

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: P324521

Luminaire Tested: **GAN-SA7B-750-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324521
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-SA7B-750-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5000K, 800mA 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: 29963 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

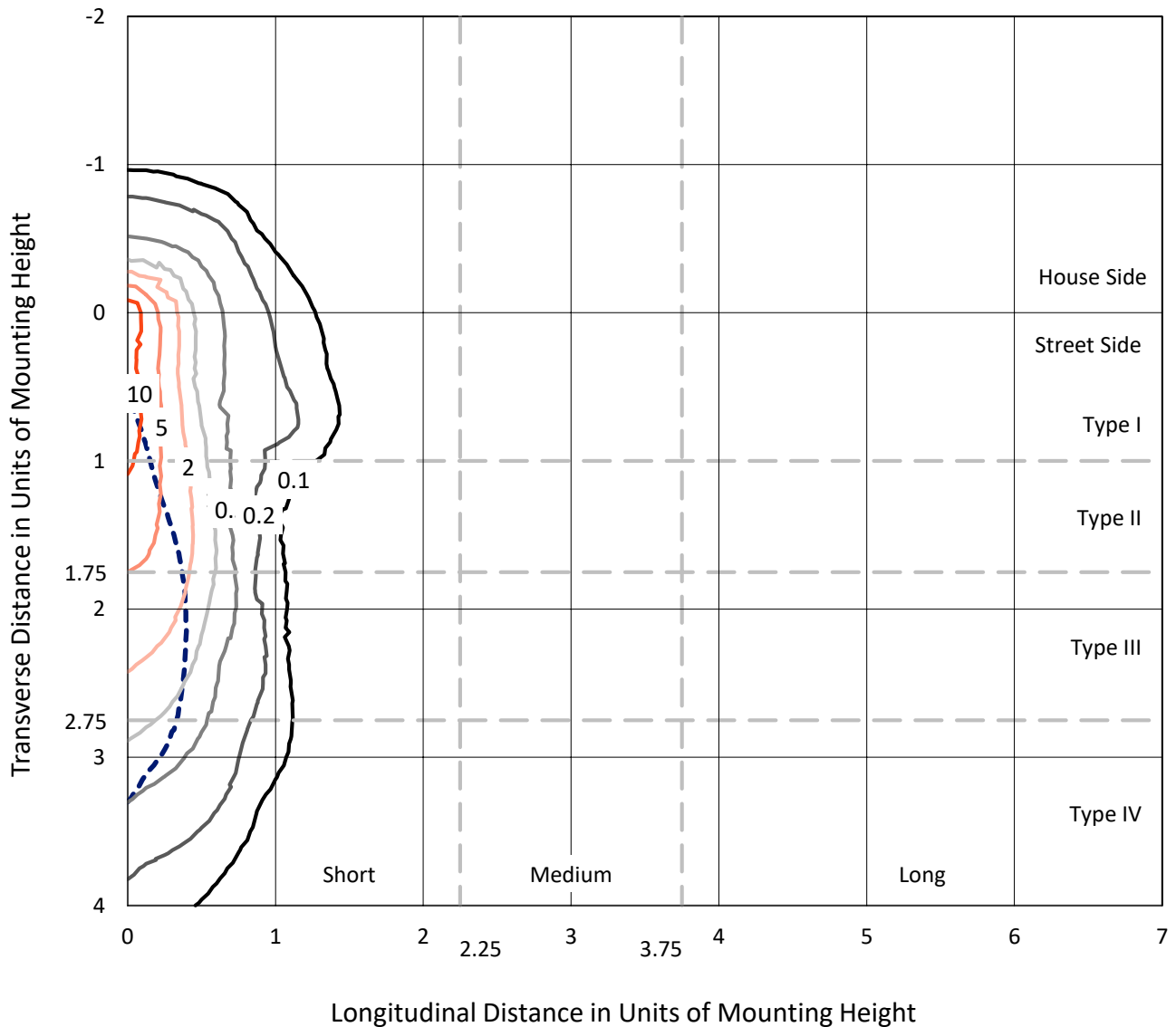
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

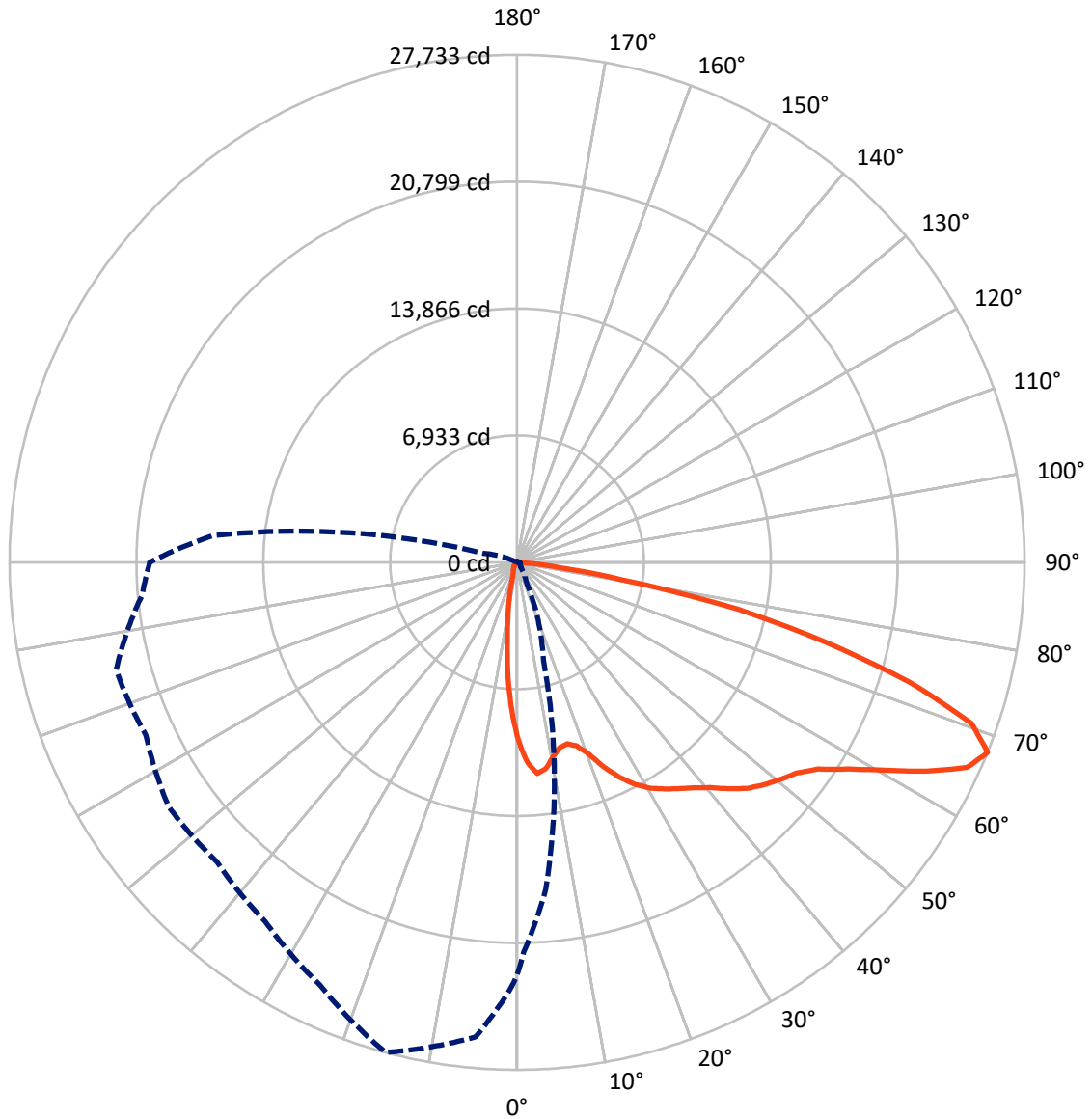
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.6 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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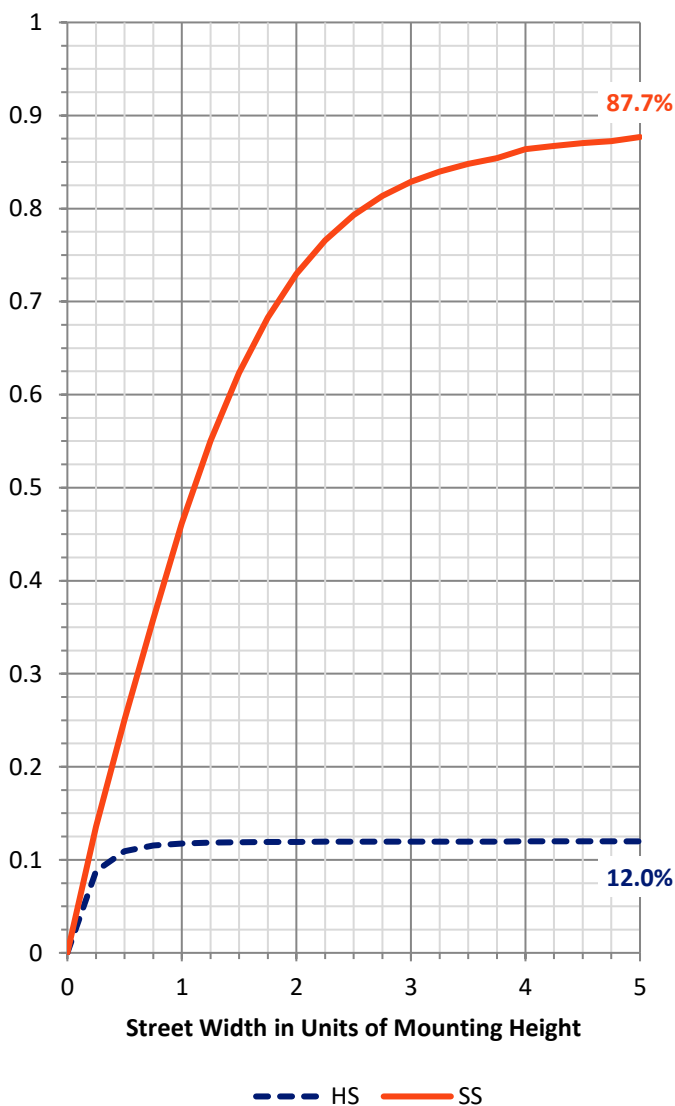
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3626.5	0.0	3626.5
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	26336.5	0.0	26336.5
	% Fixture	87.9	0.0	87.9
Total	Lumens	29963.0	0.0	29963.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	749.1	2.5
10°-20°	1491.1	5.0
20°-30°	2117.3	7.1
30°-40°	3127.4	10.4
40°-50°	4510.4	15.1
50°-60°	6331.7	21.1
60°-70°	7380.9	24.6
70°-80°	3773.3	12.6
80°-90°	481.9	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°	29963.0	100.0
0°-180°	29963.0	100.0

Coefficient of Utilization

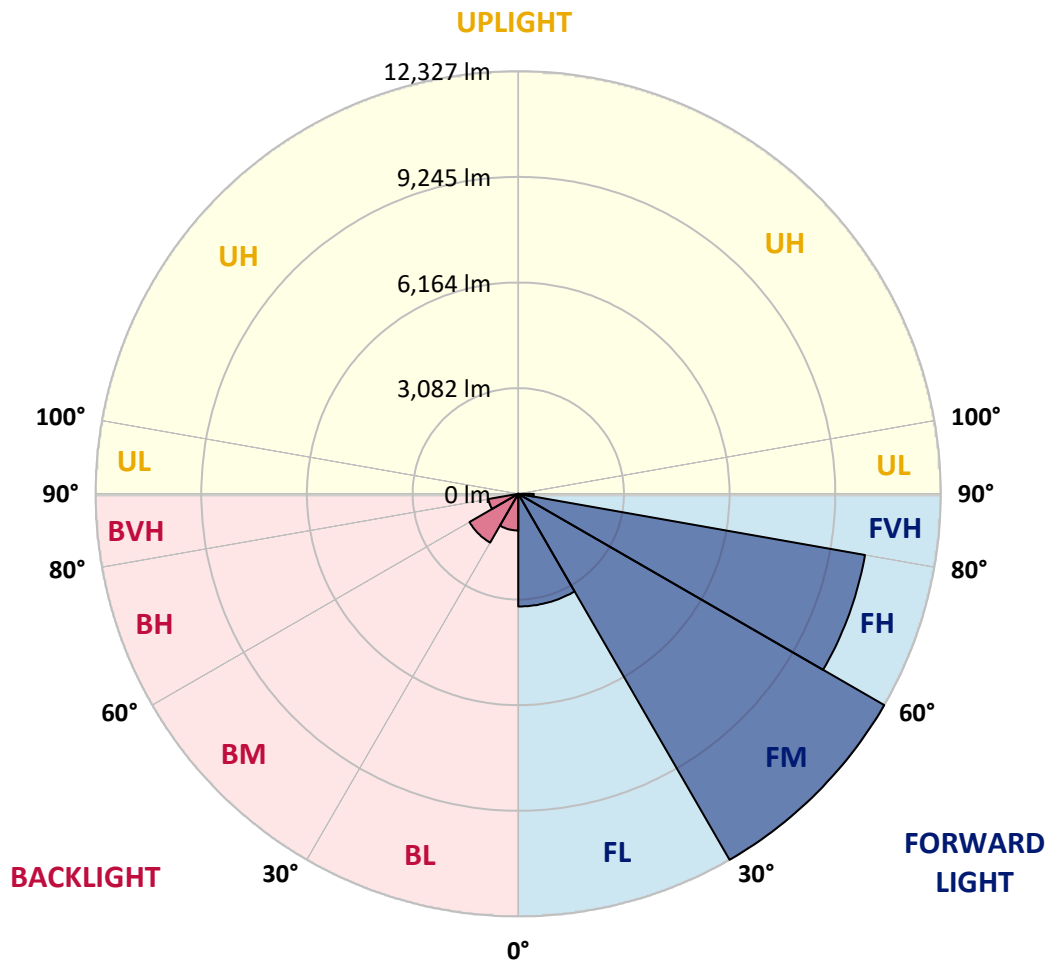


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3286.4	11.0			
FM (30°-60°)	12327.3	41.1			
FH (60°-80°)	10270.3	34.3			G4/12000
FVH (80°-90°)	452.6	1.5			G3/500
BL (0°-30°)	1071.1	3.6	B3/2500		
BM (30°-60°)	1642.2	5.5	B2/2500		
BH (60°-80°)	883.9	2.9	B2/1000		G2/1000
BVH (80°-90°)	29.3	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9760.4	9760.4	9760.4	9760.4	9760.4	9760.4	9760.4	9760.4	9760.4	9760.4	9760.4
2.5°	10687.3	10605.0	10514.1	10217.5	9942.1	9627.0	9370.0	9191.2	8966.9	8675.9	8602.1
5°	10610.7	10522.7	10237.3	9577.3	8999.5	8437.4	7895.2	7577.2	7182.6	6782.3	6682.9
7.5°	9839.9	9747.6	9336.0	8431.8	7653.9	6841.9	6137.9	5702.1	5256.4	4890.1	4695.7
10°	9037.9	8937.1	8474.3	7377.1	6418.9	5685.0	5168.4	4752.4	4330.9	3939.1	3626.8
12.5°	8485.7	8353.7	7851.2	6607.7	5773.1	5274.8	4792.2	4293.9	3723.3	3303.1	2959.6
15°	8254.3	8103.9	7573.0	6311.0	5544.5	4959.7	4330.9	3719.1	3050.5	2569.3	2254.1
17.5°	8433.2	8237.3	7668.1	6291.2	5257.8	4461.4	3666.5	2948.3	2222.9	1736.0	1511.8
20°	9040.7	8783.8	8061.3	6285.5	4910.0	3869.5	2861.7	2049.7	1464.9	1178.2	1060.4
22.5°	9997.4	9658.2	8626.2	6330.9	4550.9	3247.8	2066.8	1392.5	1100.1	951.1	881.5
25°	11152.9	10759.7	9439.6	6491.3	4235.7	2643.1	1501.8	1100.1	928.3	819.0	760.8
27.5°	12251.6	11932.2	10467.3	6722.7	3991.6	2154.8	1219.3	932.6	793.5	721.1	674.3
30°	13348.9	12947.1	11522.0	6998.1	3697.8	1824.0	1071.7	850.3	711.2	634.5	604.7
32.5°	14146.6	13813.0	12348.1	7196.8	3384.1	1608.3	958.2	777.9	664.3	586.2	542.2
35°	15084.9	14707.3	13056.4	7240.8	3182.5	1472.0	861.6	699.8	576.3	506.8	459.9
37.5°	16098.4	15628.6	13874.1	7144.3	3024.9	1405.3	789.2	664.3	538.0	467.0	417.3
40°	17219.8	16688.9	14659.0	7005.2	2870.2	1382.6	733.9	637.3	508.2	435.8	384.7
42.5°	18400.8	17774.8	15339.0	6859.0	2772.3	1304.5	728.2	610.4	485.5	407.4	356.3
45°	19393.0	18758.5	16037.4	6810.7	2702.7	1219.3	752.3	591.9	469.9	384.7	335.0
47.5°	20183.7	19583.2	16752.8	6918.6	2663.0	1141.3	685.6	616.1	461.3	364.8	316.5
50°	21127.6	20447.7	17760.6	7240.8	2604.8	1063.2	620.3	705.5	461.3	352.0	300.9
52.5°	22311.5	21638.7	18884.9	7740.5	2488.4	955.3	557.9	706.9	465.6	335.0	281.1
55°	23800.5	23312.2	20490.3	8288.4	2302.4	796.3	482.6	607.5	448.6	303.8	262.6
57.5°	25228.5	24829.7	21953.8	8663.1	2054.0	621.7	420.2	489.7	410.2	266.9	234.2
59°	25618.9	25183.1	22490.3	8680.2	1868.0	542.2	388.9	404.6	401.7	249.8	217.2
60°	25618.9	25156.1	22645.1	8589.3	1733.2	498.2	369.1	360.5	418.7	238.5	207.2
62.5°	25154.7	24504.6	22142.6	7974.7	1413.8	424.4	322.2	298.1	376.2	214.3	183.1
65°	24189.5	23242.7	20430.7	6863.2	1260.5	388.9	278.2	244.2	261.2	188.8	160.4
67.5°	22579.8	21296.6	17962.2	5544.5	1199.5	379.0	239.9	207.2	197.3	161.8	140.5
70°	19745.1	18321.3	14965.7	4359.2	1146.9	374.7	201.6	174.6	159.0	136.3	119.2
72.5°	14370.9	12886.1	10624.9	3408.2	1115.7	383.3	161.8	146.2	130.6	106.5	92.3
75°	8220.2	7247.9	5971.8	2251.3	951.1	366.2	124.9	122.1	93.7	76.7	63.9
77.5°	4247.1	4117.9	3578.5	864.5	455.7	160.4	82.3	71.0	55.4	46.8	38.3
80°	1832.6	1812.7	1568.5	249.8	120.7	89.4	46.8	29.8	25.6	19.9	15.6
82.5°	633.1	633.1	557.9	83.7	53.9	44.0	5.7	0.0	0.0	0.0	0.0
85°	127.8	143.4	100.8	0.0	18.5	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°	9760.4	9760.4	9760.4	9760.4	9760.4	9760.4	9760.4	9760.4	9760.4	9760.4	9760.4
2.5°	8512.7	8340.9	8329.5	8221.7	8086.8	8025.8	7990.3	8052.7	8129.4	8137.9	8252.9
5°	6607.7	6427.4	6502.7	6311.0	6349.4	6311.0	6248.6	6259.9	6294.0	6187.5	6319.6
7.5°	4640.3	4504.0	4590.6	4539.5	4607.7	4634.6	4596.3	4539.5	4372.0	4352.1	4467.1
10°	3497.6	3342.9	3250.6	3154.1	3175.4	3219.4	3205.2	3164.0	3057.6	3063.3	3174.0
12.5°	2810.6	2637.4	2454.3	2217.2	2159.0	2191.7	2159.0	2134.9	2032.7	2041.2	2139.2
15°	2132.1	1990.1	1798.5	1608.3	1504.7	1514.6	1423.7	1359.9	1296.0	1219.3	1279.0
17.5°	1439.4	1352.8	1296.0	1239.2	1115.7	1087.3	972.3	848.9	800.6	765.1	790.7
20°	1019.2	972.3	949.6	946.8	875.8	840.3	728.2	651.5	627.4	620.3	635.9
22.5°	851.7	817.6	785.0	766.5	731.0	689.9	604.7	566.4	549.3	540.8	552.2
25°	741.0	715.4	681.4	650.1	635.9	591.9	530.9	502.5	491.1	482.6	488.3
27.5°	658.6	635.9	596.2	576.3	565.0	526.6	474.1	451.4	441.5	438.6	437.2
30°	593.3	572.1	535.1	512.4	492.6	458.5	427.3	404.6	394.6	391.8	388.9
32.5°	528.0	511.0	486.9	464.2	442.9	411.7	384.7	366.2	350.6	347.8	346.4
35°	445.7	428.7	415.9	414.5	394.6	364.8	344.9	320.8	308.0	303.8	305.2
37.5°	396.0	373.3	344.9	354.9	349.2	327.9	300.9	276.8	264.0	261.2	261.2
40°	364.8	340.7	308.0	291.0	308.0	303.8	261.2	237.1	224.3	222.9	220.0
42.5°	335.0	310.9	274.0	245.6	254.1	266.9	225.7	203.0	190.2	187.4	183.1
45°	313.7	288.2	247.0	214.3	197.3	224.3	193.1	164.7	157.6	151.9	149.0
47.5°	293.8	269.7	222.9	186.0	157.6	161.8	154.7	134.9	126.3	120.7	119.2
50°	276.8	251.2	201.6	159.0	130.6	119.2	124.9	106.5	99.4	93.7	90.8
52.5°	256.9	232.8	178.9	137.7	109.3	93.7	95.1	83.7	76.7	72.4	71.0
55°	241.3	217.2	160.4	120.7	96.5	76.7	68.1	65.3	61.0	58.2	56.8
57.5°	220.0	197.3	141.9	102.2	82.3	62.5	52.5	52.5	51.1	48.3	46.8
59°	207.2	187.4	130.6	92.3	75.2	53.9	46.8	48.3	46.8	44.0	42.6
60°	197.3	178.9	122.1	85.2	71.0	49.7	42.6	45.4	44.0	41.2	39.7
62.5°	174.6	161.8	105.0	71.0	62.5	39.7	35.5	38.3	38.3	36.9	35.5
65°	153.3	139.1	89.4	59.6	58.2	34.1	28.4	34.1	35.5	32.6	29.8
67.5°	133.4	119.2	78.1	48.3	53.9	27.0	21.3	28.4	38.3	29.8	27.0
70°	113.6	99.4	61.0	38.3	56.8	18.5	17.0	25.6	45.4	32.6	25.6
72.5°	88.0	76.7	42.6	28.4	61.0	12.8	12.8	21.3	51.1	35.5	24.1
75°	61.0	49.7	25.6	17.0	49.7	8.5	8.5	19.9	48.3	32.6	22.7
77.5°	35.5	27.0	8.5	1.4	25.6	0.0	1.4	14.2	34.1	19.9	9.9
80°	12.8	5.7	0.0	0.0	15.6	0.0	0.0	0.0	2.8	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°	9760.4	9760.4	9760.4	9760.4	9760.4	9760.4	9760.4	9760.4	9760.4	9760.4	9760.4
2.5°	8282.7	8474.3	8646.1	8905.9	9213.9	9568.8	9874.0	10201.9	10509.9	10637.6	10725.6
5°	6346.5	6583.6	6860.4	7242.2	7750.4	8376.4	8962.6	9625.5	10338.1	10694.4	11029.4
7.5°	4487.0	4728.3	5071.8	5477.8	6092.4	6837.7	7604.2	8519.8	9485.0	10048.5	10603.6
10°	3226.5	3523.2	3844.0	4399.0	5023.6	5730.5	6519.7	7541.7	8617.7	9242.3	9910.9
12.5°	2195.9	2533.8	3019.2	3641.0	4374.9	5067.6	5753.2	6728.4	7977.5	8596.4	9313.3
15°	1317.3	1504.7	2018.5	2738.2	3638.1	4501.2	5252.1	6230.1	7561.6	8319.6	9064.8
17.5°	811.9	898.5	1178.2	1768.7	2714.1	3805.6	4834.8	6061.2	7621.2	8543.9	9341.6
20°	647.3	681.4	770.8	1044.7	1798.5	3039.1	4364.9	6027.1	8108.1	9243.7	10099.6
22.5°	562.1	594.8	654.4	759.4	1131.3	2275.4	3919.2	6058.4	8806.5	10292.7	11292.0
25°	495.4	523.8	580.6	667.2	829.0	1602.6	3442.3	6197.5	9716.4	11594.4	12656.1
27.5°	442.9	467.0	519.5	599.0	711.2	1118.6	2901.4	6366.4	10795.2	12925.8	13973.4
30°	394.6	415.9	462.8	536.6	617.5	860.2	2308.1	6481.4	11875.4	13973.4	14914.5
32.5°	353.5	369.1	411.7	474.1	536.6	685.6	1754.5	6462.9	12677.4	14845.0	15591.6
35°	310.9	326.5	363.4	417.3	467.0	566.4	1379.7	6118.0	13375.8	15749.2	16366.7
37.5°	264.0	283.9	319.4	367.6	401.7	498.2	1115.7	5702.1	14084.1	16782.6	17231.2
40°	224.3	244.2	275.4	327.9	349.2	472.7	857.4	5195.3	14880.5	17938.1	18179.4
42.5°	186.0	204.4	237.1	282.5	329.3	407.4	634.5	4616.2	15645.6	18926.0	19043.8
45°	150.5	168.9	203.0	248.4	352.0	337.8	491.1	3995.9	16263.1	19747.9	19786.2
47.5°	119.2	136.3	171.8	234.2	327.9	269.7	350.6	3509.0	16781.2	20389.5	20288.7
50°	92.3	106.5	143.4	268.3	286.7	222.9	265.4	3347.2	17245.3	20787.0	20525.8
52.5°	72.4	85.2	117.8	251.2	222.9	184.5	222.9	3499.0	17881.3	21116.3	20659.2
55°	58.2	71.0	92.3	143.4	151.9	156.1	190.2	3641.0	18978.5	21888.5	21447.0
57.5°	48.3	61.0	75.2	100.8	115.0	132.0	168.9	3656.6	20271.7	23171.7	22754.4
59°	44.0	55.4	68.1	89.4	100.8	120.7	159.0	3571.4	20727.3	23638.7	23430.1
60°	41.2	52.5	63.9	82.3	93.7	113.6	153.3	3490.5	20747.2	23621.7	23718.2
62.5°	35.5	46.8	56.8	69.6	79.5	96.5	137.7	3191.0	19906.9	22848.1	23545.0
65°	31.2	41.2	51.1	59.6	68.1	86.6	124.9	2644.5	18471.8	21600.3	22359.8
67.5°	28.4	35.5	46.8	52.5	61.0	76.7	110.7	1885.1	16679.0	20074.4	20566.9
70°	25.6	34.1	42.6	48.3	55.4	66.7	95.1	1083.1	14084.1	17840.1	18190.7
72.5°	24.1	32.6	38.3	45.4	49.7	59.6	86.6	509.6	10312.6	14291.4	15207.0
75°	21.3	29.8	35.5	42.6	46.8	53.9	73.8	244.2	6859.0	10342.4	11382.9
77.5°	12.8	24.1	32.6	38.3	41.2	46.8	61.0	140.5	4377.7	7158.5	8431.8
80°	0.0	8.5	24.1	32.6	35.5	39.7	46.8	110.7	2342.2	4089.5	4908.6
82.5°	0.0	0.0	17.0	25.6	24.1	27.0	35.5	69.6	1056.1	2672.9	3012.2
85°	0.0	0.0	5.7	19.9	17.0	12.8	24.1	24.1	231.4	1352.8	1687.8
87.5°	0.0	0.0	0.0	1.4	8.5	5.7	9.9	2.8	1.4	100.8	408.8
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°	9760.4	9760.4	9760.4	9760.4	9760.4	9760.4	9760.4	9760.4	9760.4	9760.4
2.5°	11033.7	11138.7	11316.1	11399.9	11358.7	11184.1	10975.5	10762.5	10637.6	10687.3
5°	11712.2	12253.0	12565.3	12668.9	12495.7	12104.0	11591.5	10915.9	10676.0	10610.7
7.5°	11712.2	12730.0	13374.4	13488.0	13101.9	12333.9	11372.9	10318.3	9967.6	9839.9
10°	11300.5	12686.0	13584.5	13764.8	13225.4	12077.0	10789.5	9585.8	9169.9	9037.9
12.5°	10836.4	12328.2	13275.0	13523.5	13080.6	11821.5	10385.0	9090.4	8600.7	8485.7
15°	10551.0	11888.2	12671.8	12852.0	12664.7	11672.4	10288.4	8941.3	8365.0	8254.3
17.5°	10653.2	11547.5	11830.0	11935.0	12061.4	11619.9	10551.0	9267.8	8538.2	8433.2
20°	11037.9	11188.4	11042.2	11174.2	11514.9	11671.0	11177.0	10057.1	9181.2	9040.7
22.5°	11690.9	11002.4	10592.2	10644.7	11059.2	11839.9	12133.8	11184.1	10173.5	9997.4
25°	12451.7	11152.9	10342.4	10295.5	10721.4	12062.8	13008.2	12410.6	11347.4	11152.9
27.5°	13408.5	11490.7	10291.3	10244.4	10603.6	12271.5	13735.0	13622.8	12583.8	12251.6
30°	14146.6	11822.9	10443.2	10335.3	10721.4	12416.3	14318.4	14651.9	13568.9	13348.9
32.5°	14676.1	12214.7	10690.2	10534.0	11053.5	12666.1	14768.3	15594.5	14480.2	14146.6
35°	15079.2	12640.5	11089.0	10832.1	11510.6	13045.1	15189.9	16598.1	15449.7	15084.9
37.5°	15456.8	13238.1	11712.2	11405.6	12227.5	13655.5	15635.6	17736.5	16534.2	16098.4
40°	15983.4	13915.2	12673.2	12400.6	13432.6	14487.3	16192.1	18923.2	17767.7	17219.8
42.5°	16510.1	14642.0	13656.9	13730.7	14935.8	15498.0	16910.3	20178.0	18985.6	18400.8
45°	16991.3	15391.5	15057.9	15398.6	16331.2	16606.6	17624.3	20903.4	19958.0	19393.0
47.5°	17419.9	16328.4	16450.4	17357.5	17918.2	17610.2	18158.1	21529.4	20681.9	20183.7
50°	17918.2	17540.6	18285.8	19569.0	19745.1	18518.6	18643.5	22270.3	21527.9	21127.6
52.5°	18463.3	18818.1	20318.5	21449.9	21393.1	19505.2	19131.8	23100.7	22687.7	22311.5
55°	19082.2	19850.1	22108.5	23210.0	23161.8	20606.7	19941.0	24127.0	24141.2	23800.5
57.5°	20000.6	20738.7	23323.6	24633.8	24714.7	21878.6	21312.2	25276.8	25455.7	25228.5
59°	20659.2	21315.0	23804.8	25228.5	25557.9	22862.3	22314.3	25944.0	25826.1	25618.9
60°	21147.5	21681.2	24043.3	25539.4	26047.6	23529.4	23053.9	26335.7	25870.1	25618.9
62.5°	22355.5	22479.0	24473.4	25891.4	26611.1	25011.4	25134.9	27002.9	25565.0	25154.7
65°	22919.0	22982.9	24467.7	25261.2	26066.0	26165.4	27022.8	27022.8	24819.7	24189.5
67.5°	22683.4	22375.4	23254.0	23171.7	23975.1	25479.8	27732.5	26032.0	23394.6	22579.8
70°	20767.1	19581.8	19191.5	19226.9	19841.6	22162.4	26327.2	23116.3	20697.5	19745.1
72.5°	17279.4	14436.2	13472.3	14572.5	14732.9	17032.4	22436.4	17408.6	15263.7	14370.9
75°	13898.2	10176.3	8609.2	9770.3	10042.9	12464.5	17356.1	10842.0	8915.8	8220.2
77.5°	9984.7	7304.7	6177.6	6096.7	6448.7	7905.1	12315.5	5456.5	4550.9	4247.1
80°	5672.3	4807.8	5176.9	4884.5	5061.9	4942.7	5851.1	2393.3	1960.3	1832.6
82.5°	3423.8	2841.8	3077.4	2562.2	3242.1	2823.4	2254.1	766.5	665.7	633.1
85°	2227.2	1552.9	809.1	542.2	1117.1	1804.2	503.9	208.7	160.4	127.8
87.5°	767.9	396.0	39.7	17.0	119.2	336.4	18.5	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)