

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: P383142

Luminaire Tested: **GAN-SA4D-735-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383142
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-SA4D-735-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 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: 21614.7 lumens
Efficiency: N/A
Efficacy: 83.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

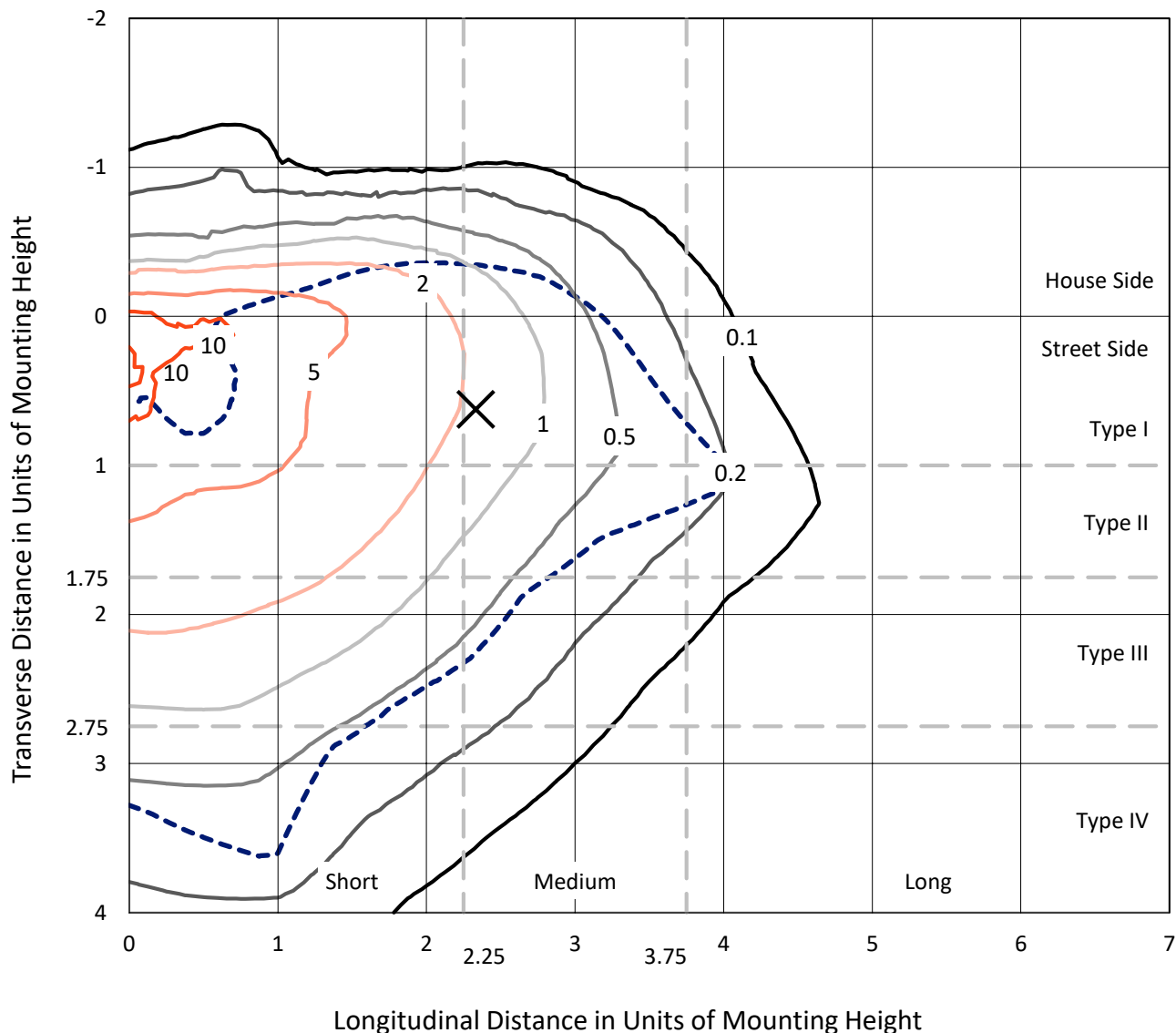
Input Watts (W): 258
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

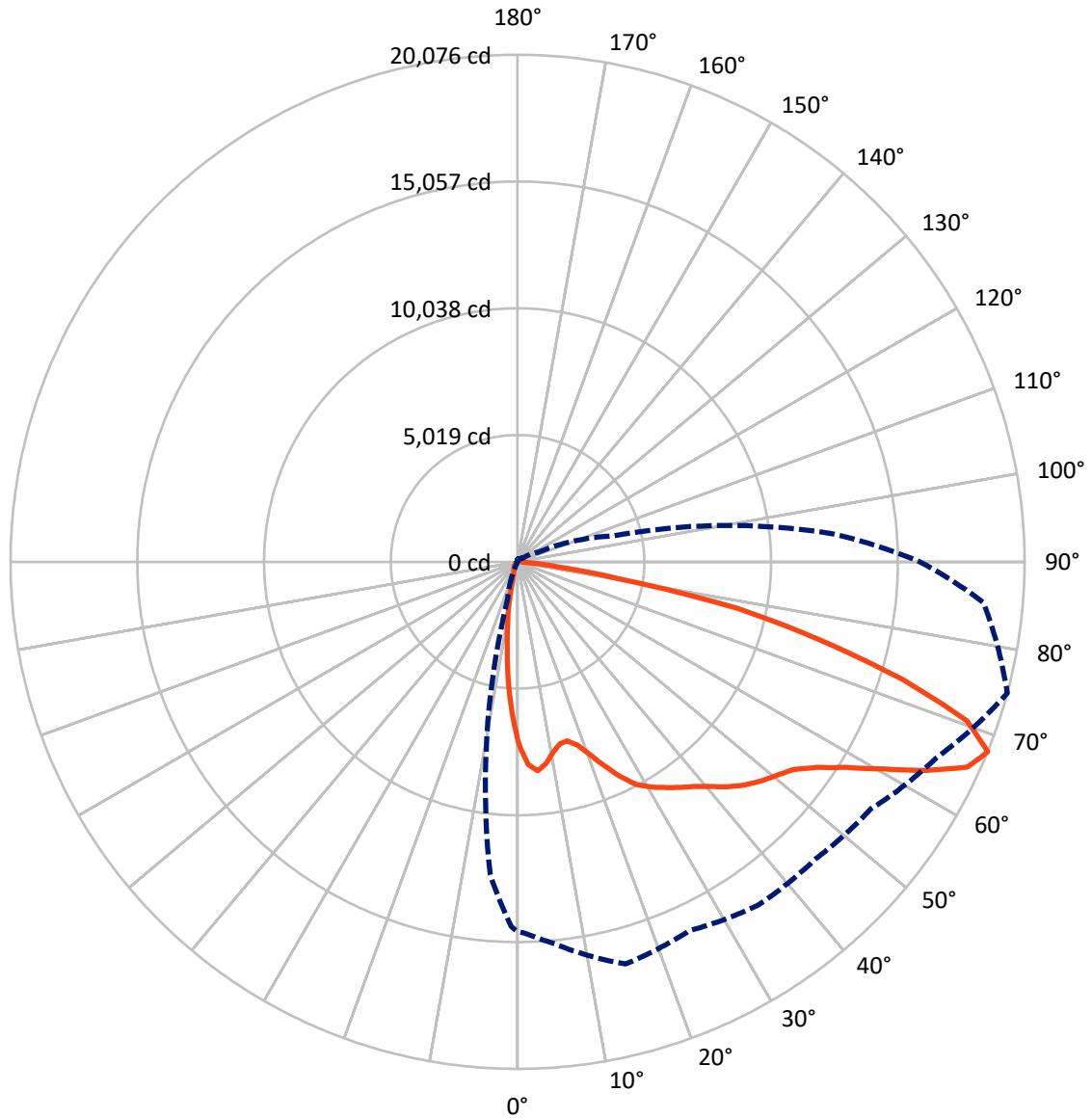
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15 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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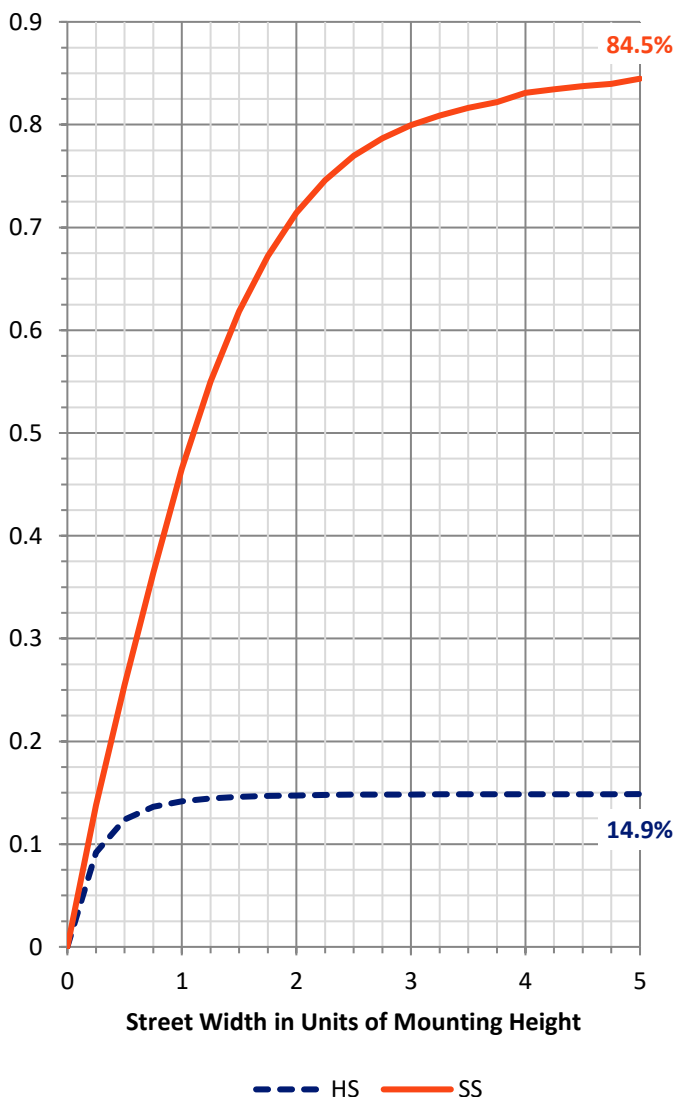
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3243.5	0.0	3243.5
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	18371.2	0.0	18371.2
	% Fixture	85.0	0.0	85.0
Total	Lumens	21614.7	0.0	21614.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	550.0	2.5
10°-20°	1083.1	5.0
20°-30°	1532.2	7.1
30°-40°	2252.8	10.4
40°-50°	3238.0	15.0
50°-60°	4558.2	21.1
60°-70°	5323.6	24.6
70°-80°	2715.9	12.6
80°-90°	360.8	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°	21614.7	100.0
0°-180°	21614.7	100.0

Coefficient of Utilization

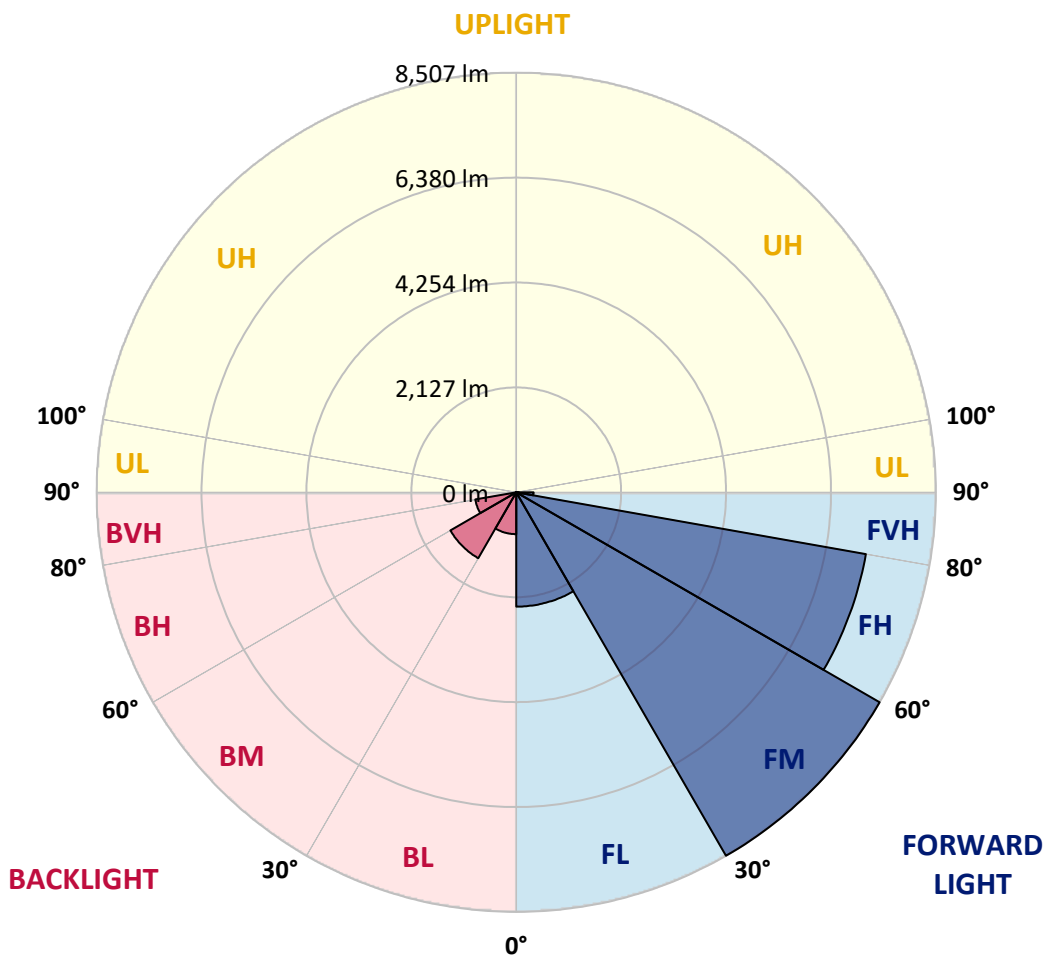


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2317.1	10.7			
FM (30°-60°)	8507.2	39.4			
FH (60°-80°)	7197.1	33.3			G3/7500
FVH (80°-90°)	349.9	1.6			G3/500
BL (0°-30°)	848.2	3.9	B2/1000		
BM (30°-60°)	1541.9	7.1	B2/2500		
BH (60°-80°)	842.5	3.9	B2/1000		G2/1000
BVH (80°-90°)	10.9	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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7251.4	7251.4	7251.4	7251.4	7251.4	7251.4	7251.4	7251.4	7251.4	7251.4	7251.4
2.5°	7860.6	7872.9	7936.3	8083.8	8244.6	8256.9	8365.4	8253.8	8215.9	8035.7	7849.3
5°	7920.0	7967.1	8185.1	8618.3	8994.1	9114.9	9200.9	8981.8	8751.4	8311.1	7841.1
7.5°	7441.9	7520.7	7863.7	8676.6	9348.4	9645.2	9701.6	9358.6	8794.4	8069.4	7363.0
10°	6829.5	6919.6	7333.2	8332.6	9255.2	9764.0	9841.9	9392.3	8581.4	7678.4	6845.9
12.5°	6334.0	6439.4	6862.2	7945.5	8934.7	9497.9	9651.4	9278.7	8397.2	7400.9	6492.6
15°	6105.6	6226.5	6670.8	7695.7	8579.4	9022.7	9149.7	8989.0	8294.7	7356.8	6410.7
17.5°	6236.6	6367.7	6826.5	7717.2	8245.6	8435.0	8537.4	8602.9	8294.7	7622.0	6650.3
20°	6774.2	6915.5	7400.9	7935.3	7969.1	7898.5	8008.0	8238.4	8391.0	8125.8	7225.7
22.5°	7517.6	7683.5	8231.2	8309.0	7833.9	7566.7	7581.0	7942.5	8566.0	8764.7	8024.4
25°	8423.7	8626.5	9183.5	8866.1	7890.3	7369.1	7364.0	7698.8	8737.1	9404.6	8914.2
27.5°	9323.8	9547.0	10036.4	9545.9	8122.7	7333.2	7323.1	7625.1	8903.9	9974.0	9885.9
30°	10078.4	10295.5	10717.3	10038.5	8373.6	7417.3	7368.1	7703.9	9003.3	10343.6	10594.4
32.5°	10692.8	10866.8	11207.7	10377.3	8641.9	7580.0	7473.5	7914.9	9172.2	10655.9	11245.6
35°	11368.5	11551.8	11687.9	10699.9	8942.9	7814.5	7662.0	8249.7	9432.3	10973.3	11959.3
37.5°	12139.6	12321.8	12305.4	10994.8	9324.8	8202.6	8105.3	8780.0	9836.8	11287.7	12756.0
40°	12894.1	13080.5	12947.4	11317.4	9773.2	8842.5	8770.9	9576.7	10378.4	11690.0	13689.7
42.5°	13600.7	13802.4	13517.7	11622.5	10307.8	9649.3	9772.2	10602.6	11056.3	12185.6	14494.5
45°	14170.0	14375.7	13995.9	11919.4	10870.9	10628.2	10997.9	11739.2	11871.3	12604.4	15038.3
47.5°	14583.7	14778.2	14327.7	12216.3	11591.7	11825.2	12469.2	12931.0	12607.5	12967.9	15424.3
50°	14847.8	14999.3	14424.9	12588.0	12537.8	13221.8	14002.0	14227.2	13300.6	13295.5	15893.2
52.5°	15015.7	15084.3	14496.6	12976.1	13524.9	14742.3	15503.1	15573.7	14014.3	13655.9	16524.9
55°	15594.2	15649.5	15004.4	13446.1	14341.0	16074.4	16860.8	16795.2	14822.2	14361.4	17270.3
57.5°	16581.3	16639.7	16053.9	14121.8	15001.4	16897.6	17844.8	17962.6	15769.3	15352.6	18069.0
60°	17076.9	17185.4	16976.5	14977.8	15641.3	17423.9	18515.4	18891.2	16953.0	16659.1	18843.1
62.5°	16627.4	16785.0	17088.1	15926.9	16277.2	17713.8	18724.3	19224.0	18165.3	18181.7	19320.2
65°	15730.4	15856.3	16370.4	16447.1	16645.7	17677.9	18208.3	18759.1	18907.6	19580.3	19294.7
67.5°	14647.1	14694.2	15130.4	16488.1	16111.3	16600.7	16658.0	17065.6	18320.9	20075.9	18519.5
70°	13087.7	13113.3	13494.2	15117.1	13845.4	13952.9	13867.9	13950.9	15750.9	18868.7	16562.8
72.5°	10533.0	10597.5	11139.2	12554.2	10086.6	9776.3	10444.0	10407.1	12130.3	15941.3	12301.3
75°	7755.1	7866.7	8684.8	10112.1	7079.4	6403.6	6890.9	7021.0	8623.4	12331.0	7692.6
77.5°	5429.8	5512.7	6305.3	7433.7	5123.7	4578.9	4402.9	4557.4	5691.9	8920.3	3875.5
80°	3128.0	3158.8	3664.6	4292.3	3452.6	3950.2	3578.5	3685.1	3410.7	3968.7	1666.9
82.5°	2046.8	2051.9	2249.5	2554.7	2150.2	2498.3	1849.2	2364.2	2098.0	1594.3	542.7
85°	1105.8	1112.0	1304.4	1813.4	1217.4	688.0	404.5	830.4	1297.3	365.5	148.5
87.5°	121.8	111.6	393.2	659.4	337.9	62.4	21.5	93.2	207.8	23.6	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°	7251.4	7251.4	7251.4	7251.4	7251.4	7251.4	7251.4	7251.4	7251.4	7251.4	7251.4
2.5°	7754.1	7669.2	7457.1	7232.9	7052.7	6883.8	6713.8	6505.9	6345.2	6312.4	6259.2
5°	7588.2	7319.0	6874.5	6428.1	6068.8	5615.2	5327.4	5103.2	4884.1	4870.8	4826.7
7.5°	7008.7	6654.4	6028.8	5411.4	4905.5	4473.5	4037.3	3745.5	3516.1	3435.3	3387.1
10°	6451.7	6053.4	5272.1	4567.7	4116.1	3734.2	3427.1	3121.9	2845.4	2655.0	2569.0
12.5°	6062.6	5622.4	4761.2	4154.1	3830.4	3468.0	3093.2	2712.4	2393.9	2164.5	2024.3
15°	5912.1	5442.1	4590.2	3990.2	3590.8	3132.1	2653.0	2217.8	1864.6	1656.7	1530.7
17.5°	6091.3	5544.5	4576.9	3790.6	3232.5	2662.2	2132.8	1618.8	1286.0	1128.4	1047.4
20°	6545.9	5870.1	4571.8	3545.8	2806.6	2105.2	1444.7	1064.9	863.2	775.1	737.2
22.5°	7188.9	6285.8	4612.7	3304.2	2363.1	1504.2	997.3	782.3	678.8	631.8	610.3
25°	8016.2	6869.4	4728.4	3085.1	1946.5	1122.2	777.2	655.3	582.6	545.7	530.4
27.5°	8897.8	7541.2	4908.6	2894.6	1607.6	894.9	665.6	561.1	508.9	483.3	468.9
30°	9624.7	8319.3	5090.9	2682.7	1361.8	780.3	609.2	512.0	451.5	435.1	421.9
32.5°	10260.6	8908.0	5219.9	2491.1	1201.0	693.2	550.8	457.7	416.8	385.0	370.7
35°	10919.0	9398.5	5215.8	2357.1	1090.5	627.7	501.7	409.6	360.4	323.5	312.3
37.5°	11631.7	9952.5	5126.8	2242.3	1042.3	575.4	474.1	384.0	334.8	298.0	283.7
40°	12466.2	10534.0	5035.6	2134.8	1029.0	533.5	454.6	363.5	311.2	275.5	261.1
42.5°	13279.1	11058.3	4955.7	2055.0	971.7	532.5	437.2	348.1	292.9	258.0	241.6
45°	13929.3	11546.7	4940.4	2006.8	911.2	550.8	428.0	337.9	278.5	243.7	228.3
47.5°	14469.9	12077.0	5038.6	1973.1	853.9	502.8	450.5	330.7	265.2	231.4	214.0
50°	15113.0	12728.3	5270.0	1917.8	793.5	452.5	516.1	332.7	253.9	219.1	200.7
52.5°	16009.9	13629.3	5610.1	1824.6	710.6	406.5	507.9	334.8	241.6	205.8	187.3
55°	17015.4	14754.6	5975.6	1670.0	594.9	346.1	435.1	320.5	218.1	191.4	174.1
57.5°	18072.1	15775.5	6192.6	1485.7	473.0	299.0	348.1	291.9	192.5	172.1	160.8
60°	18237.9	16163.5	6093.3	1259.5	375.8	260.1	258.0	297.0	172.1	151.6	143.4
62.5°	17825.3	15676.1	5613.1	1057.7	314.3	228.3	211.9	259.1	155.7	135.2	127.0
65°	17031.8	14358.3	4834.9	953.3	291.9	195.5	176.2	182.2	136.2	117.7	110.6
67.5°	15928.0	12599.3	3969.7	893.9	288.8	168.0	150.5	138.2	117.7	102.4	96.2
70°	13671.3	10496.1	3167.0	861.1	280.6	141.3	127.0	112.6	98.3	87.0	81.9
72.5°	10062.0	7437.8	2463.6	825.3	282.6	112.6	110.6	93.2	78.8	67.5	65.5
75°	5813.8	4249.3	1615.8	668.6	269.3	87.0	92.1	65.5	55.3	47.1	47.1
77.5°	3098.3	2591.6	615.4	278.5	98.3	55.3	52.3	38.9	34.8	28.7	27.7
80°	1350.6	1140.7	185.3	77.8	54.3	29.7	19.5	17.4	15.4	12.3	11.3
82.5°	478.2	412.7	60.5	37.9	23.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	108.5	77.8	0.0	9.2	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°	7251.4	7251.4	7251.4	7251.4	7251.4	7251.4	7251.4	7251.4	7251.4	7251.4	7251.4
2.5°	6150.6	6128.1	5995.0	6000.1	6023.7	6057.5	5977.6	6014.4	6113.7	6209.0	6244.8
5°	4756.1	4761.2	4680.3	4730.5	4775.6	4806.2	4677.2	4679.3	4758.2	4865.7	4921.9
7.5°	3351.2	3343.0	3347.1	3466.9	3552.0	3490.5	3538.7	3371.7	3382.0	3458.7	3401.5
10°	2491.1	2378.5	2315.1	2405.2	2498.3	2464.6	2381.6	2327.4	2365.2	2450.2	2444.1
12.5°	1957.7	1795.9	1700.7	1636.2	1713.0	1649.5	1647.4	1600.4	1549.2	1558.4	1694.6
15°	1472.4	1354.7	1242.0	1138.6	1136.6	1115.1	1005.5	882.6	872.4	878.5	949.2
17.5°	1012.7	972.7	926.6	837.6	814.0	723.9	617.4	568.2	543.7	554.9	578.5
20°	711.6	696.2	701.4	653.3	619.5	533.5	471.0	451.5	447.4	458.7	470.0
22.5°	589.8	562.1	559.0	537.6	503.8	441.3	407.6	396.3	391.2	401.4	409.6
25°	516.1	488.4	477.1	463.8	428.0	385.0	364.5	354.3	349.1	355.3	360.4
27.5°	454.6	429.0	418.8	409.6	374.8	344.0	327.6	318.4	314.3	316.4	321.5
30°	408.6	386.0	372.7	361.4	331.7	310.2	296.0	286.7	282.6	282.6	287.8
32.5°	360.4	348.1	335.8	321.5	293.9	279.6	265.2	255.0	250.9	251.9	256.0
35°	300.1	296.0	299.0	285.7	262.1	249.8	235.5	224.2	221.1	222.2	226.3
37.5°	266.2	247.8	259.1	251.9	238.6	222.2	203.7	193.5	188.4	191.4	193.5
40°	244.7	222.2	214.0	221.1	219.1	192.5	176.2	165.9	161.8	162.8	164.9
42.5°	226.3	199.6	181.3	180.3	192.5	168.0	150.5	141.3	136.2	136.2	138.2
45°	208.9	180.3	157.7	140.3	161.8	142.3	125.9	117.7	111.6	111.6	112.6
47.5°	195.5	163.9	137.2	114.7	121.8	116.7	103.4	95.2	89.1	89.1	90.1
50°	183.2	147.5	118.8	96.2	91.1	96.2	83.9	74.7	70.6	69.6	71.6
52.5°	170.0	131.1	101.4	81.9	71.6	72.7	65.5	59.4	54.3	54.3	56.4
55°	156.7	117.7	88.0	69.6	59.4	54.3	52.3	48.2	44.1	44.1	46.1
57.5°	143.4	103.4	74.7	57.4	47.1	43.0	43.0	40.0	36.9	36.9	38.9
60°	131.1	89.1	61.4	47.1	36.9	35.9	36.9	33.8	31.8	31.8	33.8
62.5°	116.7	75.7	50.2	38.9	29.7	28.7	31.8	29.7	27.7	27.7	29.7
65°	99.3	64.5	40.0	29.7	22.5	22.5	26.6	24.6	22.5	22.5	24.6
67.5°	83.9	54.3	30.7	21.5	16.4	17.4	22.5	20.5	19.5	19.5	21.5
70°	69.6	42.0	21.5	13.3	9.2	13.3	17.4	17.4	17.4	17.4	19.5
72.5°	52.3	28.7	12.3	5.1	4.1	9.2	14.3	16.4	15.4	15.4	18.4
75°	33.8	16.4	4.1	0.0	0.0	5.1	11.3	13.3	13.3	12.3	15.4
77.5°	19.5	5.1	0.0	0.0	0.0	0.0	7.2	6.1	5.1	4.1	7.2
80°	5.1	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°	7251.4	7251.4	7251.4	7251.4	7251.4	7251.4	7251.4	7251.4	7251.4	7251.4
2.5°	6389.2	6510.0	6680.0	6860.2	7137.7	7357.8	7573.9	7759.2	7830.9	7860.6
5°	5057.1	5234.3	5483.1	5802.5	6303.2	6753.7	7210.4	7670.2	7869.8	7920.0
7.5°	3628.8	3855.0	4171.5	4571.8	5158.4	5742.2	6380.0	7054.8	7364.0	7441.9
10°	2685.7	2962.2	3324.7	3746.5	4306.5	4906.6	5601.9	6372.8	6726.1	6829.5
12.5°	1905.5	2279.2	2764.6	3277.6	3762.9	4298.3	5001.9	5851.7	6222.4	6334.0
15°	1119.2	1480.6	2055.0	2742.0	3363.5	3906.3	4620.9	5584.4	5992.9	6105.6
17.5°	642.0	822.2	1256.4	2022.2	2865.9	3617.5	4501.1	5651.0	6132.2	6236.6
20°	490.5	547.7	723.9	1302.4	2284.3	3333.8	4501.1	6027.8	6620.6	6774.2
22.5°	429.0	471.0	542.7	777.2	1681.3	3029.8	4553.3	6572.5	7347.6	7517.6
25°	380.9	418.8	480.2	584.6	1146.8	2668.3	4677.2	7241.1	8203.6	8423.7
27.5°	340.9	376.8	432.1	512.0	784.4	2232.2	4844.1	8025.5	9147.6	9323.8
30°	305.1	338.9	389.1	445.4	605.1	1737.6	4986.5	8764.7	9888.9	10078.4
32.5°	271.4	302.1	347.1	389.1	495.6	1285.0	5001.9	9350.4	10504.3	10692.8
35°	239.6	267.3	308.2	340.9	410.6	1014.7	4763.3	9858.3	11119.7	11368.5
37.5°	208.9	235.5	271.4	296.0	361.4	827.3	4398.8	10424.5	11909.2	12139.6
40°	180.3	203.7	240.6	257.0	342.0	635.9	4002.5	11018.3	12683.2	12894.1
42.5°	153.6	176.2	211.9	243.7	300.1	475.1	3574.4	11575.3	13379.4	13600.7
45°	128.0	151.6	187.3	258.0	248.8	355.3	3116.8	11945.0	13929.3	14170.0
47.5°	103.4	130.0	179.2	245.7	198.6	261.1	2754.3	12295.1	14346.0	14583.7
50°	82.9	109.5	201.7	219.1	162.8	199.6	2602.7	12608.5	14619.4	14847.8
52.5°	67.5	92.1	190.4	168.0	136.2	164.9	2684.7	13116.4	14872.3	15015.7
55°	56.4	72.7	114.7	116.7	115.7	140.3	2786.1	13845.4	15526.7	15594.2
57.5°	49.2	58.4	79.8	90.1	97.3	124.9	2788.1	14891.8	16539.3	16581.3
60°	42.0	51.2	66.5	72.7	83.9	111.6	2686.8	15257.4	16937.6	17076.9
62.5°	36.9	45.1	55.3	60.5	70.6	100.3	2449.2	14728.0	16390.9	16627.4
65°	32.8	41.0	46.1	51.2	62.4	90.1	2058.1	13669.3	15483.6	15730.4
67.5°	28.7	35.9	41.0	46.1	56.4	79.8	1515.3	12439.5	14442.3	14647.1
70°	25.6	31.8	36.9	41.0	49.2	67.5	919.4	10555.6	13002.7	13087.7
72.5°	24.6	28.7	33.8	36.9	43.0	59.4	465.9	7757.2	10394.8	10533.0
75°	21.5	25.6	30.7	32.8	37.9	51.2	189.4	5095.0	7533.0	7755.1
77.5°	17.4	23.6	27.7	29.7	32.8	42.0	96.2	3256.0	5286.4	5429.8
80°	6.1	17.4	23.6	24.6	27.7	30.7	63.4	1782.6	3066.7	3128.0
82.5°	0.0	11.3	18.4	17.4	19.5	23.6	41.0	847.8	2024.3	2046.8
85°	0.0	5.1	14.3	11.3	8.2	16.4	14.3	185.3	1061.8	1105.8
87.5°	0.0	0.0	1.0	5.1	4.1	6.1	2.0	1.0	96.2	121.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)