

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: P324471

Luminaire Tested: **GAN-SA7A-740-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324471
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-SA7A-740-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 615mA 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: 24435 lumens
Efficiency: N/A
Efficacy: 108.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G4

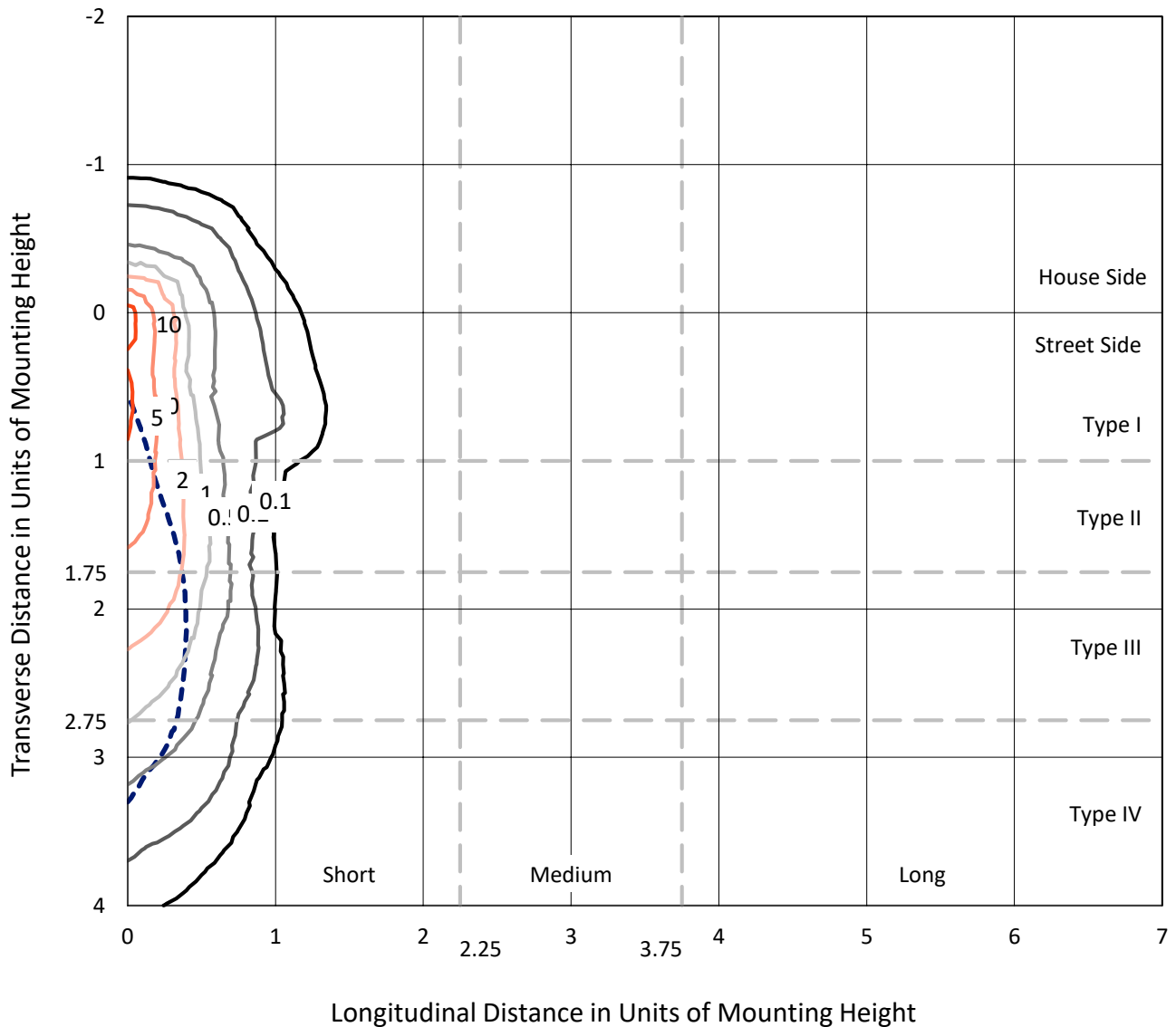
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

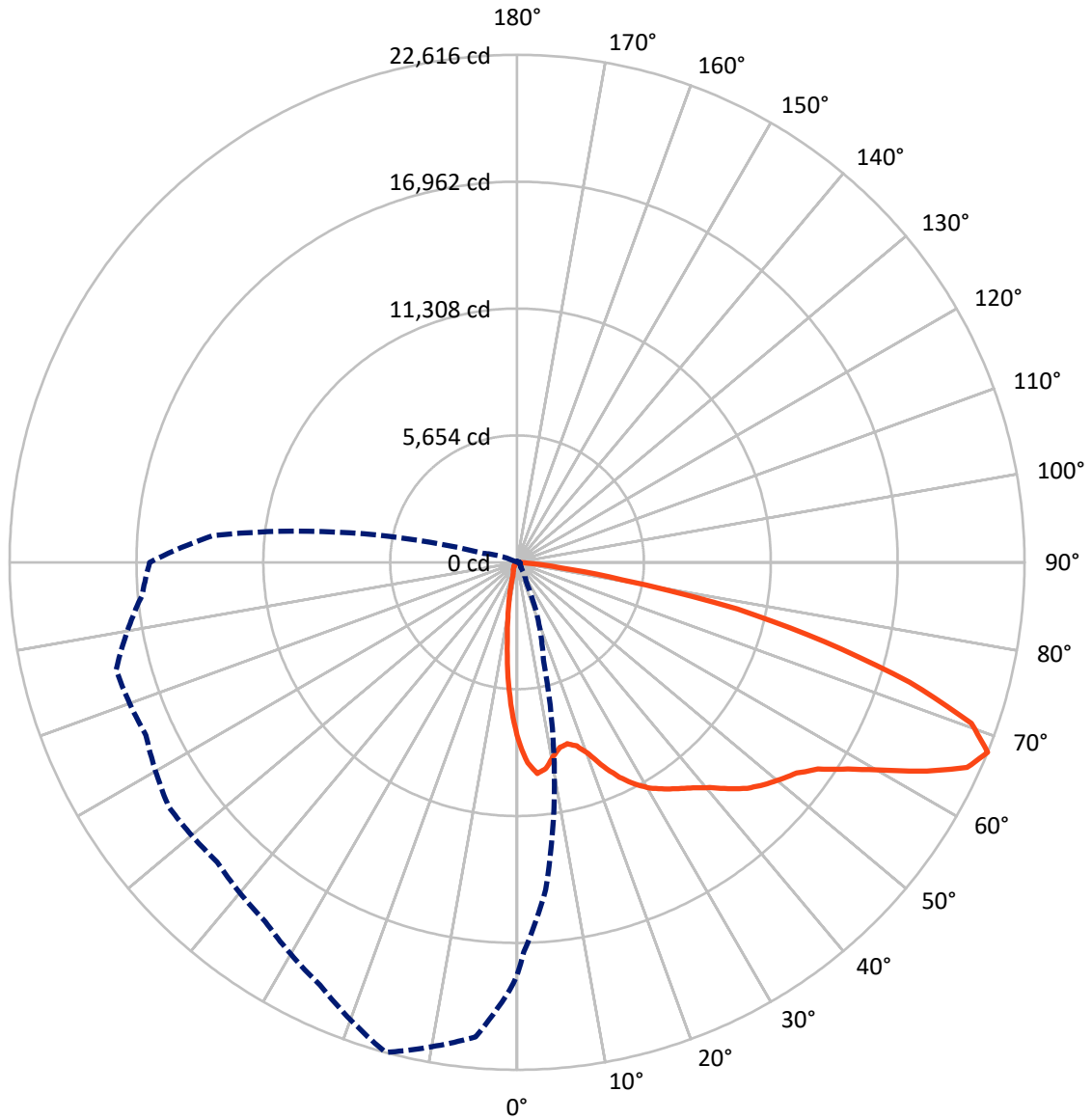
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 345-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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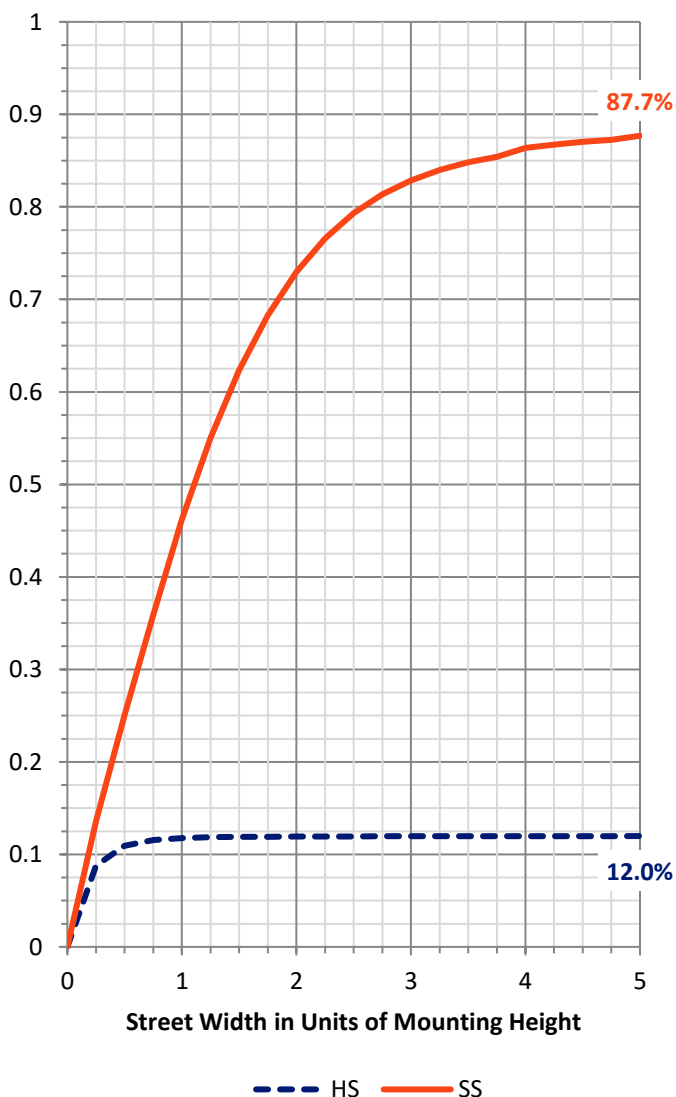
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2957.4	0.0	2957.4
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	21477.6	0.0	21477.6
	% Fixture	87.9	0.0	87.9
Total	Lumens	24435.0	0.0	24435.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	610.9	2.5
10°-20°	1216.0	5.0
20°-30°	1726.7	7.1
30°-40°	2550.4	10.4
40°-50°	3678.3	15.1
50°-60°	5163.5	21.1
60°-70°	6019.2	24.6
70°-80°	3077.1	12.6
80°-90°	393.0	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°	24435.0	100.0
0°-180°	24435.0	100.0

Coefficient of Utilization

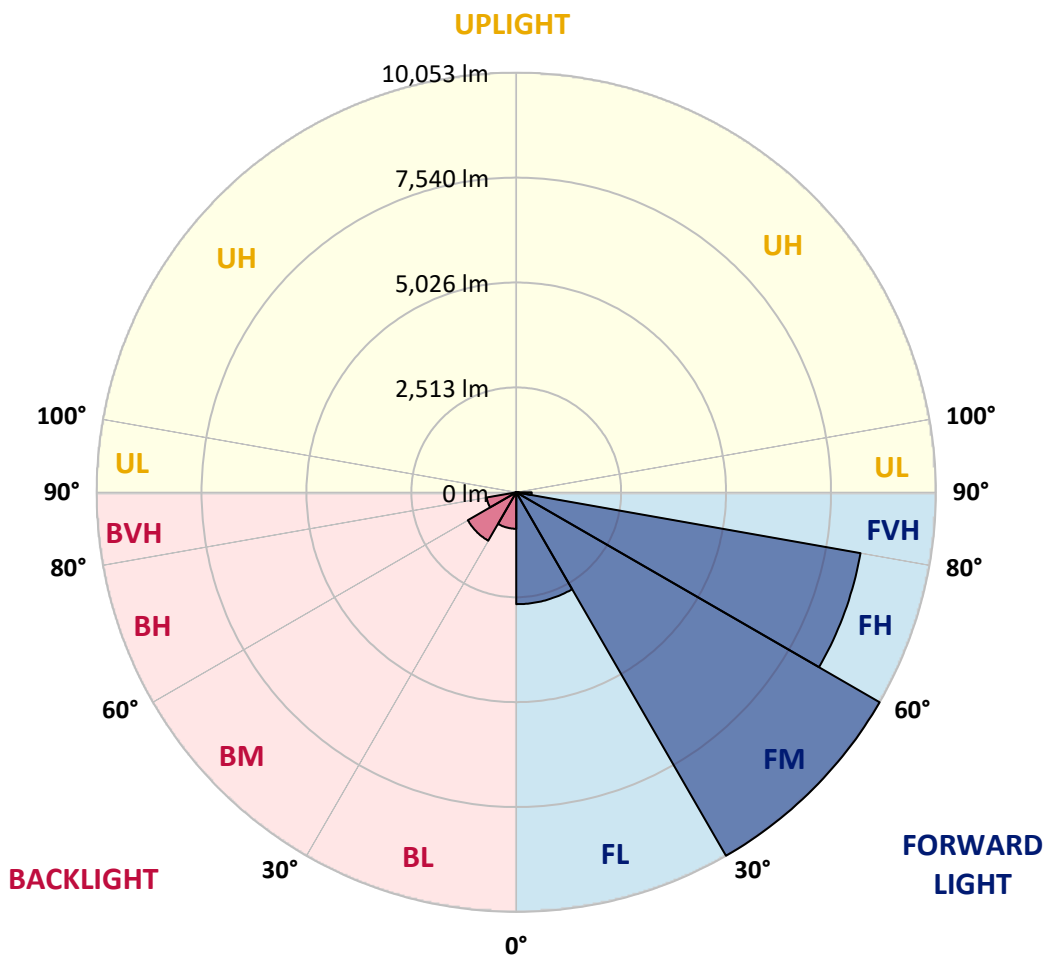


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2680.0	11.0			
FM (30°-60°)	10053.0	41.1			
FH (60°-80°)	8375.5	34.3			G4/12000
FVH (80°-90°)	369.1	1.5			G3/500
BL (0°-30°)	873.5	3.6	B2/1000		
BM (30°-60°)	1339.2	5.5	B2/2500		
BH (60°-80°)	720.8	2.9	B2/1000		G2/1000
BVH (80°-90°)	23.9	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-G4
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7959.7	7959.7	7959.7	7959.7	7959.7	7959.7	7959.7	7959.7	7959.7	7959.7	7959.7
2.5°	8715.6	8648.4	8574.3	8332.4	8107.8	7850.8	7641.3	7495.5	7312.6	7075.2	7015.1
5°	8653.1	8581.3	8348.6	7810.3	7339.2	6880.8	6438.6	6179.3	5857.5	5531.0	5450.0
7.5°	8024.5	7949.2	7613.5	6876.1	6241.8	5579.6	5005.5	4650.1	4286.6	3987.9	3829.3
10°	7370.4	7288.2	6910.9	6016.0	5234.7	4636.2	4214.8	3875.6	3531.8	3212.3	2957.7
12.5°	6920.1	6812.5	6402.7	5388.6	4708.0	4301.6	3908.1	3501.7	3036.4	2693.7	2413.6
15°	6731.4	6608.7	6175.8	5146.7	4521.6	4044.7	3531.8	3032.9	2487.7	2095.3	1838.3
17.5°	6877.3	6717.6	6253.4	5130.5	4287.7	3638.3	2990.1	2404.3	1812.8	1415.7	1232.8
20°	7372.8	7163.2	6574.0	5125.9	4004.1	3155.6	2333.7	1671.6	1194.6	960.8	864.7
22.5°	8153.0	7876.3	7034.7	5162.9	3711.3	2648.6	1685.5	1135.6	897.1	775.6	718.9
25°	9095.3	8774.6	7698.0	5293.7	3454.3	2155.5	1224.7	897.1	757.1	667.9	620.5
27.5°	9991.2	9730.8	8536.1	5482.4	3255.2	1757.2	994.4	760.5	647.1	588.1	549.9
30°	10886.1	10558.5	9396.2	5707.0	3015.5	1487.5	874.0	693.4	580.0	517.4	493.1
32.5°	11536.6	11264.6	10070.0	5869.0	2759.7	1311.6	781.4	634.4	541.8	478.1	442.2
35°	12301.8	11993.9	10647.6	5904.9	2595.3	1200.4	702.7	570.7	470.0	413.3	375.1
37.5°	13128.3	12745.2	11314.4	5826.2	2466.8	1146.0	643.6	541.8	438.7	380.9	340.3
40°	14042.8	13609.9	11954.5	5712.8	2340.7	1127.5	598.5	519.8	414.4	355.4	313.7
42.5°	15006.0	14495.5	12509.0	5593.5	2260.8	1063.8	593.8	497.8	395.9	332.2	290.6
45°	15815.1	15297.7	13078.6	5554.2	2204.1	994.4	613.5	482.7	383.2	313.7	273.2
47.5°	16459.9	15970.2	13662.0	5642.1	2171.7	930.7	559.1	502.4	376.2	297.5	258.1
50°	17229.7	16675.2	14483.9	5904.9	2124.2	867.0	505.9	575.3	376.2	287.1	245.4
52.5°	18195.2	17646.5	15400.7	6312.4	2029.3	779.1	454.9	576.5	379.7	273.2	229.2
55°	19409.5	19011.3	16710.0	6759.2	1877.6	649.4	393.6	495.5	365.8	247.7	214.2
57.5°	20574.0	20248.7	17903.4	7064.8	1675.0	507.0	342.6	399.4	334.5	217.6	191.0
59°	20892.4	20537.0	18341.0	7078.7	1523.4	442.2	317.2	329.9	327.6	203.7	177.1
60°	20892.4	20515.0	18467.2	7004.6	1413.4	406.3	301.0	294.0	341.5	194.5	169.0
62.5°	20513.8	19983.6	18057.4	6503.4	1153.0	346.1	262.8	243.1	306.8	174.8	149.3
65°	19726.7	18954.5	16661.3	5597.0	1027.9	317.2	226.9	199.1	213.0	154.0	130.8
67.5°	18413.9	17367.5	14648.3	4521.6	978.2	309.1	195.6	169.0	160.9	132.0	114.6
70°	16102.2	14941.1	12204.6	3555.0	935.3	305.6	164.4	142.4	129.7	111.1	97.2
72.5°	11719.5	10508.7	8664.6	2779.4	909.9	312.6	132.0	119.2	106.5	86.8	75.2
75°	6703.7	5910.7	4870.0	1836.0	775.6	298.7	101.9	99.6	76.4	62.5	52.1
77.5°	3463.5	3358.2	2918.3	705.0	371.6	130.8	67.1	57.9	45.1	38.2	31.3
80°	1494.5	1478.3	1279.1	203.7	98.4	72.9	38.2	24.3	20.8	16.2	12.7
82.5°	516.3	516.3	454.9	68.3	44.0	35.9	4.6	0.0	0.0	0.0	0.0
85°	104.2	116.9	82.2	0.0	15.0	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7959.7	7959.7	7959.7	7959.7	7959.7	7959.7	7959.7	7959.7	7959.7	7959.7	7959.7
2.5°	6942.1	6802.1	6792.8	6704.8	6594.8	6545.1	6516.1	6567.1	6629.6	6636.5	6730.3
5°	5388.6	5241.6	5303.0	5146.7	5177.9	5146.7	5095.8	5105.0	5132.8	5046.0	5153.6
7.5°	3784.2	3673.1	3743.7	3702.0	3757.6	3779.6	3748.3	3702.0	3565.4	3549.2	3643.0
10°	2852.3	2726.1	2650.9	2572.2	2589.6	2625.4	2613.9	2580.3	2493.5	2498.1	2588.4
12.5°	2292.0	2150.8	2001.5	1808.2	1760.7	1787.3	1760.7	1741.0	1657.7	1664.6	1744.5
15°	1738.7	1623.0	1466.7	1311.6	1227.1	1235.2	1161.1	1109.0	1056.9	994.4	1043.0
17.5°	1173.8	1103.2	1056.9	1010.6	909.9	886.7	793.0	692.2	652.9	623.9	644.8
20°	831.2	793.0	774.4	772.1	714.2	685.3	593.8	531.3	511.7	505.9	518.6
22.5°	694.6	666.8	640.2	625.1	596.2	562.6	493.1	461.9	448.0	441.0	450.3
25°	604.3	583.4	555.6	530.2	518.6	482.7	432.9	409.8	400.5	393.6	398.2
27.5°	537.1	518.6	486.2	470.0	460.7	429.5	386.6	368.1	360.0	357.7	356.5
30°	483.9	466.5	436.4	417.9	401.7	373.9	348.4	329.9	321.8	319.5	317.2
32.5°	430.6	416.7	397.1	378.5	361.2	335.7	313.7	298.7	285.9	283.6	282.5
35°	363.5	349.6	339.2	338.0	321.8	297.5	281.3	261.6	251.2	247.7	248.9
37.5°	323.0	304.4	281.3	289.4	284.8	267.4	245.4	225.7	215.3	213.0	213.0
40°	297.5	277.8	251.2	237.3	251.2	247.7	213.0	193.3	182.9	181.7	179.4
42.5°	273.2	253.5	223.4	200.3	207.2	217.6	184.1	165.5	155.1	152.8	149.3
45°	255.8	235.0	201.4	174.8	160.9	182.9	157.4	134.3	128.5	123.9	121.5
47.5°	239.6	219.9	181.7	151.6	128.5	132.0	126.2	110.0	103.0	98.4	97.2
50°	225.7	204.9	164.4	129.7	106.5	97.2	101.9	86.8	81.0	76.4	74.1
52.5°	209.5	189.8	145.9	112.3	89.1	76.4	77.6	68.3	62.5	59.0	57.9
55°	196.8	177.1	130.8	98.4	78.7	62.5	55.6	53.2	49.8	47.5	46.3
57.5°	179.4	160.9	115.8	83.3	67.1	50.9	42.8	42.8	41.7	39.4	38.2
59°	169.0	152.8	106.5	75.2	61.4	44.0	38.2	39.4	38.2	35.9	34.7
60°	160.9	145.9	99.6	69.5	57.9	40.5	34.7	37.0	35.9	33.6	32.4
62.5°	142.4	132.0	85.7	57.9	50.9	32.4	28.9	31.3	31.3	30.1	28.9
65°	125.0	113.4	72.9	48.6	47.5	27.8	23.2	27.8	28.9	26.6	24.3
67.5°	108.8	97.2	63.7	39.4	44.0	22.0	17.4	23.2	31.3	24.3	22.0
70°	92.6	81.0	49.8	31.3	46.3	15.0	13.9	20.8	37.0	26.6	20.8
72.5°	71.8	62.5	34.7	23.2	49.8	10.4	10.4	17.4	41.7	28.9	19.7
75°	49.8	40.5	20.8	13.9	40.5	6.9	6.9	16.2	39.4	26.6	18.5
77.5°	28.9	22.0	6.9	1.2	20.8	0.0	1.2	11.6	27.8	16.2	8.1
80°	10.4	4.6	0.0	0.0	12.7	0.0	0.0	0.0	2.3	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°	7959.7	7959.7	7959.7	7959.7	7959.7	7959.7	7959.7	7959.7	7959.7	7959.7	7959.7
2.5°	6754.6	6910.9	7050.9	7262.8	7514.0	7803.4	8052.3	8319.7	8570.9	8675.1	8746.8
5°	5175.6	5368.9	5594.7	5906.1	6320.5	6831.0	7309.1	7849.7	8430.8	8721.4	8994.6
7.5°	3659.2	3856.0	4136.1	4467.2	4968.4	5576.2	6201.3	6947.9	7735.1	8194.6	8647.3
10°	2631.2	2873.2	3134.8	3587.4	4096.7	4673.2	5316.9	6150.3	7027.8	7537.1	8082.4
12.5°	1790.8	2066.3	2462.2	2969.2	3567.7	4132.6	4691.8	5487.0	6505.7	7010.4	7595.0
15°	1074.3	1227.1	1646.1	2233.0	2966.9	3670.7	4283.1	5080.7	6166.5	6784.7	7392.4
17.5°	662.1	732.8	960.8	1442.4	2213.3	3103.5	3942.8	4943.0	6215.2	6967.6	7618.2
20°	527.9	555.6	628.6	852.0	1466.7	2478.4	3559.6	4915.2	6612.2	7538.3	8236.3
22.5°	458.4	485.0	533.7	619.3	922.6	1855.6	3196.1	4940.6	7181.7	8393.8	9208.7
25°	404.0	427.2	473.5	544.1	676.0	1306.9	2807.2	5054.1	7923.8	9455.3	10321.2
27.5°	361.2	380.9	423.7	488.5	580.0	912.2	2366.1	5191.8	8803.5	10541.1	11395.4
30°	321.8	339.2	377.4	437.6	503.6	701.5	1882.3	5285.6	9684.5	11395.4	12162.9
32.5°	288.2	301.0	335.7	386.6	437.6	559.1	1430.8	5270.6	10338.5	12106.2	12715.1
35°	253.5	266.2	296.3	340.3	380.9	461.9	1125.2	4989.3	10908.1	12843.6	13347.1
37.5°	215.3	231.5	260.5	299.8	327.6	406.3	909.9	4650.1	11485.7	13686.3	14052.1
40°	182.9	199.1	224.6	267.4	284.8	385.5	699.2	4236.8	12135.1	14628.6	14825.4
42.5°	151.6	166.7	193.3	230.4	268.6	332.2	517.4	3764.5	12759.1	15434.3	15530.4
45°	122.7	137.8	165.5	202.6	287.1	275.5	400.5	3258.6	13262.6	16104.5	16135.8
47.5°	97.2	111.1	140.1	191.0	267.4	219.9	285.9	2861.6	13685.1	16627.8	16545.6
50°	75.2	86.8	116.9	218.8	233.8	181.7	216.5	2729.6	14063.7	16951.9	16738.9
52.5°	59.0	69.5	96.1	204.9	181.7	150.5	181.7	2853.5	14582.3	17220.5	16847.7
55°	47.5	57.9	75.2	116.9	123.9	127.3	155.1	2969.2	15477.1	17850.2	17490.2
57.5°	39.4	49.8	61.4	82.2	93.8	107.7	137.8	2982.0	16531.7	18896.7	18556.3
59°	35.9	45.1	55.6	72.9	82.2	98.4	129.7	2912.5	16903.3	19277.5	19107.3
60°	33.6	42.8	52.1	67.1	76.4	92.6	125.0	2846.5	16919.5	19263.6	19342.3
62.5°	28.9	38.2	46.3	56.7	64.8	78.7	112.3	2602.3	16234.2	18632.7	19201.1
65°	25.5	33.6	41.7	48.6	55.6	70.6	101.9	2156.6	15063.8	17615.2	18234.5
67.5°	23.2	28.9	38.2	42.8	49.8	62.5	90.3	1537.3	13601.8	16370.8	16772.5
70°	20.8	27.8	34.7	39.4	45.1	54.4	77.6	883.2	11485.7	14548.7	14834.6
72.5°	19.7	26.6	31.3	37.0	40.5	48.6	70.6	415.6	8410.0	11654.7	12401.4
75°	17.4	24.3	28.9	34.7	38.2	44.0	60.2	199.1	5593.5	8434.3	9282.8
77.5°	10.4	19.7	26.6	31.3	33.6	38.2	49.8	114.6	3570.0	5837.8	6876.1
80°	0.0	6.9	19.7	26.6	28.9	32.4	38.2	90.3	1910.0	3335.0	4003.0
82.5°	0.0	0.0	13.9	20.8	19.7	22.0	28.9	56.7	861.3	2179.8	2456.4
85°	0.0	0.0	4.6	16.2	13.9	10.4	19.7	19.7	188.7	1103.2	1376.4
87.5°	0.0	0.0	0.0	1.2	6.9	4.6	8.1	2.3	1.2	82.2	333.4
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°	7959.7	7959.7	7959.7	7959.7	7959.7	7959.7	7959.7	7959.7	7959.7	7959.7
2.5°	8998.0	9083.7	9228.4	9296.7	9263.1	9120.7	8950.6	8776.9	8675.1	8715.6
5°	9551.4	9992.4	10247.1	10331.6	10190.4	9870.9	9453.0	8901.9	8706.3	8653.1
7.5°	9551.4	10381.4	10906.9	10999.5	10684.6	10058.4	9274.7	8414.6	8128.7	8024.5
10°	9215.7	10345.5	11078.2	11225.2	10785.4	9848.9	8798.9	7817.3	7478.1	7370.4
12.5°	8837.1	10053.8	10825.9	11028.5	10667.3	9640.5	8469.0	7413.3	7013.9	6920.1
15°	8604.4	9694.9	10333.9	10480.9	10328.1	9518.9	8390.3	7291.7	6821.7	6731.4
17.5°	8687.8	9417.1	9647.4	9733.1	9836.1	9476.1	8604.4	7558.0	6963.0	6877.3
20°	9001.5	9124.2	9005.0	9112.6	9390.4	9517.8	9114.9	8201.6	7487.4	7372.8
22.5°	9534.0	8972.6	8638.0	8680.8	9018.9	9655.5	9895.2	9120.7	8296.5	8153.0
25°	10154.5	9095.3	8434.3	8396.1	8743.4	9837.3	10608.2	10120.9	9253.9	9095.3
27.5°	10934.7	9370.8	8392.6	8354.4	8647.3	10007.4	11200.9	11109.5	10262.1	9991.2
30°	11536.6	9641.6	8516.5	8428.5	8743.4	10125.5	11676.7	11948.7	11065.5	10886.1
32.5°	11968.4	9961.1	8717.9	8590.5	9014.2	10329.3	12043.7	12717.4	11808.7	11536.6
35°	12297.2	10308.4	9043.2	8833.6	9387.0	10638.3	12387.5	13535.8	12599.3	12301.8
37.5°	12605.1	10795.8	9551.4	9301.3	9971.6	11136.1	12751.0	14464.2	13483.7	13128.3
40°	13034.6	11348.0	10335.1	10112.8	10954.4	11814.5	13204.7	15432.0	14489.7	14042.8
42.5°	13464.0	11940.6	11137.3	11197.5	12180.3	12638.7	13790.5	16455.3	15482.9	15006.0
45°	13856.5	12551.9	12279.8	12557.6	13318.2	13542.8	14372.8	17046.8	16275.9	15815.1
47.5°	14206.1	13315.9	13415.4	14155.1	14612.4	14361.2	14808.0	17557.3	16866.2	16459.9
50°	14612.4	14304.5	14912.2	15958.7	16102.2	15102.0	15203.9	18161.6	17556.2	17229.7
52.5°	15056.9	15346.3	16569.9	17492.5	17446.2	15906.6	15602.1	18838.8	18501.9	18195.2
55°	15561.6	16187.9	18029.6	18927.9	18888.6	16804.9	16262.0	19675.7	19687.3	19409.5
57.5°	16310.6	16912.5	19020.5	20089.0	20155.0	17842.1	17380.2	20613.4	20759.2	20574.0
59°	16847.7	17382.5	19412.9	20574.0	20842.6	18644.3	18197.5	21157.5	21061.4	20892.4
60°	17245.9	17681.2	19607.4	20827.5	21242.0	19188.4	18800.6	21476.9	21097.3	20892.4
62.5°	18231.0	18331.7	19958.2	21114.6	21701.5	20396.9	20497.6	22021.0	20848.4	20513.8
65°	18690.6	18742.7	19953.5	20600.6	21257.0	21338.0	22037.2	22037.2	20240.6	19726.7
67.5°	18498.4	18247.2	18963.8	18896.7	19551.9	20778.9	22616.0	21229.2	19078.4	18413.9
70°	16935.7	15969.1	15650.7	15679.7	16180.9	18073.6	21470.0	18851.5	16879.0	16102.2
72.5°	14091.5	11772.8	10986.8	11883.9	12014.7	13890.0	18297.0	14196.8	12447.7	11719.5
75°	11334.1	8298.8	7020.8	7967.8	8190.0	10164.9	14154.0	8841.7	7270.9	6703.7
77.5°	8142.6	5957.0	5037.9	4971.9	5259.0	6446.7	10043.3	4449.8	3711.3	3463.5
80°	4625.8	3920.8	4221.8	3983.3	4128.0	4030.8	4771.6	1951.7	1598.6	1494.5
82.5°	2792.1	2317.5	2509.7	2089.5	2644.0	2302.5	1838.3	625.1	542.9	516.3
85°	1816.3	1266.4	659.8	442.2	911.0	1471.3	410.9	170.2	130.8	104.2
87.5°	626.3	323.0	32.4	13.9	97.2	274.4	15.0	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

(END OF REPORT)