

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: P324093

Luminaire Tested: **GAN-SA9C-727-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324093
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-SA9C-727-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 39202 lumens
Efficiency: N/A
Efficacy: 78.2 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): 501
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

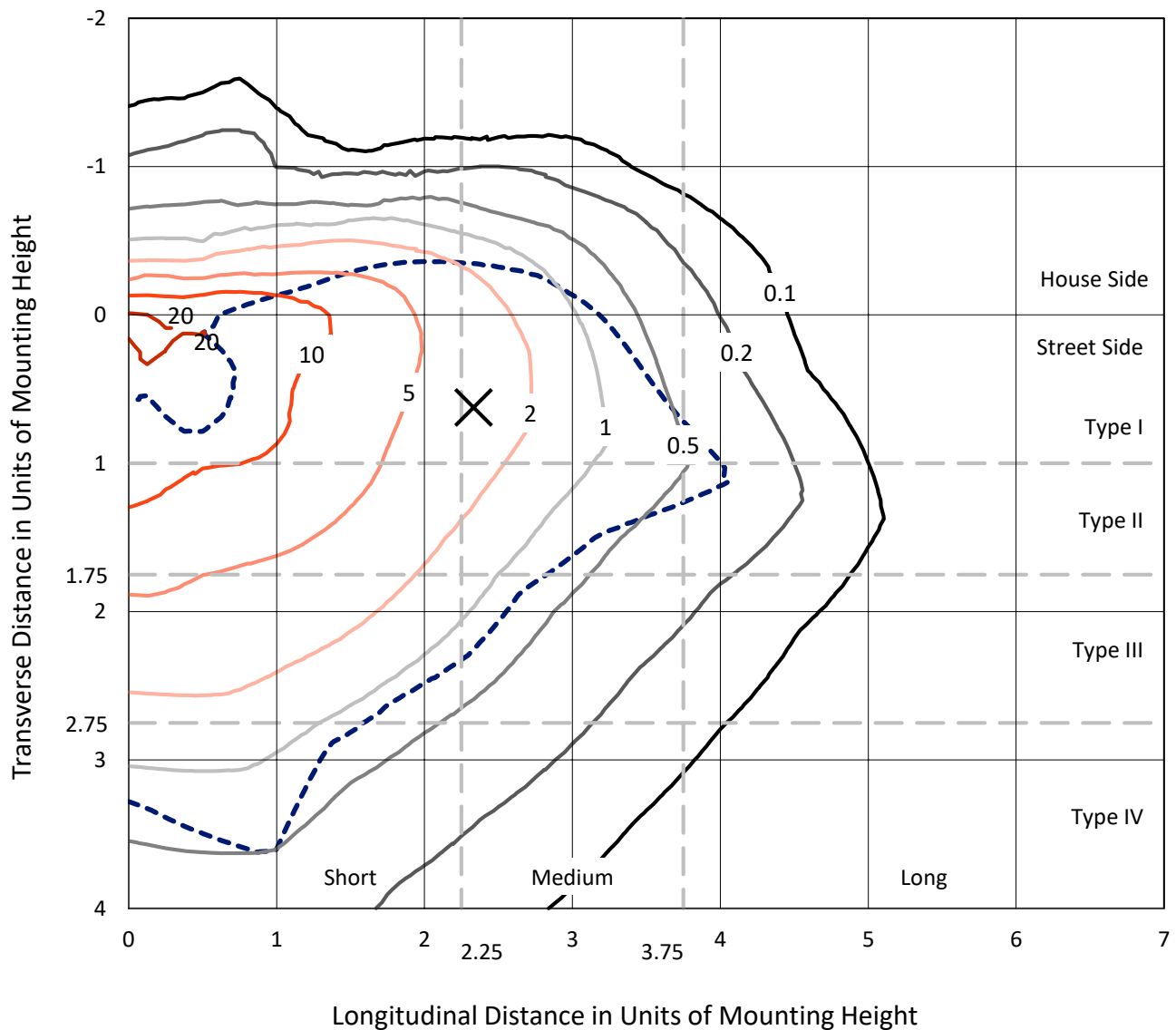


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Iso-Footcandle Lines of Horizontal Illumination

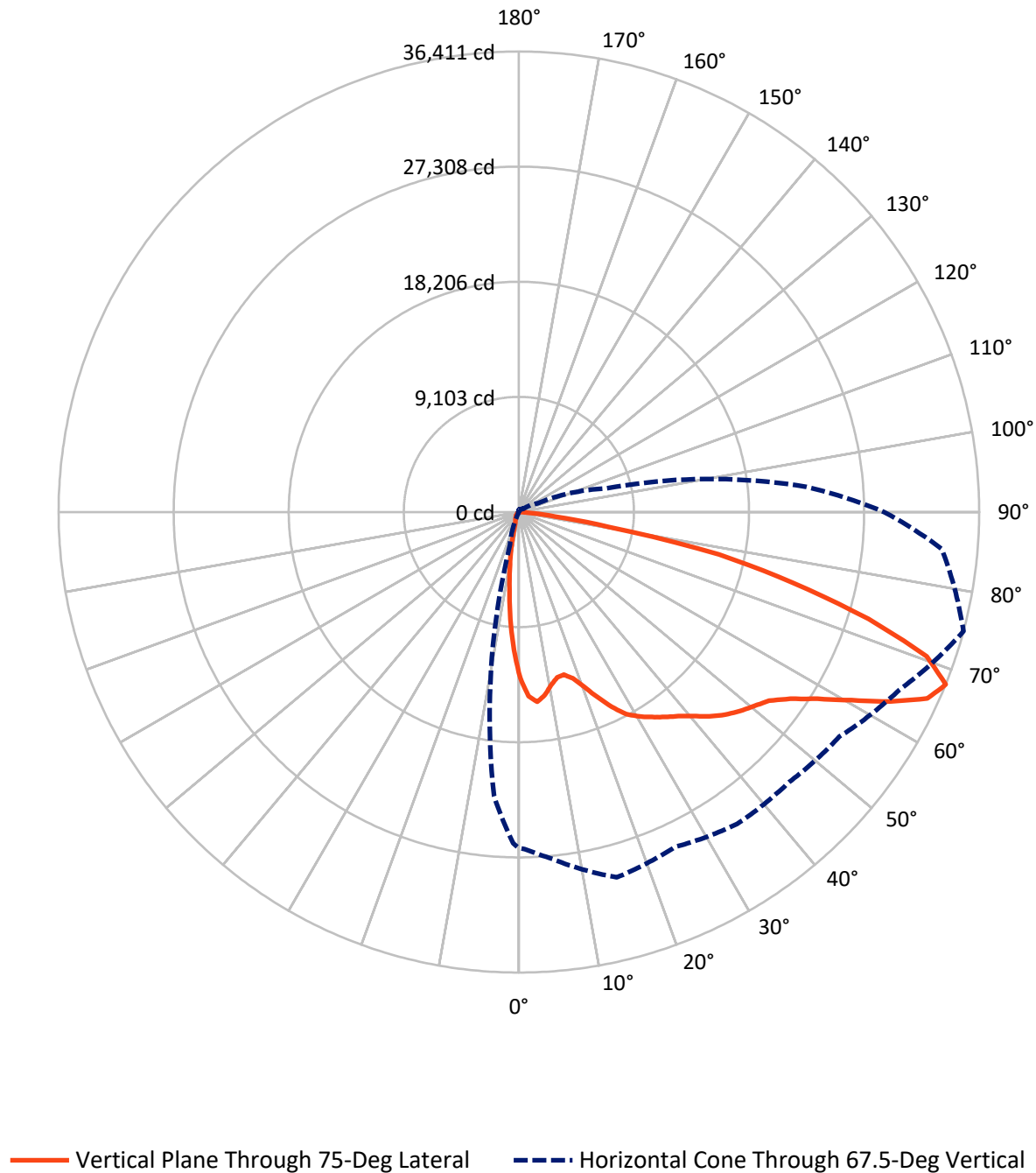
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 27.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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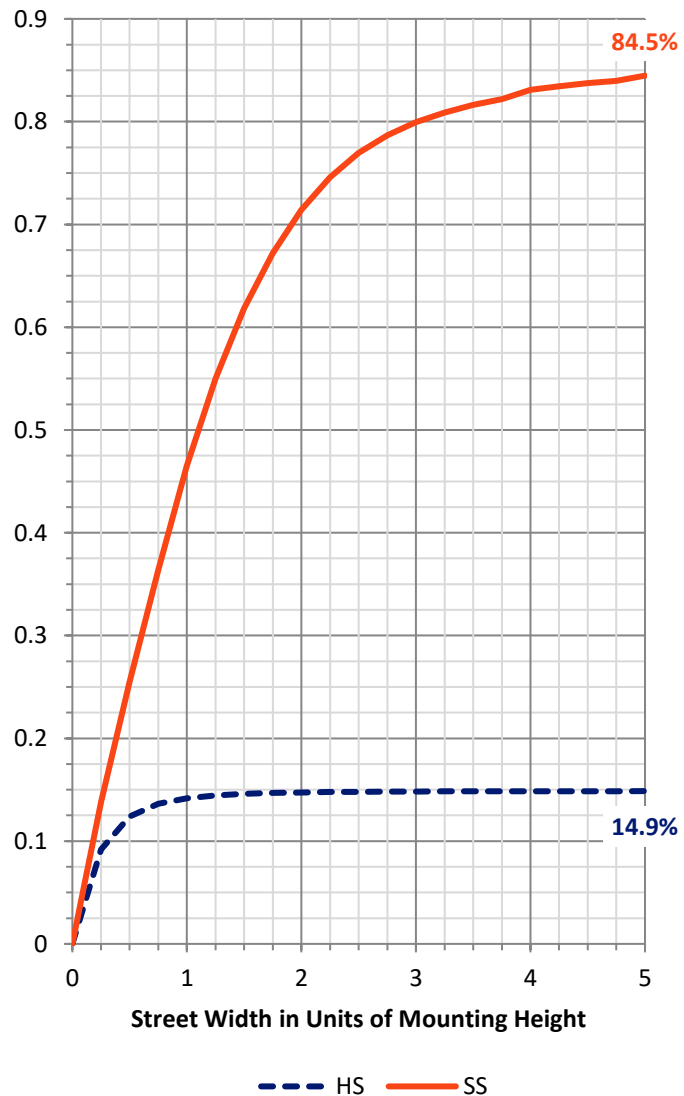
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5882.7	0.0	5882.7
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	33319.3	0.0	33319.3
	% Fixture	85.0	0.0	85.0
Total	Lumens	39202.0	0.0	39202.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	997.6	2.5
10°-20°	1964.3	5.0
20°-30°	2778.9	7.1
30°-40°	4085.8	10.4
40°-50°	5872.7	15.0
50°-60°	8267.2	21.1
60°-70°	9655.3	24.6
70°-80°	4925.8	12.6
80°-90°	654.4	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°	39202.0	100.0
0°-180°	39202.0	100.0

Coefficient of Utilization



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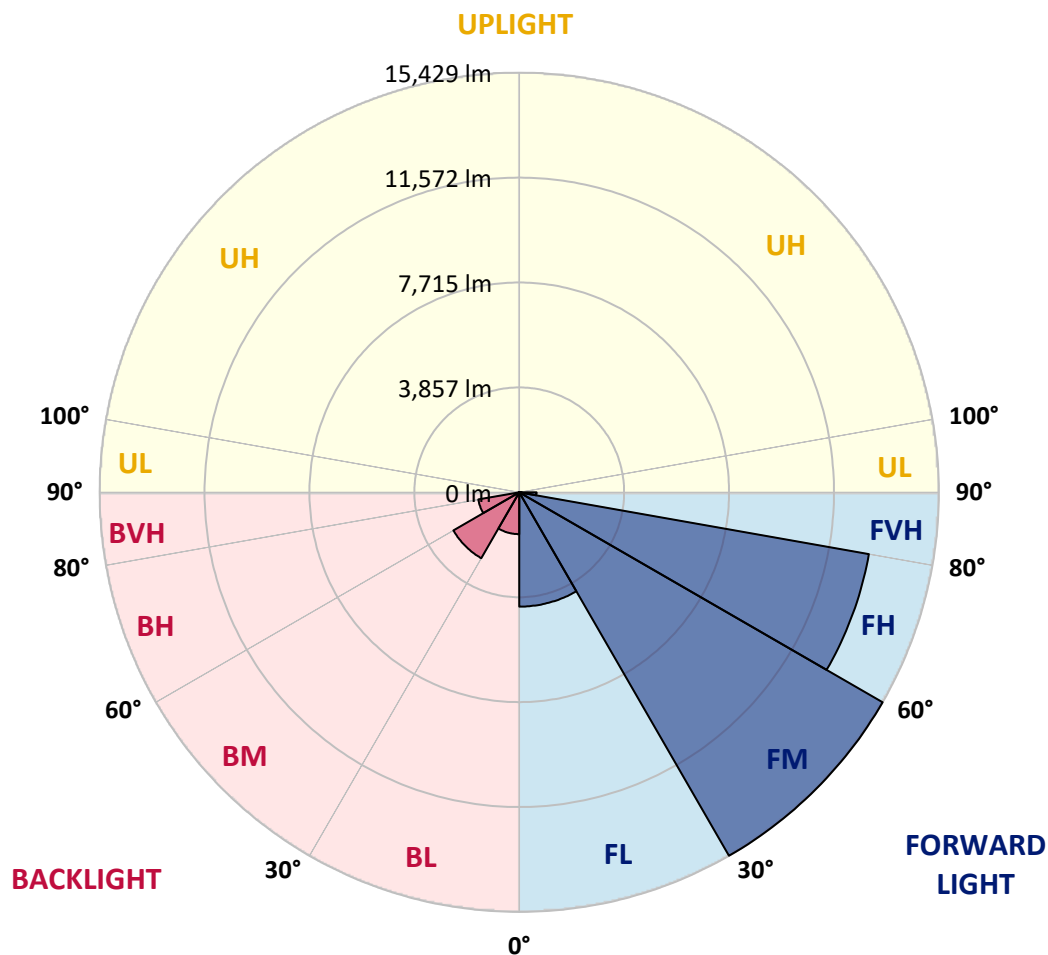
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4202.5	10.7			
FM	(30°-60°)	15429.2	39.4			
FH	(60°-80°)	13053.1	33.3			G5
FVH	(80°-90°)	634.5	1.6			G4/750
BL	(0°-30°)	1538.4	3.9	B3/2500		
BM	(30°-60°)	2796.4	7.1	B3/5000		
BH	(60°-80°)	1528.0	3.9	B3/2500		G3/2500
BVH	(80°-90°)	19.8	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°	13151.6	13151.6	13151.6	13151.6	13151.6	13151.6	13151.6	13151.6	13151.6	13151.6	13151.6
2.5°	14256.5	14278.8	14394.0	14661.4	14952.9	14975.2	15172.1	14969.6	14900.9	14574.1	14236.1
5°	14364.3	14449.7	14845.2	15630.8	16312.3	16531.4	16687.4	16290.0	15872.2	15073.6	14221.3
7.5°	13497.0	13640.0	14262.1	15736.6	16954.8	17493.4	17595.5	16973.4	15950.2	14635.4	13354.0
10°	12386.5	12549.9	13300.2	15112.6	16785.8	17708.8	17849.9	17034.7	15563.9	13926.0	12416.2
12.5°	11487.7	11679.0	12445.9	14410.7	16204.6	17226.0	17504.5	16828.6	15229.6	13422.7	11775.5
15°	11073.6	11292.7	12098.7	13957.6	15560.2	16364.3	16594.6	16303.0	15043.9	13342.9	11627.0
17.5°	11311.3	11549.0	12380.9	13996.6	14954.8	15298.3	15484.1	15602.9	15043.9	13823.9	12061.5
20°	12286.2	12542.5	13422.7	14392.1	14453.4	14325.3	14524.0	14941.8	15218.5	14737.5	13105.2
22.5°	13634.4	13935.3	14928.8	15069.9	14208.3	13723.6	13749.6	14405.1	15536.0	15896.3	14553.7
25°	15277.9	15645.6	16655.8	16080.2	14310.4	13365.2	13355.9	13963.1	15846.2	17057.0	16167.4
27.5°	16910.3	17315.1	18202.8	17313.2	14731.9	13300.2	13281.6	13829.4	16148.9	18089.5	17929.8
30°	18278.9	18672.6	19437.7	18206.5	15186.9	13452.4	13363.3	13972.4	16329.0	18759.9	19214.9
32.5°	19393.1	19708.8	20327.2	18821.2	15673.5	13747.7	13554.6	14355.0	16635.4	19326.3	20395.9
35°	20618.8	20951.2	21198.2	19406.1	16219.4	14173.0	13896.3	14962.2	17107.1	19902.0	21690.3
37.5°	22017.1	22347.7	22318.0	19941.0	16912.1	14876.8	14700.4	15924.2	17840.6	20472.1	23135.1
40°	23385.8	23723.8	23482.3	20525.9	17725.5	16037.5	15907.5	17369.0	18823.0	21201.9	24828.7
42.5°	24667.1	25033.0	24516.7	21079.3	18694.9	17500.8	17723.6	19229.7	20052.4	22100.7	26288.3
45°	25699.7	26072.9	25384.0	21617.9	19716.3	19276.1	19946.5	21291.0	21530.6	22860.2	27274.4
47.5°	26449.9	26802.7	25985.6	22156.4	21023.6	21447.0	22615.1	23452.6	22865.8	23519.5	27974.5
50°	26929.0	27203.9	26162.1	22830.5	22739.5	23980.0	25395.1	25803.7	24123.0	24113.7	28825.1
52.5°	27233.6	27358.0	26292.1	23534.3	24529.7	26737.7	28117.5	28245.7	25417.4	24767.4	29970.9
55°	28282.8	28383.1	27213.2	24386.7	26009.8	29153.8	30580.0	30461.1	26882.6	26046.9	31322.8
57.5°	30073.0	30178.9	29116.6	25612.4	27207.6	30646.8	32364.6	32578.2	28600.4	27844.5	32771.3
60°	30971.8	31168.7	30789.8	27164.9	28368.2	31601.4	33581.0	34262.5	30747.1	30214.1	34175.2
62.5°	30156.6	30442.6	30992.2	28886.4	29521.5	32126.9	33959.8	34866.0	32945.9	32975.6	35040.6
65°	28529.8	28758.2	29690.5	29829.7	30190.0	32061.9	33023.9	34022.9	34292.2	35512.3	34994.2
67.5°	26565.0	26650.5	27441.6	29904.0	29220.6	30108.3	30212.3	30951.4	33228.1	36411.1	33588.4
70°	23736.8	23783.2	24474.0	27417.4	25111.0	25306.0	25151.8	25302.3	28566.9	34221.6	30039.6
72.5°	19103.4	19220.4	20202.8	22769.2	18293.8	17731.1	18941.9	18875.0	22000.4	28912.4	22310.6
75°	14065.3	14267.7	15751.5	18340.2	12839.6	11614.0	12497.9	12733.8	15640.0	22364.4	13952.0
77.5°	9847.9	9998.3	11435.7	13482.2	9292.7	8304.7	7985.3	8265.7	10323.3	16178.6	7028.9
80°	5673.3	5729.0	6646.4	7784.7	6262.0	7164.5	6490.4	6683.5	6185.8	7197.9	3023.3
82.5°	3712.2	3721.5	4079.9	4633.3	3899.8	4531.2	3353.8	4287.9	3805.1	2891.4	984.2
85°	2005.6	2016.8	2365.9	3288.8	2208.0	1247.9	733.5	1506.1	2352.9	663.0	269.3
87.5°	221.0	202.4	713.1	1195.9	612.8	113.3	39.0	169.0	377.0	42.7	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°	13151.6	13151.6	13151.6	13151.6	13151.6	13151.6	13151.6	13151.6	13151.6	13151.6	13151.6
2.5°	14063.4	13909.3	13524.9	13118.2	12791.3	12484.9	12176.7	11799.7	11508.1	11448.7	11352.1
5°	13762.6	13274.2	12468.2	11658.5	11006.7	10184.0	9662.2	9255.5	8858.1	8834.0	8754.1
7.5°	12711.5	12068.9	10934.3	9814.5	8897.1	8113.4	7322.3	6793.1	6377.1	6230.4	6143.1
10°	11701.2	10978.9	9561.9	8284.3	7465.3	6772.6	6215.5	5662.1	5160.7	4815.3	4659.3
12.5°	10995.6	10197.0	8635.3	7534.0	6947.2	6289.8	5610.1	4919.3	4341.8	3925.8	3671.4
15°	10722.6	9870.2	8325.1	7236.9	6512.7	5680.7	4811.6	4022.4	3381.7	3004.7	2776.3
17.5°	11047.6	10055.9	8301.0	6874.8	5862.7	4828.3	3868.2	2936.0	2332.4	2046.5	1899.8
20°	11872.1	10646.4	8291.7	6431.0	5090.2	3818.1	2620.3	1931.3	1565.5	1405.8	1337.1
22.5°	13038.3	11400.4	8366.0	5992.7	4286.1	2728.0	1808.8	1418.8	1231.2	1145.8	1106.8
25°	14538.8	12458.9	8575.8	5595.3	3530.2	2035.3	1409.5	1188.5	1056.7	989.8	961.9
27.5°	16137.7	13677.1	8902.7	5249.9	2915.6	1623.1	1207.1	1017.7	923.0	876.5	850.5
30°	17456.2	15088.5	9233.2	4865.5	2469.9	1415.1	1104.9	928.5	819.0	789.2	765.1
32.5°	18609.5	16156.3	9467.2	4518.2	2178.3	1257.2	999.1	830.1	755.8	698.2	672.3
35°	19803.5	17045.8	9459.8	4274.9	1977.8	1138.4	910.0	742.8	653.7	586.8	566.4
37.5°	21096.0	18050.5	9298.2	4066.9	1890.5	1043.7	859.8	696.4	607.3	540.4	514.4
40°	22609.5	19105.3	9133.0	3871.9	1866.3	967.5	824.5	659.3	564.5	499.5	473.5
42.5°	24084.0	20056.1	8988.1	3727.1	1762.3	965.7	793.0	631.4	531.1	468.0	438.3
45°	25263.3	20941.9	8960.2	3639.8	1652.8	999.1	776.2	612.8	505.1	442.0	414.1
47.5°	26243.8	21903.9	9138.5	3578.5	1548.8	911.8	817.1	599.8	481.0	419.7	388.1
50°	27410.0	23084.9	9558.2	3478.2	1439.2	820.8	936.0	603.5	460.5	397.4	364.0
52.5°	29036.8	24719.1	10174.8	3309.3	1288.8	737.2	921.1	607.3	438.3	373.3	339.8
55°	30860.4	26760.0	10837.7	3028.8	1078.9	627.7	789.2	581.3	395.6	347.3	315.7
57.5°	32776.9	28611.5	11231.4	2694.6	858.0	542.3	631.4	529.3	349.1	312.0	291.6
60°	33077.7	29315.3	11051.3	2284.2	681.5	471.7	468.0	538.5	312.0	274.8	260.0
62.5°	32329.3	28431.4	10180.3	1918.3	570.1	414.1	384.4	469.8	282.3	245.1	230.3
65°	30890.1	26041.4	8769.0	1728.9	529.3	354.7	319.4	330.6	247.0	213.6	200.6
67.5°	28888.2	22851.0	7199.8	1621.2	523.7	304.6	273.0	250.7	213.6	185.7	174.6
70°	24795.3	19036.6	5743.8	1561.8	508.8	256.3	230.3	204.3	178.3	157.8	148.6
72.5°	18249.2	13489.6	4468.1	1496.8	512.5	204.3	200.6	169.0	143.0	122.6	118.9
75°	10544.3	7706.7	2930.4	1212.7	488.4	157.8	167.1	118.9	100.3	85.4	85.4
77.5°	5619.4	4700.2	1116.1	505.1	178.3	100.3	94.7	70.6	63.1	52.0	50.1
80°	2449.4	2068.7	336.1	141.1	98.4	53.9	35.3	31.6	27.9	22.3	20.4
82.5°	867.2	748.4	109.6	68.7	42.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	196.8	141.1	0.0	16.7	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°	13151.6	13151.6	13151.6	13151.6	13151.6	13151.6	13151.6	13151.6	13151.6	13151.6	13151.6
2.5°	11155.3	11114.4	10873.0	10882.3	10925.0	10986.3	10841.4	10908.3	11088.4	11261.1	11326.1
5°	8626.0	8635.3	8488.6	8579.6	8661.3	8717.0	8483.0	8486.7	8629.7	8824.7	8926.8
7.5°	6078.1	6063.3	6070.7	6288.0	6442.1	6330.7	6418.0	6115.3	6133.8	6273.1	6169.1
10°	4518.2	4313.9	4198.8	4362.2	4531.2	4469.9	4319.5	4221.1	4289.8	4443.9	4432.8
12.5°	3550.7	3257.3	3084.6	2967.6	3106.8	2991.7	2988.0	2902.6	2809.7	2826.4	3073.4
15°	2670.4	2456.9	2252.6	2065.0	2061.3	2022.3	1823.6	1600.8	1582.2	1593.3	1721.5
17.5°	1836.6	1764.2	1680.6	1519.1	1476.4	1312.9	1119.8	1030.7	986.1	1006.5	1049.2
20°	1290.6	1262.8	1272.1	1184.8	1123.5	967.5	854.2	819.0	811.5	832.0	852.4
22.5°	1069.7	1019.5	1013.9	974.9	913.7	800.4	739.1	718.7	709.4	728.0	742.8
25°	936.0	885.8	865.4	841.2	776.2	698.2	661.1	642.5	633.3	644.4	653.7
27.5°	824.5	778.1	759.5	742.8	679.7	624.0	594.3	577.5	570.1	573.8	583.1
30°	741.0	700.1	676.0	655.5	601.7	562.7	536.7	520.0	512.5	512.5	521.8
32.5°	653.7	631.4	609.1	583.1	533.0	507.0	481.0	462.4	455.0	456.8	464.3
35°	544.1	536.7	542.3	518.1	475.4	453.1	427.1	406.7	401.1	403.0	410.4
37.5°	482.8	449.4	469.8	456.8	432.7	403.0	369.6	351.0	341.7	347.3	351.0
40°	443.8	403.0	388.1	401.1	397.4	349.1	319.4	300.8	293.4	295.3	299.0
42.5°	410.4	362.1	328.7	326.8	349.1	304.6	273.0	256.3	247.0	247.0	250.7
45°	378.8	326.8	286.0	254.4	293.4	258.1	228.4	213.6	202.4	202.4	204.3
47.5°	354.7	297.1	248.8	208.0	221.0	211.7	187.6	172.7	161.6	161.6	163.4
50°	332.4	267.4	215.4	174.6	165.3	174.6	152.3	135.6	128.1	126.3	130.0
52.5°	308.3	237.7	183.8	148.6	130.0	131.9	118.9	107.7	98.4	98.4	102.1
55°	284.1	213.6	159.7	126.3	107.7	98.4	94.7	87.3	79.9	79.9	83.6
57.5°	260.0	187.6	135.6	104.0	85.4	78.0	78.0	72.4	66.9	66.9	70.6
60°	237.7	161.6	111.4	85.4	66.9	65.0	66.9	61.3	57.6	57.6	61.3
62.5°	211.7	137.4	91.0	70.6	53.9	52.0	57.6	53.9	50.1	50.1	53.9
65°	180.1	117.0	72.4	53.9	40.9	40.9	48.3	44.6	40.9	40.9	44.6
67.5°	152.3	98.4	55.7	39.0	29.7	31.6	40.9	37.1	35.3	35.3	39.0
70°	126.3	76.1	39.0	24.1	16.7	24.1	31.6	31.6	31.6	31.6	35.3
72.5°	94.7	52.0	22.3	9.3	7.4	16.7	26.0	29.7	27.9	27.9	33.4
75°	61.3	29.7	7.4	0.0	0.0	9.3	20.4	24.1	24.1	22.3	27.9
77.5°	35.3	9.3	0.0	0.0	0.0	0.0	13.0	11.1	9.3	7.4	13.0
80°	9.3	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°	13151.6	13151.6	13151.6	13151.6	13151.6	13151.6	13151.6	13151.6	13151.6	13151.6
2.5°	11588.0	11807.1	12115.4	12442.2	12945.5	13344.7	13736.6	14072.7	14202.7	14256.5
5°	9172.0	9493.2	9944.5	10523.9	11432.0	12249.1	13077.3	13911.1	14273.3	14364.3
7.5°	6581.4	6991.8	7565.6	8291.7	9355.8	10414.3	11571.3	12795.0	13355.9	13497.0
10°	4871.0	5372.4	6029.8	6794.9	7810.7	8899.0	10159.9	11558.3	12198.9	12386.5
12.5°	3456.0	4133.8	5014.0	5944.4	6824.6	7795.9	9071.7	10613.0	11285.3	11487.7
15°	2029.8	2685.3	3727.1	4973.2	6100.4	7084.6	8380.8	10128.3	10869.3	11073.6
17.5°	1164.4	1491.2	2278.6	3667.7	5197.9	6560.9	8163.6	10249.0	11121.8	11311.3
20°	889.5	993.5	1312.9	2362.2	4143.1	6046.5	8163.6	10932.4	12007.7	12286.2
22.5°	778.1	854.2	984.2	1409.5	3049.3	5495.0	8258.3	11920.4	13326.2	13634.4
25°	690.8	759.5	871.0	1060.4	2079.9	4839.5	8483.0	13133.0	14878.7	15277.9
27.5°	618.4	683.4	783.7	928.5	1422.5	4048.4	8785.7	14555.5	16590.8	16910.3
30°	553.4	614.7	705.7	807.8	1097.5	3151.4	9043.8	15896.3	17935.4	18278.9
32.5°	492.1	547.8	629.5	705.7	898.8	2330.6	9071.7	16958.5	19051.4	19393.1
35°	434.5	484.7	559.0	618.4	744.7	1840.3	8639.0	17879.6	20167.5	20618.8
37.5°	378.8	427.1	492.1	536.7	655.5	1500.5	7977.9	18906.6	21599.3	22017.1
40°	326.8	369.6	436.4	466.1	620.3	1153.2	7259.2	19983.7	23003.2	23385.8
42.5°	278.6	319.4	384.4	442.0	544.1	861.7	6482.9	20993.9	24266.0	24667.1
45°	232.1	274.8	339.8	468.0	451.3	644.4	5652.8	21664.3	25263.3	25699.7
47.5°	187.6	235.8	325.0	445.7	360.3	473.5	4995.5	22299.4	26019.1	26449.9
50°	150.4	198.7	365.8	397.4	295.3	362.1	4720.6	22867.7	26514.9	26929.0
52.5°	122.6	167.1	345.4	304.6	247.0	299.0	4869.2	23788.8	26973.6	27233.6
55°	102.1	131.9	208.0	211.7	209.8	254.4	5053.0	25111.0	28160.2	28282.8
57.5°	89.1	105.9	144.8	163.4	176.4	226.6	5056.7	27008.9	29996.9	30073.0
60°	76.1	92.9	120.7	131.9	152.3	202.4	4872.9	27671.8	30719.3	30971.8
62.5°	66.9	81.7	100.3	109.6	128.1	182.0	4442.1	26711.8	29727.6	30156.6
65°	59.4	74.3	83.6	92.9	113.3	163.4	3732.7	24791.6	28082.3	28529.8
67.5°	52.0	65.0	74.3	83.6	102.1	144.8	2748.4	22561.3	26193.6	26565.0
70°	46.4	57.6	66.9	74.3	89.1	122.6	1667.6	19144.3	23582.6	23736.8
72.5°	44.6	52.0	61.3	66.9	78.0	107.7	845.0	14069.0	18852.7	19103.4
75°	39.0	46.4	55.7	59.4	68.7	92.9	343.6	9240.7	13662.3	14065.3
77.5°	31.6	42.7	50.1	53.9	59.4	76.1	174.6	5905.4	9587.9	9847.9
80°	11.1	31.6	42.7	44.6	50.1	55.7	115.1	3233.1	5561.9	5673.3
82.5°	0.0	20.4	33.4	31.6	35.3	42.7	74.3	1537.6	3671.4	3712.2
85°	0.0	9.3	26.0	20.4	14.9	29.7	26.0	336.1	1925.8	2005.6
87.5°	0.0	0.0	1.9	9.3	7.4	11.1	3.7	1.9	174.6	221.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)