

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: P324111

Luminaire Tested: **GAN-SA7A-730-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324111
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-SA7A-730-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 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: 22255 lumens
Efficiency: N/A
Efficacy: 98.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

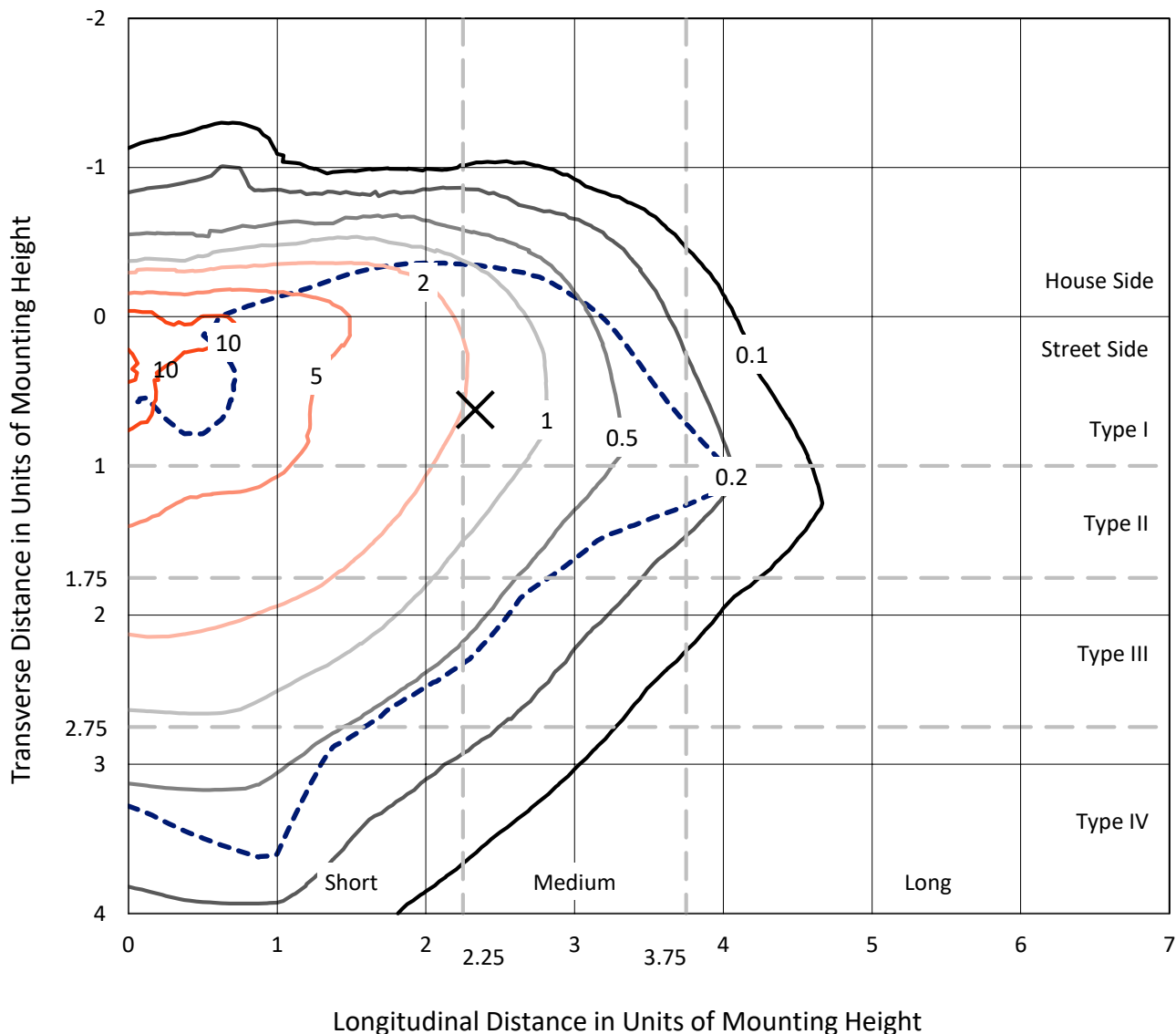
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

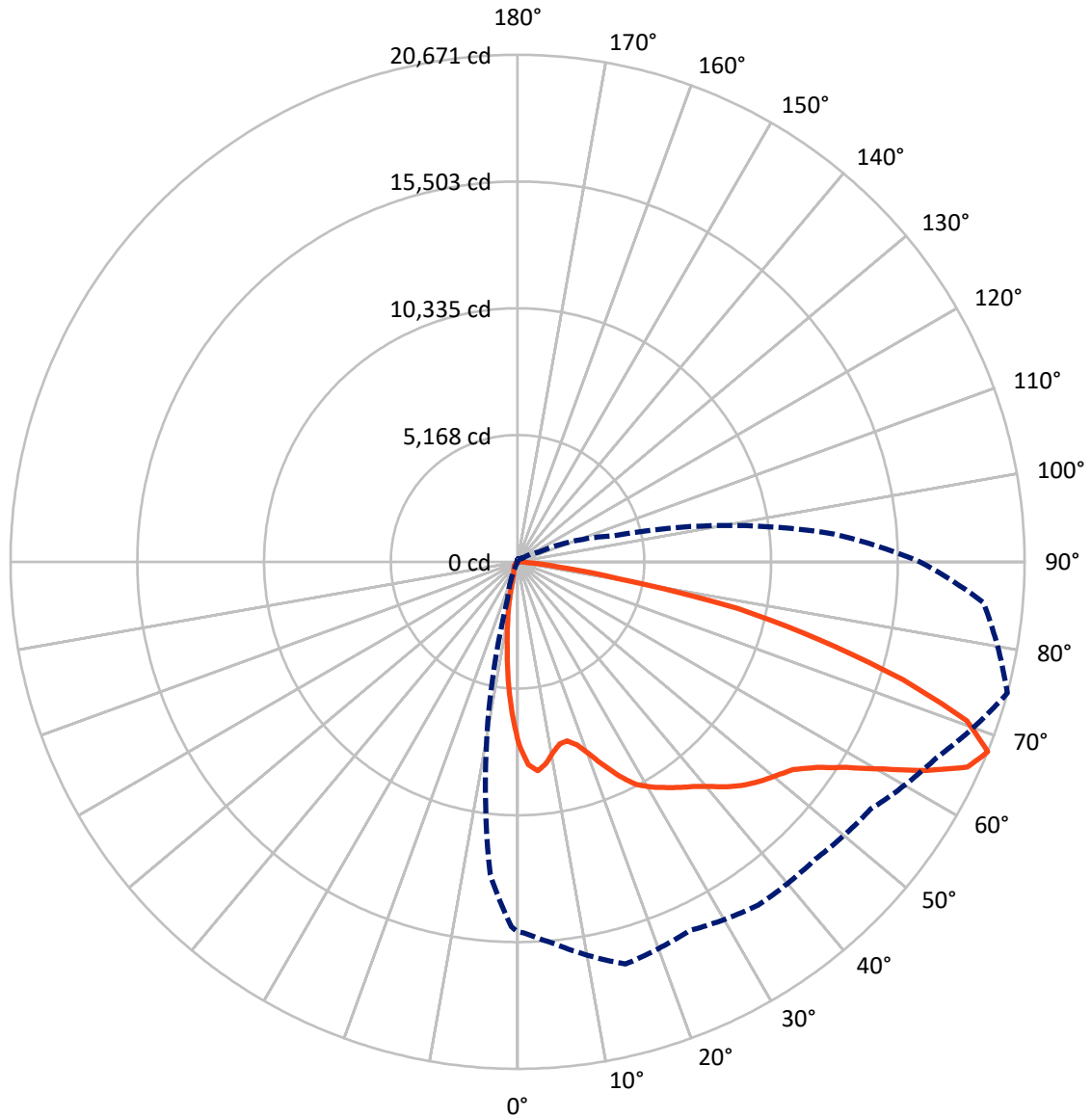
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.5 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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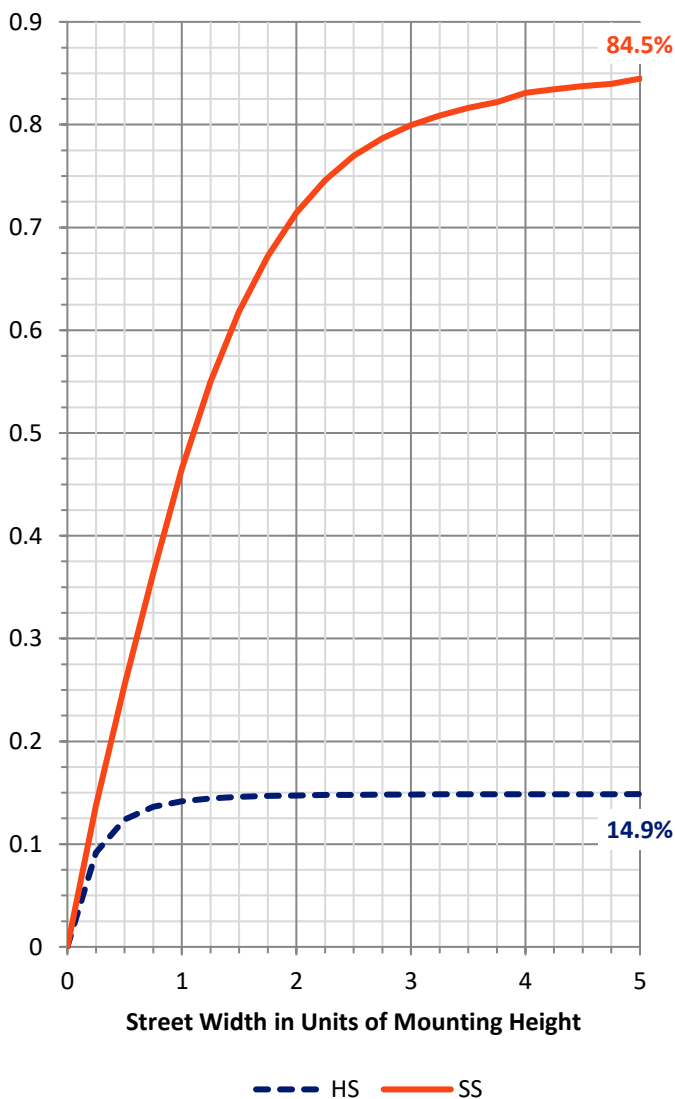
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3339.6	0.0	3339.6
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	18915.4	0.0	18915.4
	% Fixture	85.0	0.0	85.0
Total	Lumens	22255.0	0.0	22255.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	566.3	2.5
10°-20°	1115.1	5.0
20°-30°	1577.6	7.1
30°-40°	2319.5	10.4
40°-50°	3333.9	15.0
50°-60°	4693.3	21.1
60°-70°	5481.3	24.6
70°-80°	2796.4	12.6
80°-90°	371.5	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°	22255.0	100.0
0°-180°	22255.0	100.0

Coefficient of Utilization

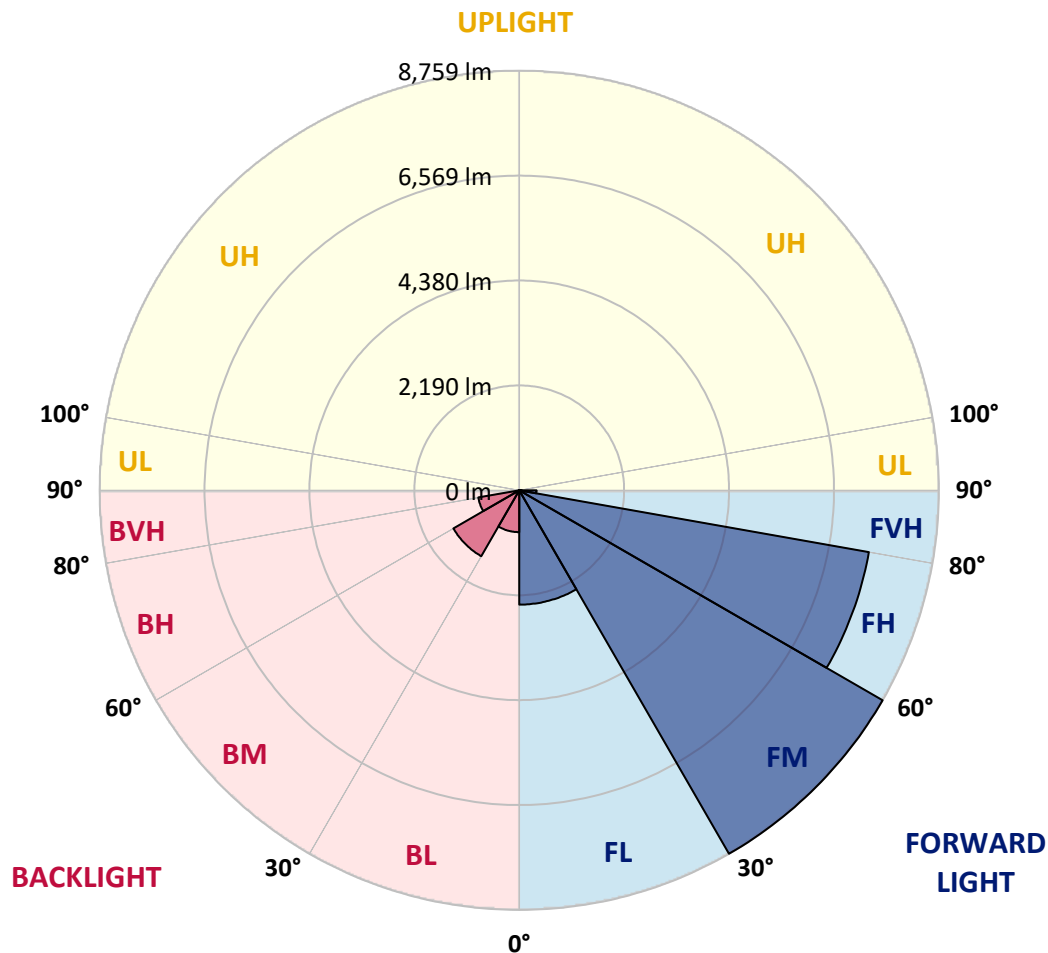


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2385.7	10.7			
FM (30°-60°)	8759.2	39.4			
FH (60°-80°)	7410.3	33.3			G3/7500
FVH (80°-90°)	360.2	1.6			G3/500
BL (0°-30°)	873.3	3.9	B2/1000		
BM (30°-60°)	1587.5	7.1	B2/2500		
BH (60°-80°)	867.4	3.9	B2/1000		G2/1000
BVH (80°-90°)	11.3	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°	7466.2	7466.2	7466.2	7466.2	7466.2	7466.2	7466.2	7466.2	7466.2	7466.2	7466.2
2.5°	8093.4	8106.1	8171.5	8323.3	8488.8	8501.4	8613.2	8498.3	8459.3	8273.7	8081.9
5°	8154.6	8203.1	8427.6	8873.6	9260.5	9384.9	9473.5	9247.8	9010.6	8557.3	8073.4
7.5°	7662.3	7743.4	8096.6	8933.7	9625.3	9931.0	9989.0	9635.8	9054.9	8308.5	7581.1
10°	7031.8	7124.6	7550.5	8579.5	9529.3	10053.3	10133.4	9670.6	8835.6	7905.8	7048.7
12.5°	6521.6	6630.2	7065.6	8181.0	9199.4	9779.2	9937.3	9553.6	8645.9	7620.1	6685.0
15°	6286.5	6410.9	6868.4	7923.7	8833.5	9290.0	9420.7	9255.2	8540.4	7574.8	6600.6
17.5°	6421.4	6556.4	7028.7	7945.9	8489.8	8684.9	8790.3	8857.8	8540.4	7847.8	6847.3
20°	6974.9	7120.4	7620.1	8170.4	8205.2	8132.5	8245.3	8482.5	8639.5	8366.5	7439.8
22.5°	7740.3	7911.1	8475.1	8555.2	8066.0	7790.9	7805.6	8177.8	8819.8	9024.3	8262.1
25°	8673.3	8882.0	9455.5	9128.7	8124.0	7587.4	7582.1	7926.9	8995.9	9683.3	9178.3
27.5°	9600.0	9829.8	10333.7	9828.7	8363.3	7550.5	7540.0	7851.0	9167.7	10269.4	10178.7
30°	10376.9	10600.4	11034.8	10335.8	8621.6	7637.0	7586.4	7932.1	9270.0	10650.0	10908.3
32.5°	11009.5	11188.7	11539.8	10684.8	8897.8	7804.6	7694.9	8149.3	9443.9	10971.5	11578.8
35°	11705.3	11894.0	12034.2	11016.9	9207.8	8046.0	7888.9	8494.1	9711.7	11298.4	12313.6
37.5°	12499.1	12686.8	12669.9	11320.5	9601.0	8445.6	8345.4	9040.2	10128.1	11622.0	13133.8
40°	13276.1	13468.0	13330.9	11652.6	10062.8	9104.5	9030.7	9860.4	10685.8	12036.3	14095.3
42.5°	14003.6	14211.2	13918.2	11966.7	10613.1	9935.2	10061.7	10916.7	11383.8	12546.6	14923.9
45°	14589.7	14801.6	14410.5	12272.5	11192.9	10943.1	11323.7	12086.9	12222.9	12977.8	15483.7
47.5°	15015.6	15215.9	14752.1	12578.2	11935.1	12175.5	12838.6	13314.1	12980.9	13352.0	15881.2
50°	15287.6	15443.7	14852.2	12960.9	12909.2	13613.5	14416.8	14648.8	13694.7	13689.4	16364.0
52.5°	15460.5	15531.2	14926.0	13360.5	13925.5	15179.0	15962.3	16035.1	14429.5	14060.5	17014.5
55°	16056.2	16113.1	15448.9	13844.4	14765.8	16550.6	17360.3	17292.8	15261.3	14786.9	17782.0
57.5°	17072.5	17132.6	16529.5	14540.2	15445.8	17398.2	18373.4	18494.6	16236.4	15807.4	18604.3
60°	17582.7	17694.5	17479.4	15421.5	16104.7	17940.1	19063.9	19450.8	17455.2	17152.6	19401.3
62.5°	17119.9	17282.3	17594.3	16398.8	16759.4	18238.5	19279.0	19793.5	18703.4	18720.3	19892.6
65°	16196.4	16326.1	16855.3	16934.4	17138.9	18201.6	18747.7	19314.8	19467.7	20160.4	19866.2
67.5°	15081.0	15129.5	15578.6	16976.5	16588.6	17092.5	17151.5	17571.1	18863.6	20670.6	19068.2
70°	13475.4	13501.7	13893.9	15564.9	14255.5	14366.2	14278.7	14364.1	16217.5	19427.6	17053.5
72.5°	10845.0	10911.4	11469.1	12926.1	10385.4	10065.9	10753.3	10715.4	12489.7	16413.6	12665.7
75°	7984.9	8099.8	8942.1	10411.7	7289.1	6593.3	7095.1	7229.0	8878.9	12696.3	7920.6
77.5°	5590.7	5676.1	6492.0	7653.8	5275.4	4714.6	4533.3	4692.5	5860.6	9184.6	3990.3
80°	3220.7	3252.3	3773.1	4419.4	3554.9	4067.3	3684.6	3794.2	3511.7	4086.3	1716.3
82.5°	2107.4	2112.7	2316.2	2630.3	2213.9	2572.4	1904.0	2434.3	2160.2	1641.5	558.8
85°	1138.6	1144.9	1343.1	1867.1	1253.5	708.5	416.4	855.0	1335.7	376.4	152.9
87.5°	125.5	114.9	404.8	678.9	347.9	64.3	22.1	95.9	214.0	24.2	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°	7466.2	7466.2	7466.2	7466.2	7466.2	7466.2	7466.2	7466.2	7466.2	7466.2	7466.2
2.5°	7983.8	7896.3	7678.1	7447.2	7261.6	7087.7	6912.7	6698.7	6533.2	6499.4	6444.6
5°	7813.0	7535.8	7078.2	6618.6	6248.5	5781.5	5485.2	5254.4	5028.8	5015.0	4969.7
7.5°	7216.3	6851.5	6207.4	5571.7	5050.9	4606.0	4156.9	3856.4	3620.3	3537.0	3487.4
10°	6642.8	6232.7	5428.3	4703.0	4238.1	3844.8	3528.6	3214.4	2929.8	2733.7	2645.1
12.5°	6242.2	5788.9	4902.2	4277.1	3943.9	3570.7	3184.9	2792.7	2464.8	2228.7	2084.2
15°	6087.2	5603.3	4726.2	4108.4	3697.2	3224.9	2731.6	2283.5	1919.8	1705.8	1576.1
17.5°	6271.7	5708.7	4712.5	3902.8	3328.3	2741.0	2196.0	1666.8	1324.1	1161.8	1078.5
20°	6739.8	6044.0	4707.2	3650.9	2889.7	2167.5	1487.5	1096.4	888.7	798.1	759.1
22.5°	7401.9	6472.0	4749.4	3402.1	2433.2	1548.7	1026.8	805.4	699.0	650.5	628.3
25°	8253.7	7072.9	4868.5	3176.4	2004.1	1155.5	800.2	674.7	599.9	561.9	546.1
27.5°	9161.4	7764.5	5054.1	2980.4	1655.2	921.4	685.3	577.7	524.0	497.6	482.8
30°	9909.9	8565.8	5241.7	2762.1	1402.1	803.3	627.3	527.1	464.9	448.1	434.3
32.5°	10564.6	9171.9	5374.5	2565.0	1236.6	713.7	567.2	471.2	429.1	396.4	381.6
35°	11242.5	9676.9	5370.3	2426.9	1122.8	646.3	516.6	421.7	371.1	333.1	321.5
37.5°	11976.2	10247.3	5278.6	2308.8	1073.2	592.5	488.1	395.3	344.7	306.8	292.0
40°	12835.4	10846.1	5184.8	2198.1	1059.5	549.3	468.1	374.3	320.5	283.6	268.8
42.5°	13672.5	11385.9	5102.6	2115.9	1000.5	548.2	450.2	358.4	301.5	265.7	248.8
45°	14342.0	11888.7	5086.7	2066.3	938.3	567.2	440.7	347.9	286.8	250.9	235.1
47.5°	14898.6	12434.8	5187.9	2031.5	879.2	517.6	463.9	340.5	273.0	238.3	220.3
50°	15560.7	13105.3	5426.2	1974.6	817.0	466.0	531.3	342.6	261.5	225.6	206.6
52.5°	16484.2	14033.1	5776.2	1878.7	731.6	418.5	522.9	344.7	248.8	211.9	192.9
55°	17519.5	15191.7	6152.6	1719.5	612.5	356.3	448.1	330.0	224.6	197.1	179.2
57.5°	18607.4	16242.8	6376.1	1529.7	487.1	307.8	358.4	300.5	198.2	177.1	165.5
60°	18778.2	16642.3	6273.8	1296.7	386.9	267.8	265.7	305.7	177.1	156.0	147.6
62.5°	18353.4	16140.5	5779.4	1089.0	323.7	235.1	218.2	266.7	160.2	139.2	130.7
65°	17536.3	14783.7	4978.2	981.5	300.5	201.4	181.3	187.7	140.2	121.2	113.9
67.5°	16399.9	12972.5	4087.3	920.4	297.3	172.9	155.0	142.3	121.2	105.4	99.1
70°	14076.3	10807.1	3260.8	886.6	288.9	145.5	130.7	116.0	101.2	89.6	84.3
72.5°	10360.1	7658.0	2536.5	849.7	291.0	116.0	113.9	95.9	81.2	69.6	67.5
75°	5986.0	4375.1	1663.6	688.4	277.3	89.6	94.9	67.5	56.9	48.5	48.5
77.5°	3190.1	2668.3	633.6	286.8	101.2	56.9	53.8	40.1	35.8	29.5	28.5
80°	1390.6	1174.4	190.8	80.1	55.9	30.6	20.0	17.9	15.8	12.7	11.6
82.5°	492.3	424.9	62.2	39.0	24.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	111.8	80.1	0.0	9.5	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°	7466.2	7466.2	7466.2	7466.2	7466.2	7466.2	7466.2	7466.2	7466.2	7466.2	7466.2
2.5°	6332.9	6309.7	6172.6	6177.9	6202.1	6236.9	6154.7	6192.6	6294.9	6392.9	6429.8
5°	4897.0	4902.2	4819.0	4870.6	4917.0	4948.6	4815.8	4817.9	4899.1	5009.8	5067.8
7.5°	3450.5	3442.1	3446.3	3569.7	3657.2	3593.9	3643.5	3471.6	3482.2	3561.2	3502.2
10°	2565.0	2449.0	2383.7	2476.4	2572.4	2537.6	2452.2	2396.3	2435.3	2522.8	2516.5
12.5°	2015.7	1849.1	1751.1	1684.7	1763.8	1698.4	1696.3	1647.8	1595.1	1604.6	1744.8
15°	1516.0	1394.8	1278.8	1172.3	1170.2	1148.1	1035.3	908.8	898.2	904.5	977.3
17.5°	1042.6	1001.5	954.1	862.4	838.1	745.4	635.7	585.1	559.8	571.4	595.6
20°	732.7	716.9	722.2	672.6	637.8	549.3	485.0	464.9	460.7	472.3	483.9
22.5°	607.2	578.8	575.6	553.5	518.7	454.4	419.6	408.0	402.7	413.3	421.7
25°	531.3	502.9	491.3	477.6	440.7	396.4	375.3	364.8	359.5	365.8	371.1
27.5°	468.1	441.7	431.2	421.7	385.9	354.2	337.4	327.9	323.7	325.8	331.0
30°	420.6	397.5	383.7	372.1	341.6	319.4	304.7	295.2	291.0	291.0	296.2
32.5°	371.1	358.4	345.8	331.0	302.6	287.8	273.0	262.5	258.3	259.3	263.6
35°	308.9	304.7	307.8	294.1	269.9	257.2	242.5	230.9	227.7	228.8	233.0
37.5°	274.1	255.1	266.7	259.3	245.6	228.8	209.8	199.3	194.0	197.1	199.3
40°	252.0	228.8	220.3	227.7	225.6	198.2	181.3	170.8	166.6	167.6	169.7
42.5°	233.0	205.6	186.6	185.5	198.2	172.9	155.0	145.5	140.2	140.2	142.3
45°	215.1	185.5	162.4	144.4	166.6	146.5	129.7	121.2	114.9	114.9	116.0
47.5°	201.4	168.7	141.3	118.1	125.5	120.2	106.5	98.0	91.7	91.7	92.8
50°	188.7	151.8	122.3	99.1	93.8	99.1	86.4	77.0	72.7	71.7	73.8
52.5°	175.0	134.9	104.4	84.3	73.8	74.9	67.5	61.1	55.9	55.9	58.0
55°	161.3	121.2	90.7	71.7	61.1	55.9	53.8	49.5	45.3	45.3	47.4
57.5°	147.6	106.5	77.0	59.0	48.5	44.3	44.3	41.1	38.0	38.0	40.1
60°	134.9	91.7	63.3	48.5	38.0	36.9	38.0	34.8	32.7	32.7	34.8
62.5°	120.2	78.0	51.7	40.1	30.6	29.5	32.7	30.6	28.5	28.5	30.6
65°	102.3	66.4	41.1	30.6	23.2	23.2	27.4	25.3	23.2	23.2	25.3
67.5°	86.4	55.9	31.6	22.1	16.9	17.9	23.2	21.1	20.0	20.0	22.1
70°	71.7	43.2	22.1	13.7	9.5	13.7	17.9	17.9	17.9	17.9	20.0
72.5°	53.8	29.5	12.7	5.3	4.2	9.5	14.8	16.9	15.8	15.8	19.0
75°	34.8	16.9	4.2	0.0	0.0	5.3	11.6	13.7	13.7	12.7	15.8
77.5°	20.0	5.3	0.0	0.0	0.0	0.0	7.4	6.3	5.3	4.2	7.4
80°	5.3	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°	7466.2	7466.2	7466.2	7466.2	7466.2	7466.2	7466.2	7466.2	7466.2	7466.2
2.5°	6578.5	6702.9	6877.9	7063.4	7349.2	7575.8	7798.3	7989.1	8062.9	8093.4
5°	5206.9	5389.3	5645.5	5974.4	6489.9	6953.8	7424.0	7897.4	8102.9	8154.6
7.5°	3736.2	3969.2	4295.0	4707.2	5311.3	5912.2	6569.0	7263.8	7582.1	7662.3
10°	2765.3	3049.9	3423.1	3857.5	4434.2	5051.9	5767.8	6561.6	6925.3	7031.8
12.5°	1962.0	2346.8	2846.5	3374.6	3874.4	4425.7	5150.0	6025.0	6406.7	6521.6
15°	1152.3	1524.4	2115.9	2823.3	3463.2	4021.9	4757.8	5749.9	6170.5	6286.5
17.5°	661.0	846.6	1293.6	2082.1	2950.8	3724.7	4634.5	5818.4	6313.9	6421.4
20°	505.0	564.0	745.4	1341.0	2352.0	3432.6	4634.5	6206.3	6816.8	6974.9
22.5°	441.7	485.0	558.8	800.2	1731.1	3119.5	4688.2	6767.2	7565.3	7740.3
25°	392.2	431.2	494.4	602.0	1180.8	2747.4	4815.8	7455.6	8446.6	8673.3
27.5°	351.1	388.0	444.9	527.1	807.6	2298.3	4987.6	8263.2	9418.6	9600.0
30°	314.2	349.0	400.6	458.6	623.1	1789.1	5134.2	9024.3	10181.9	10376.9
32.5°	279.4	311.0	357.4	400.6	510.3	1323.1	5150.0	9627.4	10815.5	11009.5
35°	246.7	275.2	317.3	351.1	422.8	1044.8	4904.4	10150.3	11449.1	11705.3
37.5°	215.1	242.5	279.4	304.7	372.1	851.8	4529.0	10733.3	12261.9	12499.1
40°	185.5	209.8	247.7	264.6	352.1	654.7	4121.0	11344.7	13058.9	13276.1
42.5°	158.1	181.3	218.2	250.9	308.9	489.2	3680.4	11918.3	13775.8	14003.6
45°	131.8	156.0	192.9	265.7	256.2	365.8	3209.1	12298.8	14342.0	14589.7
47.5°	106.5	133.9	184.5	253.0	204.5	268.8	2835.9	12659.4	14771.0	15015.6
50°	85.4	112.8	207.7	225.6	167.6	205.6	2679.9	12982.0	15052.5	15287.6
52.5°	69.6	94.9	196.1	172.9	140.2	169.7	2764.2	13504.9	15312.9	15460.5
55°	58.0	74.9	118.1	120.2	119.1	144.4	2868.6	14255.5	15986.6	16056.2
57.5°	50.6	60.1	82.2	92.8	100.2	128.6	2870.7	15333.0	17029.2	17072.5
60°	43.2	52.7	68.5	74.9	86.4	114.9	2766.3	15709.3	17439.3	17582.7
62.5°	38.0	46.4	56.9	62.2	72.7	103.3	2521.8	15164.3	16876.4	17119.9
65°	33.7	42.2	47.4	52.7	64.3	92.8	2119.0	14074.2	15942.3	16196.4
67.5°	29.5	36.9	42.2	47.4	58.0	82.2	1560.3	12808.0	14870.1	15081.0
70°	26.4	32.7	38.0	42.2	50.6	69.6	946.7	10868.2	13387.9	13475.4
72.5°	25.3	29.5	34.8	38.0	44.3	61.1	479.7	7987.0	10702.7	10845.0
75°	22.1	26.4	31.6	33.7	39.0	52.7	195.0	5245.9	7756.1	7984.9
77.5°	17.9	24.2	28.5	30.6	33.7	43.2	99.1	3352.5	5443.1	5590.7
80°	6.3	17.9	24.2	25.3	28.5	31.6	65.4	1835.4	3157.5	3220.7
82.5°	0.0	11.6	19.0	17.9	20.0	24.2	42.2	872.9	2084.2	2107.4
85°	0.0	5.3	14.8	11.6	8.4	16.9	14.8	190.8	1093.3	1138.6
87.5°	0.0	0.0	1.1	5.3	4.2	6.3	2.1	1.1	99.1	125.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)