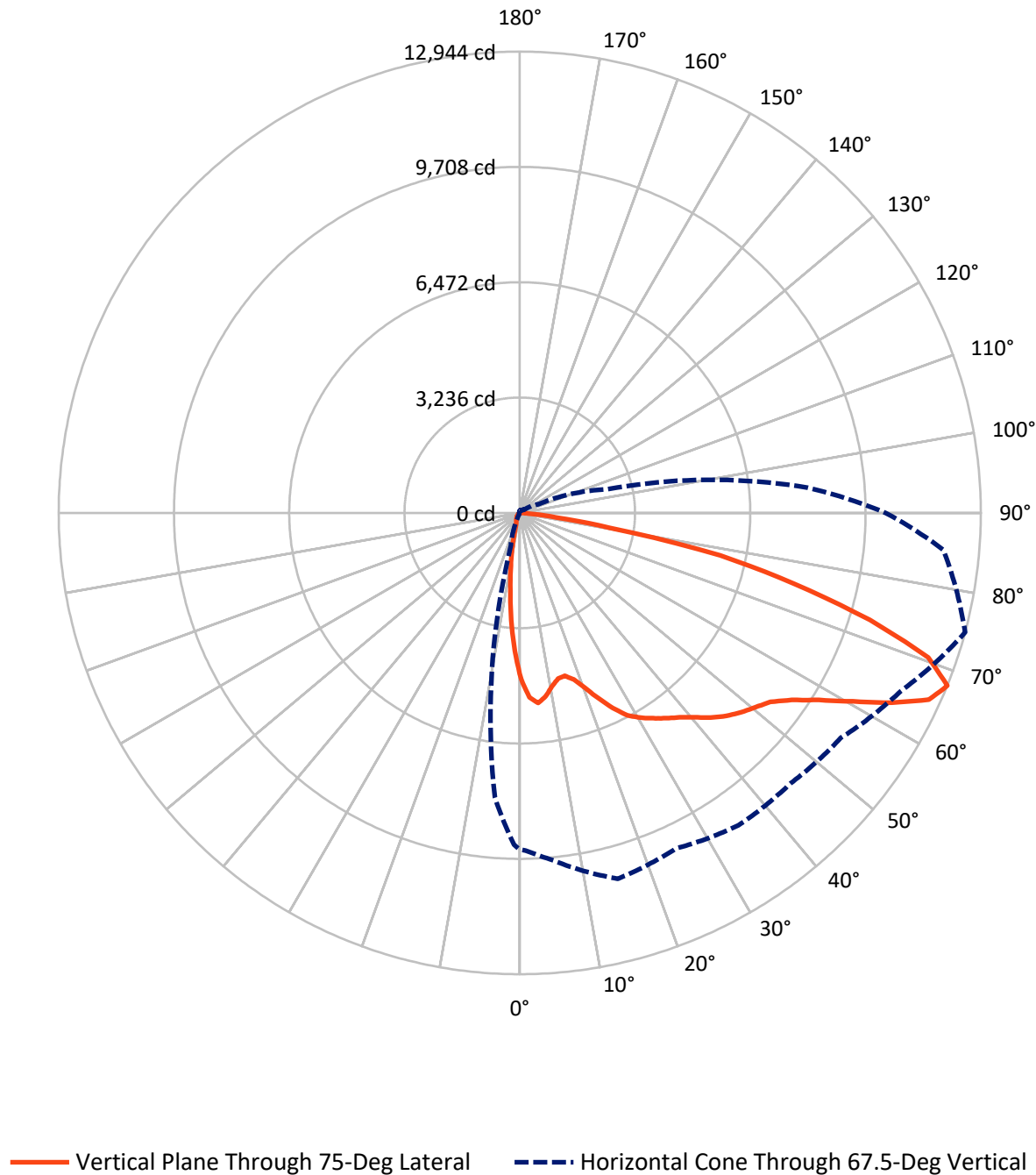
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 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	2091.2	0.0	2091.2
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	11844.8	0.0	11844.8
	% Fixture	85.0	0.0	85.0
Total	Lumens	13936.0	0.0	13936.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	354.6	2.5
10°-20°	698.3	5.0
20°-30°	987.9	7.1
30°-40°	1452.5	10.4
40°-50°	2087.7	15.0
50°-60°	2938.9	21.1
60°-70°	3432.4	24.6
70°-80°	1751.1	12.6
80°-90°	232.6	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°	13936.0	100.0
0°-180°	13936.0	100.0

Coefficient of Utilization



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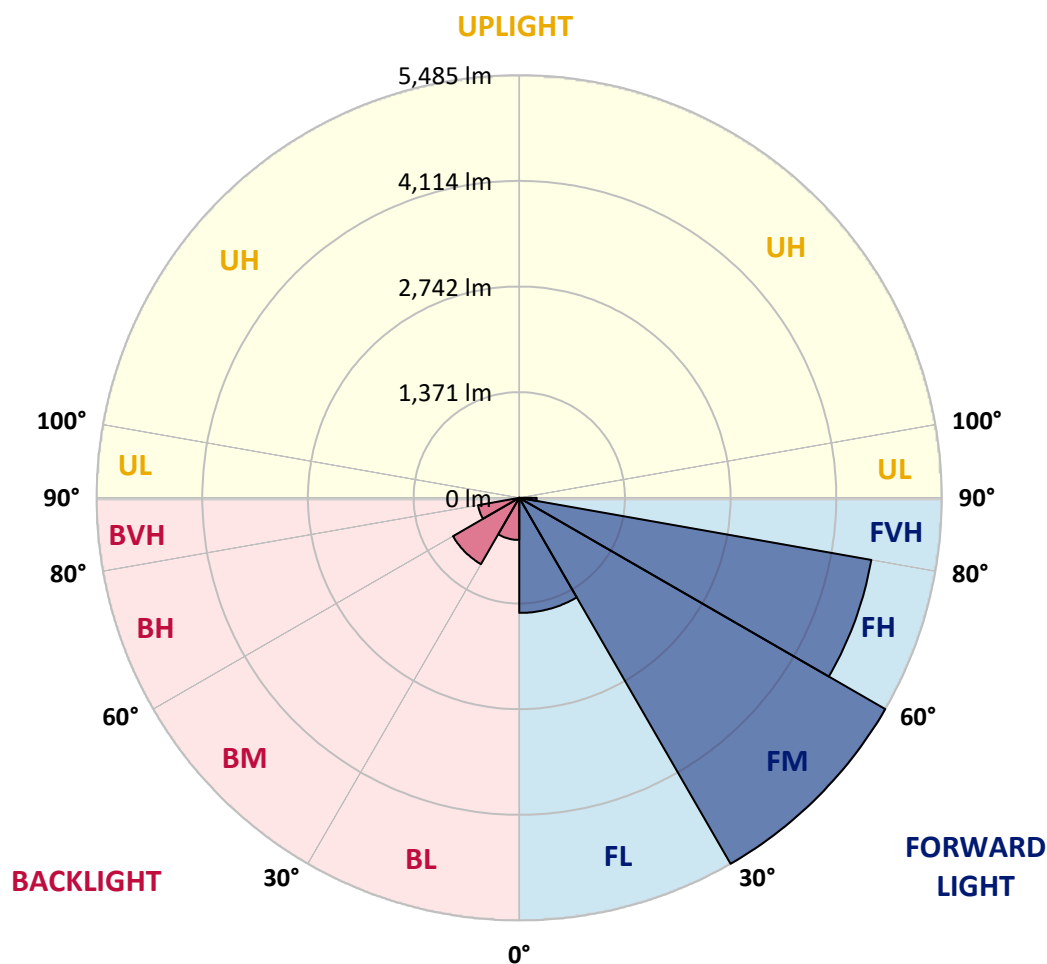
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1493.9	10.7			
FM	(30°-60°)	5485.0	39.4			
FH	(60°-80°)	4640.3	33.3			G2/5000
FVH	(80°-90°)	225.6	1.6			G3/500
BL	(0°-30°)	546.9	3.9	B2/1000		
BM	(30°-60°)	994.1	7.1	B1/1000		
BH	(60°-80°)	543.2	3.9	B2/1000		G2/1000
BVH	(80°-90°)	7.1	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4675.3	4675.3	4675.3	4675.3	4675.3	4675.3	4675.3	4675.3	4675.3	4675.3	4675.3
2.5°	5068.1	5076.0	5116.9	5212.0	5315.6	5323.6	5393.5	5321.6	5297.2	5181.0	5060.8
5°	5106.4	5136.7	5277.4	5556.6	5798.9	5876.8	5932.2	5791.0	5642.4	5358.6	5055.5
7.5°	4798.1	4848.9	5070.1	5594.2	6027.3	6218.8	6255.1	6033.9	5670.2	5202.8	4747.2
10°	4403.3	4461.4	4728.1	5372.4	5967.2	6295.3	6345.5	6055.7	5532.8	4950.6	4413.9
12.5°	4083.8	4151.8	4424.4	5122.9	5760.6	6123.7	6222.7	5982.4	5414.0	4771.7	4186.1
15°	3936.6	4014.5	4301.0	4961.8	5531.5	5817.4	5899.2	5795.6	5348.0	4743.3	4133.3
17.5°	4021.1	4105.6	4401.3	4975.7	5316.3	5438.4	5504.5	5546.7	5348.0	4914.3	4287.8
20°	4367.7	4458.8	4771.7	5116.3	5138.1	5092.5	5163.2	5311.7	5410.1	5239.1	4658.8
22.5°	4846.9	4953.9	5307.1	5357.2	5050.9	4878.6	4887.9	5120.9	5522.9	5651.0	5173.7
25°	5431.2	5561.9	5921.0	5716.4	5087.2	4751.2	4747.9	4963.8	5633.2	6063.6	5747.4
27.5°	6011.5	6155.4	6470.9	6154.7	5237.1	4728.1	4721.5	4916.2	5740.8	6430.7	6373.9
30°	6498.0	6638.0	6909.9	6472.3	5398.8	4782.2	4750.5	4967.1	5804.8	6669.0	6830.7
32.5°	6894.1	7006.3	7226.2	6690.8	5571.8	4887.2	4818.5	5103.1	5913.8	6870.3	7250.6
35°	7329.8	7448.0	7535.8	6898.7	5765.9	5038.4	4940.0	5319.0	6081.4	7075.0	7710.7
37.5°	7826.9	7944.4	7933.9	7088.9	6012.1	5288.6	5225.9	5660.9	6342.2	7277.7	8224.3
40°	8313.5	8433.6	8347.8	7296.8	6301.3	5701.2	5655.0	6174.5	6691.4	7537.1	8826.4
42.5°	8769.0	8899.0	8715.5	7493.5	6645.9	6221.4	6300.6	6836.0	7128.5	7856.6	9345.3
45°	9136.0	9268.7	9023.8	7685.0	7009.0	6852.5	7090.8	7568.8	7654.0	8126.6	9695.8
47.5°	9402.7	9528.2	9237.7	7876.4	7473.7	7624.2	8039.5	8337.2	8128.6	8361.0	9944.7
50°	9573.1	9670.8	9300.4	8116.1	8083.7	8524.7	9027.8	9173.0	8575.5	8572.2	10247.1
52.5°	9681.3	9725.6	9346.6	8366.3	8720.1	9505.1	9995.6	10041.1	9035.7	8804.6	10654.4
55°	10054.3	10090.0	9674.1	8669.3	9246.3	10363.9	10870.9	10828.7	9556.6	9259.5	11135.0
57.5°	10690.7	10728.3	10350.7	9105.0	9672.1	10894.7	11505.4	11581.3	10167.2	9898.5	11649.9
60°	11010.2	11080.2	10945.5	9656.9	10084.7	11234.0	11937.8	12180.0	10930.4	10740.9	12149.0
62.5°	10720.4	10822.1	11017.5	10268.9	10494.6	11420.9	12072.4	12394.6	11712.0	11722.6	12456.7
65°	10142.1	10223.3	10554.7	10604.2	10732.3	11397.8	11739.7	12094.9	12190.6	12624.3	12440.2
67.5°	9443.7	9474.0	9755.3	10630.6	10387.7	10703.3	10740.2	11003.0	11812.3	12943.9	11940.4
70°	8438.2	8454.7	8700.3	9746.7	8926.8	8996.1	8941.3	8994.8	10155.3	12165.5	10678.8
72.5°	6791.1	6832.7	7181.9	8094.3	6503.3	6303.3	6733.7	6709.9	7821.0	10278.1	7931.2
75°	5000.1	5072.0	5599.5	6519.8	4564.4	4128.7	4442.9	4526.8	5559.9	7950.4	4959.8
77.5°	3500.9	3554.3	4065.3	4792.8	3303.5	2952.3	2838.7	2938.4	3669.9	5751.4	2498.7
80°	2016.8	2036.6	2362.7	2767.4	2226.1	2546.9	2307.3	2375.9	2199.0	2558.8	1074.7
82.5°	1319.7	1323.0	1450.4	1647.1	1386.3	1610.8	1192.3	1524.3	1352.7	1027.9	349.9
85°	713.0	716.9	841.1	1169.2	784.9	443.6	260.8	535.4	836.4	235.7	95.7
87.5°	78.6	72.0	253.5	425.1	217.9	40.3	13.9	60.1	134.0	15.2	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°	4675.3	4675.3	4675.3	4675.3	4675.3	4675.3	4675.3	4675.3	4675.3	4675.3	4675.3
2.5°	4999.4	4944.6	4808.0	4663.4	4547.2	4438.3	4328.7	4194.7	4091.0	4069.9	4035.6
5°	4892.5	4718.9	4432.3	4144.5	3912.8	3620.3	3434.8	3290.3	3149.0	3140.4	3112.0
7.5°	4518.8	4290.4	3887.1	3489.0	3162.9	2884.3	2603.0	2414.9	2267.0	2214.9	2183.8
10°	4159.7	3902.9	3399.2	2945.0	2653.9	2407.6	2209.6	2012.8	1834.6	1711.8	1656.4
12.5°	3908.8	3625.0	3069.8	2678.3	2469.7	2236.0	1994.4	1748.8	1543.5	1395.6	1305.1
15°	3811.8	3508.8	2959.5	2572.7	2315.2	2019.4	1710.5	1429.9	1202.2	1068.1	986.9
17.5°	3927.3	3574.8	2950.9	2443.9	2084.1	1716.4	1375.1	1043.7	829.2	727.5	675.3
20°	4220.4	3784.7	2947.6	2286.2	1809.5	1357.3	931.5	686.6	556.5	499.7	475.3
22.5°	4635.0	4052.8	2974.0	2130.4	1523.7	969.8	643.0	504.4	437.7	407.3	393.5
25°	5168.4	4429.0	3048.6	1989.1	1255.0	723.5	501.1	422.5	375.6	351.9	342.0
27.5°	5736.8	4862.1	3164.8	1866.3	1036.5	577.0	429.1	361.8	328.1	311.6	302.4
30°	6205.6	5363.8	3282.3	1729.6	878.0	503.0	392.8	330.1	291.1	280.6	272.0
32.5°	6615.5	5743.4	3365.5	1606.2	774.4	446.9	355.2	295.1	268.7	248.2	239.0
35°	7040.0	6059.7	3362.9	1519.7	703.1	404.7	323.5	264.1	232.4	208.6	201.4
37.5°	7499.5	6416.8	3305.4	1445.8	672.0	371.0	305.7	247.6	215.9	192.1	182.9
40°	8037.5	6791.8	3246.7	1376.4	663.5	343.9	293.1	234.4	200.7	177.6	168.3
42.5°	8561.7	7129.8	3195.2	1325.0	626.5	343.3	281.9	224.5	188.8	166.4	155.8
45°	8980.9	7444.7	3185.3	1293.9	587.5	355.2	275.9	217.9	179.6	157.1	147.2
47.5°	9329.5	7786.6	3248.7	1272.1	550.6	324.1	290.5	213.2	171.0	149.2	138.0
50°	9744.0	8206.5	3397.9	1236.5	511.6	291.8	332.7	214.6	163.7	141.3	129.4
52.5°	10322.3	8787.5	3617.0	1176.4	458.2	262.1	327.4	215.9	155.8	132.7	120.8
55°	10970.6	9513.0	3852.7	1076.7	383.6	223.1	280.6	206.6	140.6	123.5	112.2
57.5°	11651.9	10171.2	3992.7	957.9	305.0	192.8	224.5	188.1	124.1	110.9	103.6
60°	11758.9	10421.4	3928.6	812.0	242.3	167.7	166.4	191.4	110.9	97.7	92.4
62.5°	11492.8	10107.1	3619.0	682.0	202.7	147.2	136.7	167.0	100.3	87.1	81.9
65°	10981.2	9257.5	3117.3	614.6	188.1	126.1	113.5	117.5	87.8	75.9	71.3
67.5°	10269.5	8123.3	2559.5	576.3	186.2	108.3	97.0	89.1	75.9	66.0	62.1
70°	8814.5	6767.4	2041.9	555.2	180.9	91.1	81.9	72.6	63.4	56.1	52.8
72.5°	6487.4	4795.4	1588.4	532.1	182.2	72.6	71.3	60.1	50.8	43.6	42.3
75°	3748.4	2739.7	1041.7	431.1	173.6	56.1	59.4	42.3	35.6	30.4	30.4
77.5°	1997.7	1670.9	396.8	179.6	63.4	35.6	33.7	25.1	22.4	18.5	17.8
80°	870.8	735.4	119.5	50.2	35.0	19.1	12.5	11.2	9.9	7.9	7.3
82.5°	308.3	266.0	38.9	24.4	15.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	70.0	50.2	0.0	5.9	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°	4675.3	4675.3	4675.3	4675.3	4675.3	4675.3	4675.3	4675.3	4675.3	4675.3	4675.3
2.5°	3965.6	3951.1	3865.3	3868.6	3883.8	3905.5	3854.0	3877.8	3941.8	4003.2	4026.3
5°	3066.5	3069.8	3017.6	3050.0	3079.0	3098.8	3015.6	3017.0	3067.8	3137.1	3173.4
7.5°	2160.7	2155.4	2158.1	2235.3	2290.1	2250.5	2281.5	2173.9	2180.5	2230.0	2193.1
10°	1606.2	1533.6	1492.6	1550.7	1610.8	1589.0	1535.5	1500.6	1525.0	1579.8	1575.8
12.5°	1262.2	1157.9	1096.5	1054.9	1104.5	1063.5	1062.2	1031.8	998.8	1004.8	1092.6
15°	949.3	873.4	800.8	734.1	732.8	718.9	648.3	569.1	562.5	566.4	612.0
17.5°	652.9	627.2	597.4	540.0	524.8	466.7	398.1	366.4	350.5	357.8	373.0
20°	458.8	448.9	452.2	421.2	399.4	343.9	303.7	291.1	288.5	295.8	303.0
22.5°	380.3	362.4	360.5	346.6	324.8	284.5	262.7	255.5	252.2	258.8	264.1
25°	332.7	314.9	307.6	299.1	275.9	248.2	235.0	228.4	225.1	229.1	232.4
27.5°	293.1	276.6	270.0	264.1	241.6	221.8	211.3	205.3	202.7	204.0	207.3
30°	263.4	248.9	240.3	233.0	213.9	200.0	190.8	184.8	182.2	182.2	185.5
32.5°	232.4	224.5	216.5	207.3	189.5	180.2	171.0	164.4	161.7	162.4	165.0
35°	193.4	190.8	192.8	184.2	169.0	161.1	151.8	144.6	142.6	143.3	145.9
37.5°	171.6	159.8	167.0	162.4	153.8	143.3	131.4	124.8	121.5	123.5	124.8
40°	157.8	143.3	138.0	142.6	141.3	124.1	113.5	106.9	104.3	105.0	106.3
42.5°	145.9	128.7	116.8	116.2	124.1	108.3	97.0	91.1	87.8	87.8	89.1
45°	134.7	116.2	101.7	90.4	104.3	91.8	81.2	75.9	72.0	72.0	72.6
47.5°	126.1	105.6	88.5	73.9	78.6	75.3	66.7	61.4	57.4	57.4	58.1
50°	118.2	95.1	76.6	62.1	58.8	62.1	54.1	48.2	45.6	44.9	46.2
52.5°	109.6	84.5	65.4	52.8	46.2	46.9	42.3	38.3	35.0	35.0	36.3
55°	101.0	75.9	56.8	44.9	38.3	35.0	33.7	31.0	28.4	28.4	29.7
57.5°	92.4	66.7	48.2	37.0	30.4	27.7	27.7	25.7	23.8	23.8	25.1
60°	84.5	57.4	39.6	30.4	23.8	23.1	23.8	21.8	20.5	20.5	21.8
62.5°	75.3	48.9	32.3	25.1	19.1	18.5	20.5	19.1	17.8	17.8	19.1
65°	64.0	41.6	25.7	19.1	14.5	14.5	17.2	15.8	14.5	14.5	15.8
67.5°	54.1	35.0	19.8	13.9	10.6	11.2	14.5	13.2	12.5	12.5	13.9
70°	44.9	27.1	13.9	8.6	5.9	8.6	11.2	11.2	11.2	11.2	12.5
72.5°	33.7	18.5	7.9	3.3	2.6	5.9	9.2	10.6	9.9	9.9	11.9
75°	21.8	10.6	2.6	0.0	0.0	3.3	7.3	8.6	8.6	7.9	9.9
77.5°	12.5	3.3	0.0	0.0	0.0	0.0	4.6	4.0	3.3	2.6	4.6
80°	3.3	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°	4675.3	4675.3	4675.3	4675.3	4675.3	4675.3	4675.3	4675.3	4675.3	4675.3
2.5°	4119.4	4197.3	4306.9	4423.1	4602.0	4743.9	4883.2	5002.7	5048.9	5068.1
5°	3260.6	3374.8	3535.2	3741.2	4064.0	4354.4	4648.9	4945.3	5074.0	5106.4
7.5°	2339.6	2485.5	2689.5	2947.6	3325.9	3702.2	4113.5	4548.5	4747.9	4798.1
10°	1731.6	1909.9	2143.6	2415.5	2776.7	3163.5	3611.8	4108.9	4336.6	4403.3
12.5°	1228.6	1469.5	1782.4	2113.2	2426.1	2771.4	3224.9	3772.8	4011.8	4083.8
15°	721.6	954.6	1325.0	1767.9	2168.6	2518.5	2979.3	3600.5	3863.9	3936.6
17.5°	413.9	530.1	810.0	1303.8	1847.8	2332.4	2902.1	3643.5	3953.7	4021.1
20°	316.2	353.2	466.7	839.7	1472.8	2149.5	2902.1	3886.4	4268.6	4367.7
22.5°	276.6	303.7	349.9	501.1	1084.0	1953.4	2935.8	4237.6	4737.3	4846.9
25°	245.6	270.0	309.6	377.0	739.4	1720.4	3015.6	4668.7	5289.2	5431.2
27.5°	219.8	242.9	278.6	330.1	505.7	1439.2	3123.2	5174.4	5897.9	6011.5
30°	196.7	218.5	250.9	287.2	390.2	1120.3	3215.0	5651.0	6375.9	6498.0
32.5°	174.9	194.7	223.8	250.9	319.5	828.5	3224.9	6028.6	6772.6	6894.1
35°	154.5	172.3	198.7	219.8	264.7	654.2	3071.1	6356.1	7169.4	7329.8
37.5°	134.7	151.8	174.9	190.8	233.0	533.4	2836.1	6721.1	7678.4	7826.9
40°	116.2	131.4	155.1	165.7	220.5	410.0	2580.6	7104.0	8177.5	8313.5
42.5°	99.0	113.5	136.7	157.1	193.4	306.3	2304.6	7463.2	8626.4	8769.0
45°	82.5	97.7	120.8	166.4	160.4	229.1	2009.5	7701.5	8980.9	9136.0
47.5°	66.7	83.8	115.5	158.4	128.1	168.3	1775.8	7927.3	9249.6	9402.7
50°	53.5	70.6	130.1	141.3	105.0	128.7	1678.1	8129.3	9425.8	9573.1
52.5°	43.6	59.4	122.8	108.3	87.8	106.3	1731.0	8456.7	9588.9	9681.3
55°	36.3	46.9	73.9	75.3	74.6	90.4	1796.3	8926.8	10010.7	10054.3
57.5°	31.7	37.6	51.5	58.1	62.7	80.5	1797.6	9601.4	10663.6	10690.7
60°	27.1	33.0	42.9	46.9	54.1	72.0	1732.3	9837.1	10920.5	11010.2
62.5°	23.8	29.0	35.6	38.9	45.6	64.7	1579.1	9495.8	10567.9	10720.4
65°	21.1	26.4	29.7	33.0	40.3	58.1	1326.9	8813.2	9983.0	10142.1
67.5°	18.5	23.1	26.4	29.7	36.3	51.5	977.0	8020.3	9311.6	9443.7
70°	16.5	20.5	23.8	26.4	31.7	43.6	592.8	6805.6	8383.4	8438.2
72.5°	15.8	18.5	21.8	23.8	27.7	38.3	300.4	5001.4	6702.0	6791.1
75°	13.9	16.5	19.8	21.1	24.4	33.0	122.1	3285.0	4856.8	5000.1
77.5°	11.2	15.2	17.8	19.1	21.1	27.1	62.1	2099.3	3408.4	3500.9
80°	4.0	11.2	15.2	15.8	17.8	19.8	40.9	1149.3	1977.2	2016.8
82.5°	0.0	7.3	11.9	11.2	12.5	15.2	26.4	546.6	1305.1	1319.7
85°	0.0	3.3	9.2	7.3	5.3	10.6	9.2	119.5	684.6	713.0
87.5°	0.0	0.0	0.7	3.3	2.6	4.0	1.3	0.7	62.1	78.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)