

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: P324434

Luminaire Tested: **GAN-SA0A-730-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324434
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-SA0A-730-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K, 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: 31140 lumens
Efficiency: N/A
Efficacy: 96.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

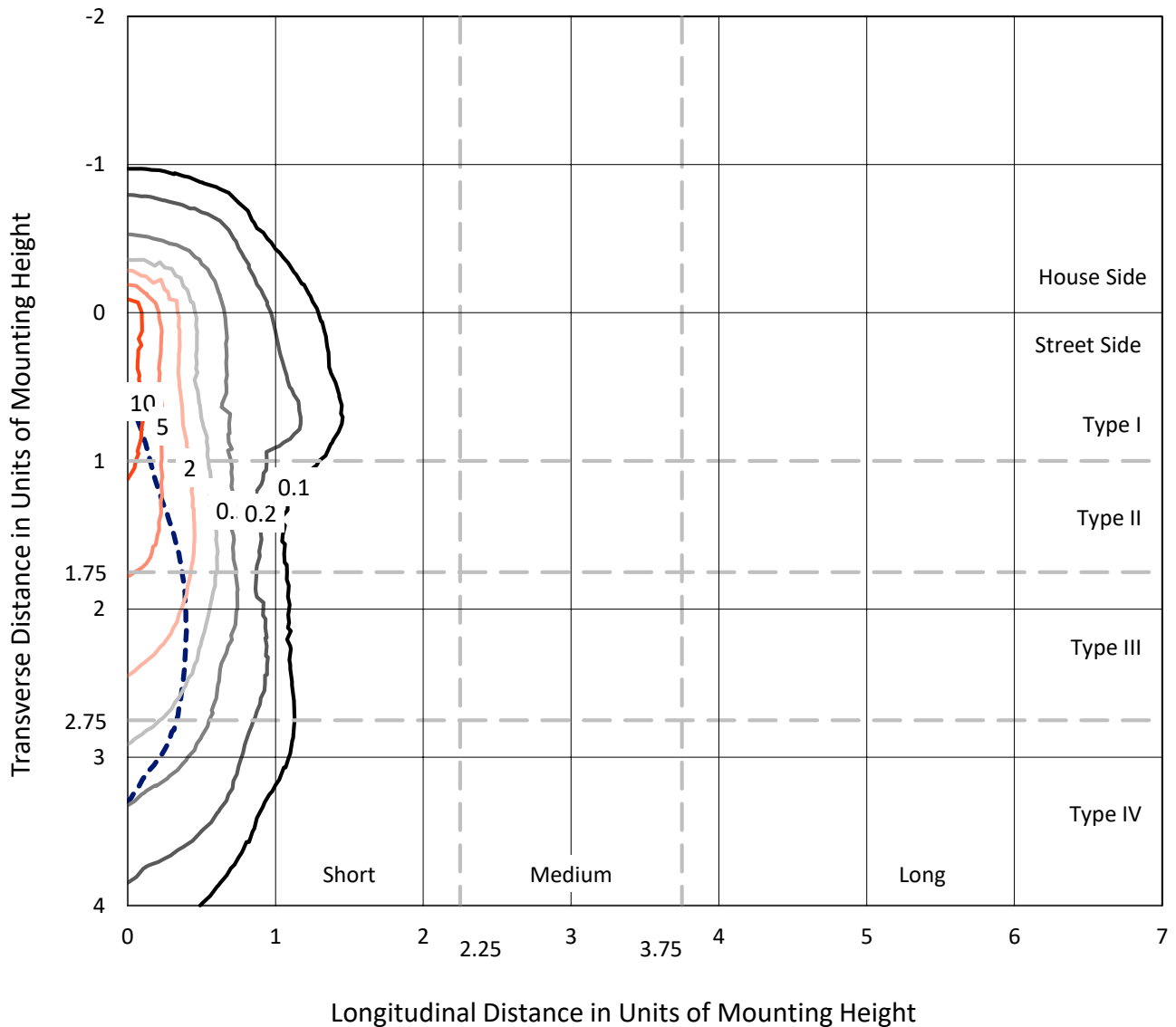
Input Watts (W): 323
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

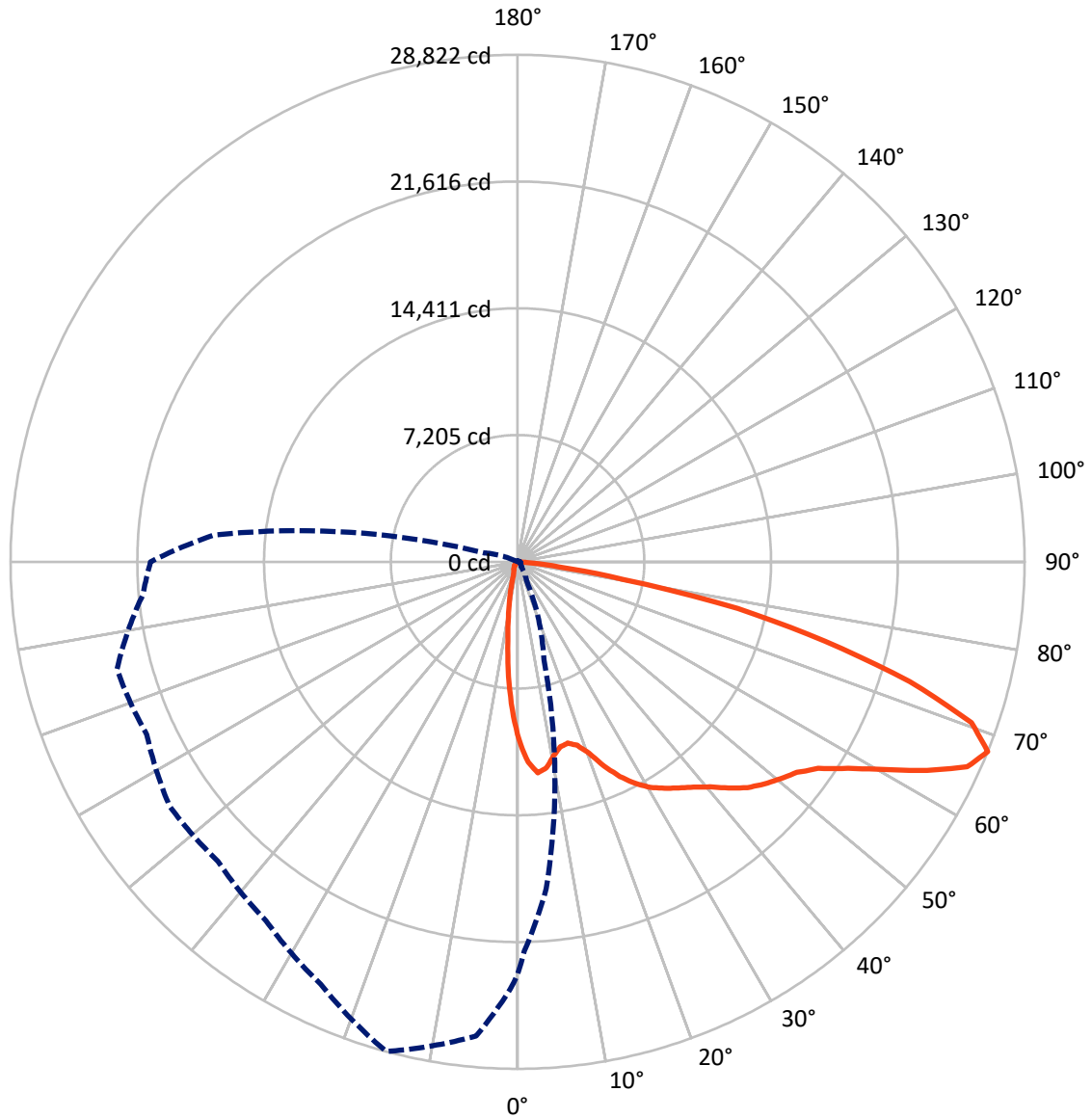
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.2 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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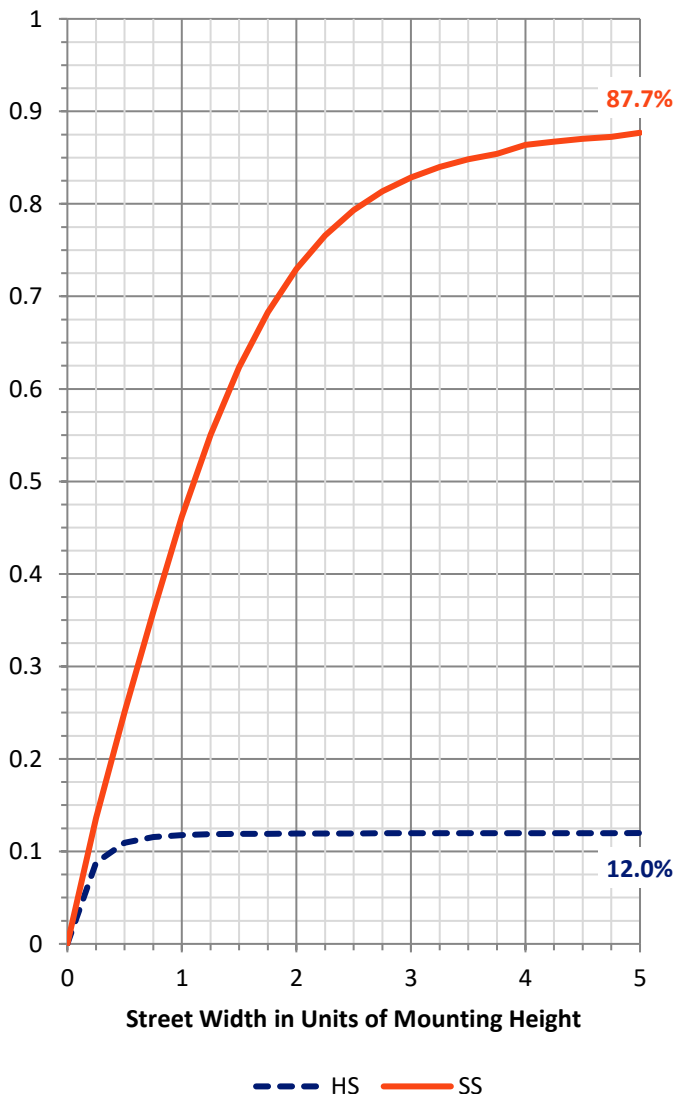
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3769.0	0.0	3769.0
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	27371.0	0.0	27371.0
	% Fixture	87.9	0.0	87.9
Total	Lumens	31140.0	0.0	31140.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	778.5	2.5
10°-20°	1549.6	5.0
20°-30°	2200.5	7.1
30°-40°	3250.3	10.4
40°-50°	4687.6	15.1
50°-60°	6580.4	21.1
60°-70°	7670.8	24.6
70°-80°	3921.5	12.6
80°-90°	500.8	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°	31140.0	100.0
0°-180°	31140.0	100.0

Coefficient of Utilization

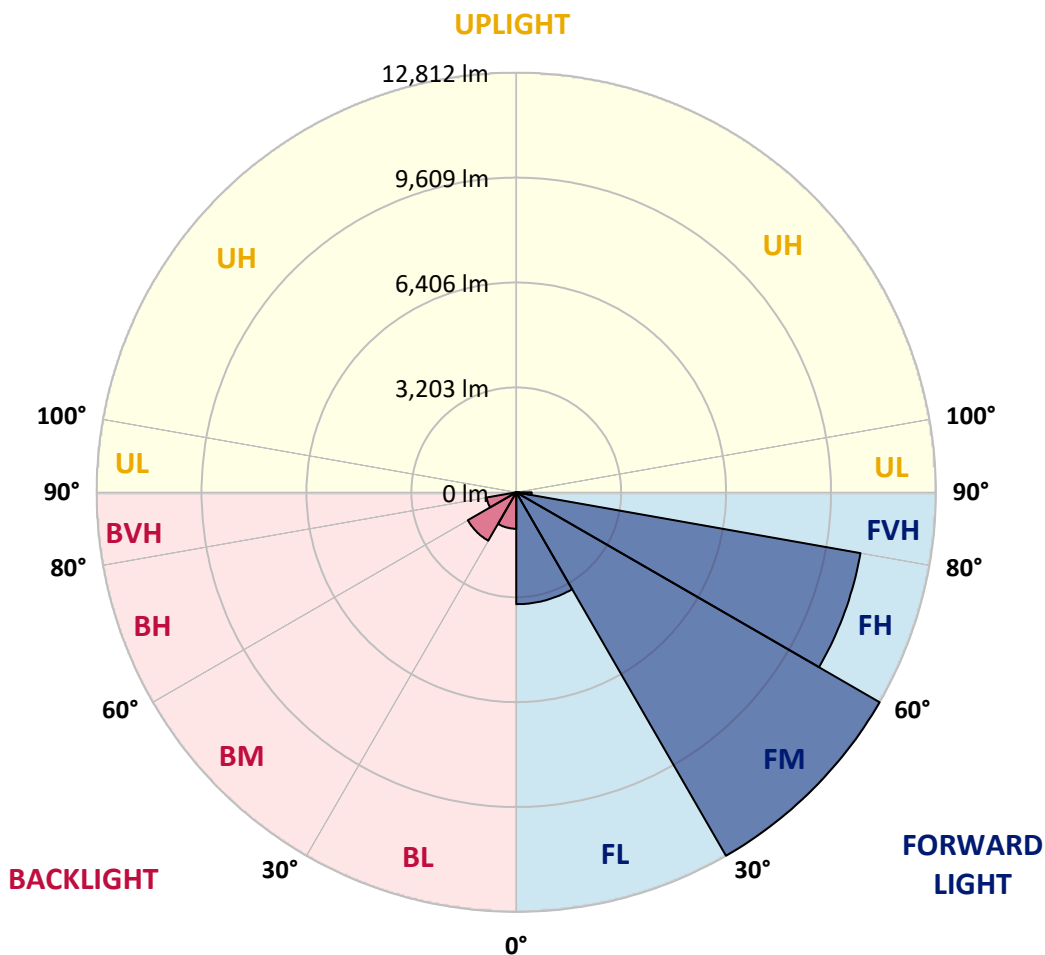


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3415.4	11.0			
FM (30°-60°)	12811.5	41.1			
FH (60°-80°)	10673.7	34.3			G4/12000
FVH (80°-90°)	470.4	1.5			G3/500
BL (0°-30°)	1113.2	3.6	B3/2500		
BM (30°-60°)	1706.7	5.5	B2/2500		
BH (60°-80°)	918.6	2.9	B2/1000		G2/1000
BVH (80°-90°)	30.4	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°	10143.8	10143.8	10143.8	10143.8	10143.8	10143.8	10143.8	10143.8	10143.8	10143.8	10143.8
2.5°	11107.1	11021.6	10927.2	10618.8	10332.6	10005.1	9738.1	9552.2	9319.1	9016.7	8940.0
5°	11027.5	10936.0	10639.5	9953.5	9353.1	8768.9	8205.3	7874.9	7464.7	7048.7	6945.5
7.5°	10226.4	10130.5	9702.7	8763.0	7954.5	7110.7	6379.0	5926.1	5462.8	5082.2	4880.1
10°	9392.9	9288.2	8807.2	7666.9	6671.1	5908.4	5371.4	4939.1	4501.0	4093.8	3769.3
12.5°	8819.0	8681.8	8159.6	6867.3	5999.8	5482.0	4980.4	4462.6	3869.6	3432.9	3075.9
15°	8578.6	8422.2	7870.4	6558.9	5762.3	5154.5	4501.0	3865.1	3170.3	2670.2	2342.7
17.5°	8764.4	8560.9	7969.3	6538.3	5464.3	4636.7	3810.6	3064.1	2310.2	1804.2	1571.1
20°	9395.8	9128.8	8377.9	6532.4	5102.9	4021.5	2974.1	2130.3	1522.5	1224.5	1102.0
22.5°	10390.2	10037.6	8965.1	6579.6	4729.6	3375.4	2148.0	1447.2	1143.3	988.4	916.1
25°	11591.0	11182.4	9810.4	6746.3	4402.1	2746.9	1560.8	1143.3	964.8	851.2	790.7
27.5°	12732.9	12400.9	10878.5	6986.8	4148.4	2239.4	1267.2	969.2	824.7	749.4	700.7
30°	13873.2	13455.7	11974.6	7273.0	3843.0	1895.7	1113.8	883.7	739.1	659.4	628.5
32.5°	14702.3	14355.6	12833.2	7479.5	3517.0	1671.5	995.8	808.4	690.4	609.3	563.5
35°	15677.4	15285.0	13569.3	7525.2	3307.5	1529.8	895.5	727.3	599.0	526.7	478.0
37.5°	16730.8	16242.5	14419.1	7424.9	3143.8	1460.5	820.2	690.4	559.1	485.4	433.7
40°	17896.2	17344.5	15234.9	7280.3	2982.9	1436.9	762.7	662.4	528.1	452.9	399.8
42.5°	19123.6	18473.0	15941.5	7128.4	2881.2	1355.8	756.8	634.4	504.5	423.4	370.3
45°	20154.8	19495.4	16667.3	7078.2	2808.9	1267.2	781.9	615.2	488.3	399.8	348.2
47.5°	20976.5	20352.5	17410.9	7190.4	2767.6	1186.1	712.5	640.3	479.5	379.1	329.0
50°	21957.6	21250.9	18458.3	7525.2	2707.1	1105.0	644.7	733.2	479.5	365.9	312.8
52.5°	23187.9	22488.7	19626.7	8044.5	2586.1	992.8	579.8	734.7	483.9	348.2	292.1
55°	24735.5	24228.0	21295.2	8614.0	2392.9	827.6	501.6	631.4	466.2	315.7	272.9
57.5°	26219.6	25805.0	22816.2	9003.4	2134.7	646.2	436.7	509.0	426.3	277.3	243.4
59°	26625.3	26172.4	23373.8	9021.1	1941.4	563.5	404.2	420.4	417.5	259.6	225.7
60°	26625.3	26144.3	23534.6	8926.7	1801.3	517.8	383.6	374.7	435.2	247.8	215.4
62.5°	26142.8	25467.2	23012.4	8287.9	1469.3	441.1	334.9	309.8	390.9	222.8	190.3
65°	25139.7	24155.7	21233.2	7132.8	1310.0	404.2	289.1	253.7	271.4	196.2	166.7
67.5°	23466.8	22133.1	18667.8	5762.3	1246.6	393.9	249.3	215.4	205.1	168.2	146.0
70°	20520.7	19041.0	15553.5	4530.5	1192.0	389.5	209.5	181.5	165.2	141.6	123.9
72.5°	14935.4	13392.3	11042.2	3542.1	1159.5	398.3	168.2	152.0	135.7	110.6	95.9
75°	8543.2	7532.6	6206.4	2339.7	988.4	380.6	129.8	126.9	97.4	79.7	66.4
77.5°	4413.9	4279.7	3719.1	898.4	473.6	166.7	85.6	73.8	57.5	48.7	39.8
80°	1904.5	1883.9	1630.1	259.6	125.4	92.9	48.7	31.0	26.6	20.7	16.2
82.5°	658.0	658.0	579.8	87.0	56.1	45.7	5.9	0.0	0.0	0.0	0.0
85°	132.8	149.0	104.7	0.0	19.2	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°	10143.8	10143.8	10143.8	10143.8	10143.8	10143.8	10143.8	10143.8	10143.8	10143.8	10143.8
2.5°	8847.1	8668.6	8656.7	8544.6	8404.5	8341.0	8304.2	8369.1	8448.7	8457.6	8577.1
5°	6867.3	6679.9	6758.1	6558.9	6598.8	6558.9	6494.0	6505.8	6541.2	6430.6	6567.8
7.5°	4822.6	4681.0	4770.9	4717.8	4788.7	4816.7	4776.8	4717.8	4543.8	4523.1	4642.6
10°	3635.0	3474.2	3378.3	3278.0	3300.1	3345.9	3331.1	3288.3	3177.7	3183.6	3298.7
12.5°	2921.0	2741.0	2550.7	2304.3	2243.9	2277.8	2243.9	2218.8	2112.6	2121.4	2223.2
15°	2215.8	2068.3	1869.1	1671.5	1563.8	1574.1	1479.7	1413.3	1346.9	1267.2	1329.2
17.5°	1495.9	1405.9	1346.9	1287.9	1159.5	1130.0	1010.5	882.2	832.0	795.2	821.7
20°	1059.2	1010.5	986.9	984.0	910.2	873.3	756.8	677.1	652.1	644.7	660.9
22.5°	885.1	849.7	815.8	796.6	759.8	717.0	628.5	588.6	570.9	562.1	573.9
25°	770.1	743.5	708.1	675.7	660.9	615.2	551.7	522.2	510.4	501.6	507.5
27.5°	684.5	660.9	619.6	599.0	587.1	547.3	492.7	469.1	458.8	455.9	454.4
30°	616.7	594.5	556.2	532.6	511.9	476.5	444.0	420.4	410.1	407.2	404.2
32.5°	548.8	531.1	506.0	482.4	460.3	427.8	399.8	380.6	364.4	361.4	360.0
35°	463.2	445.5	432.2	430.8	410.1	379.1	358.5	333.4	320.1	315.7	317.2
37.5°	411.6	388.0	358.5	368.8	362.9	340.8	312.8	287.7	274.4	271.4	271.4
40°	379.1	354.1	320.1	302.4	320.1	315.7	271.4	246.4	233.1	231.6	228.7
42.5°	348.2	323.1	284.7	255.2	264.1	277.3	234.6	211.0	197.7	194.7	190.3
45°	326.0	299.5	256.7	222.8	205.1	233.1	200.6	171.1	163.8	157.9	154.9
47.5°	305.4	280.3	231.6	193.3	163.8	168.2	160.8	140.1	131.3	125.4	123.9
50°	287.7	261.1	209.5	165.2	135.7	123.9	129.8	110.6	103.3	97.4	94.4
52.5°	267.0	241.9	185.9	143.1	113.6	97.4	98.8	87.0	79.7	75.2	73.8
55°	250.8	225.7	166.7	125.4	100.3	79.7	70.8	67.9	63.4	60.5	59.0
57.5°	228.7	205.1	147.5	106.2	85.6	64.9	54.6	54.6	53.1	50.2	48.7
59°	215.4	194.7	135.7	95.9	78.2	56.1	48.7	50.2	48.7	45.7	44.3
60°	205.1	185.9	126.9	88.5	73.8	51.6	44.3	47.2	45.7	42.8	41.3
62.5°	181.5	168.2	109.2	73.8	64.9	41.3	36.9	39.8	39.8	38.4	36.9
65°	159.3	144.6	92.9	62.0	60.5	35.4	29.5	35.4	36.9	33.9	31.0
67.5°	138.7	123.9	81.1	50.2	56.1	28.0	22.1	29.5	39.8	31.0	28.0
70°	118.0	103.3	63.4	39.8	59.0	19.2	17.7	26.6	47.2	33.9	26.6
72.5°	91.5	79.7	44.3	29.5	63.4	13.3	13.3	22.1	53.1	36.9	25.1
75°	63.4	51.6	26.6	17.7	51.6	8.9	8.9	20.7	50.2	33.9	23.6
77.5°	36.9	28.0	8.9	1.5	26.6	0.0	1.5	14.8	35.4	20.7	10.3
80°	13.3	5.9	0.0	0.0	16.2	0.0	0.0	0.0	3.0	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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	10143.8	10143.8	10143.8	10143.8	10143.8	10143.8	10143.8	10143.8	10143.8	10143.8	10143.8
2.5°	8608.1	8807.2	8985.7	9255.7	9575.8	9944.6	10261.8	10602.6	10922.7	11055.5	11147.0
5°	6595.8	6842.2	7129.9	7526.7	8054.8	8705.4	9314.7	10003.6	10744.2	11114.5	11462.7
7.5°	4663.3	4914.0	5271.1	5693.0	6331.8	7106.3	7902.9	8854.4	9857.6	10443.3	11020.1
10°	3353.2	3661.6	3995.0	4571.8	5220.9	5955.6	6775.8	7838.0	8956.2	9605.3	10300.2
12.5°	2282.2	2633.3	3137.9	3784.0	4546.7	5266.6	5979.2	6992.7	8290.9	8934.1	9679.1
15°	1369.0	1563.8	2097.8	2845.8	3781.1	4678.0	5458.4	6474.9	7858.6	8646.4	9420.9
17.5°	843.8	933.8	1224.5	1838.2	2820.7	3955.1	5024.7	6299.3	7920.6	8879.5	9708.6
20°	672.7	708.1	801.1	1085.8	1869.1	3158.5	4536.4	6263.9	8426.6	9606.8	10496.4
22.5°	584.2	618.1	680.1	789.3	1175.8	2364.8	4073.2	6296.4	9152.4	10697.0	11735.6
25°	514.9	544.4	603.4	693.4	861.5	1665.6	3577.5	6440.9	10098.1	12049.8	13153.3
27.5°	460.3	485.4	539.9	622.6	739.1	1162.5	3015.4	6616.5	11219.3	13433.6	14522.3
30°	410.1	432.2	480.9	557.6	641.7	894.0	2398.8	6736.0	12341.9	14522.3	15500.4
32.5°	367.3	383.6	427.8	492.7	557.6	712.5	1823.4	6716.8	13175.4	15428.1	16204.1
35°	323.1	339.3	377.7	433.7	485.4	588.6	1433.9	6358.3	13901.3	16367.9	17009.6
37.5°	274.4	295.0	331.9	382.1	417.5	517.8	1159.5	5926.1	14637.4	17441.8	17908.0
40°	233.1	253.7	286.2	340.8	362.9	491.3	891.0	5399.4	15465.0	18642.7	18893.5
42.5°	193.3	212.4	246.4	293.6	342.3	423.4	659.4	4797.5	16260.2	19669.5	19791.9
45°	156.4	175.6	211.0	258.2	365.9	351.1	510.4	4152.8	16901.9	20523.6	20563.5
47.5°	123.9	141.6	178.5	243.4	340.8	280.3	364.4	3646.8	17440.4	21190.4	21085.7
50°	95.9	110.6	149.0	278.8	298.0	231.6	275.9	3478.6	17922.8	21603.5	21332.1
52.5°	75.2	88.5	122.4	261.1	231.6	191.8	231.6	3636.5	18583.7	21945.8	21470.7
55°	60.5	73.8	95.9	149.0	157.9	162.3	197.7	3784.0	19724.1	22748.3	22289.5
57.5°	50.2	63.4	78.2	104.7	119.5	137.2	175.6	3800.2	21068.0	24081.9	23648.2
59°	45.7	57.5	70.8	92.9	104.7	125.4	165.2	3711.7	21541.6	24567.3	24350.4
60°	42.8	54.6	66.4	85.6	97.4	118.0	159.3	3627.6	21562.2	24549.6	24649.9
62.5°	36.9	48.7	59.0	72.3	82.6	100.3	143.1	3316.4	20688.9	23745.6	24469.9
65°	32.5	42.8	53.1	62.0	70.8	90.0	129.8	2748.4	19197.4	22448.8	23238.1
67.5°	29.5	36.9	48.7	54.6	63.4	79.7	115.1	1959.1	17334.2	20862.9	21374.9
70°	26.6	35.4	44.3	50.2	57.5	69.3	98.8	1125.6	14637.4	18540.9	18905.3
72.5°	25.1	33.9	39.8	47.2	51.6	62.0	90.0	529.6	10717.7	14852.8	15804.3
75°	22.1	31.0	36.9	44.3	48.7	56.1	76.7	253.7	7128.4	10748.6	11830.0
77.5°	13.3	25.1	33.9	39.8	42.8	48.7	63.4	146.0	4549.7	7439.7	8763.0
80°	0.0	8.9	25.1	33.9	36.9	41.3	48.7	115.1	2434.2	4250.2	5101.4
82.5°	0.0	0.0	17.7	26.6	25.1	28.0	36.9	72.3	1097.6	2777.9	3130.5
85°	0.0	0.0	5.9	20.7	17.7	13.3	25.1	25.1	240.5	1405.9	1754.1
87.5°	0.0	0.0	0.0	1.5	8.9	5.9	10.3	3.0	1.5	104.7	424.9
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°	10143.8	10143.8	10143.8	10143.8	10143.8	10143.8	10143.8	10143.8	10143.8	10143.8
2.5°	11467.1	11576.3	11760.7	11847.7	11804.9	11623.5	11406.6	11185.3	11055.5	11107.1
5°	12172.3	12734.3	13058.9	13166.6	12986.6	12579.4	12046.9	11344.6	11095.3	11027.5
7.5°	12172.3	13230.0	13899.8	14017.8	13616.5	12818.4	11819.7	10723.6	10359.2	10226.4
10°	11744.4	13184.3	14118.1	14305.5	13744.9	12551.4	11213.4	9962.3	9530.1	9392.9
12.5°	11262.0	12812.5	13796.5	14054.7	13594.4	12285.9	10792.9	9447.5	8938.5	8819.0
15°	10965.5	12355.2	13169.5	13356.9	13162.2	12131.0	10692.6	9292.6	8693.6	8578.6
17.5°	11071.7	12001.1	12294.7	12403.9	12535.2	12076.4	10965.5	9631.9	8873.6	8764.4
20°	11471.5	11627.9	11475.9	11613.1	11967.2	12129.5	11616.1	10452.1	9541.9	9395.8
22.5°	12150.1	11434.6	11008.3	11062.9	11493.6	12305.0	12610.4	11623.5	10573.1	10390.2
25°	12940.9	11591.0	10748.6	10700.0	11142.5	12536.6	13519.2	12898.1	11793.1	11591.0
27.5°	13935.2	11942.1	10695.5	10646.9	11020.1	12753.5	14274.5	14157.9	13078.1	12732.9
30°	14702.3	12287.3	10853.4	10741.3	11142.5	12904.0	14880.8	15227.5	14101.9	13873.2
32.5°	15252.6	12694.5	11110.1	10947.8	11487.7	13163.6	15348.5	16207.1	15049.0	14702.3
35°	15671.5	13137.1	11524.6	11257.6	11962.8	13557.5	15786.6	17250.1	16056.6	15677.4
37.5°	16064.0	13758.2	12172.3	11853.6	12707.8	14191.9	16249.8	18433.2	17183.7	16730.8
40°	16611.3	14461.8	13171.0	12887.8	13960.3	15056.4	16828.1	19666.5	18465.7	17896.2
42.5°	17158.6	15217.2	14193.3	14270.1	15522.5	16106.7	17574.6	20970.6	19731.4	19123.6
45°	17658.7	15996.1	15649.4	16003.5	16972.7	17258.9	18316.7	21724.5	20742.0	20154.8
47.5°	18104.2	16969.8	17096.6	18039.3	18622.0	18301.9	18871.4	22375.1	21494.3	20976.5
50°	18622.0	18229.6	19004.1	20337.8	20520.7	19246.1	19375.9	23145.1	22373.6	21957.6
52.5°	19188.5	19557.3	21116.7	22292.5	22233.4	20271.4	19883.4	24008.2	23578.9	23187.9
55°	19831.7	20629.9	22977.0	24121.8	24071.6	21416.2	20724.3	25074.8	25089.5	24735.5
57.5°	20786.2	21553.4	24239.8	25601.4	25685.5	22738.0	22149.4	26269.7	26455.6	26219.6
59°	21470.7	22152.3	24739.9	26219.6	26561.8	23760.3	23190.9	26963.1	26840.6	26625.3
60°	21978.2	22532.9	24987.7	26542.6	27070.8	24453.7	23959.5	27370.3	26886.4	26625.3
62.5°	23233.7	23362.0	25434.7	26908.5	27656.5	25993.8	26122.2	28063.6	26569.2	26142.8
65°	23819.3	23885.7	25428.8	26253.5	27090.0	27193.2	28084.3	28084.3	25794.7	25139.7
67.5°	23574.4	23254.3	24167.5	24081.9	24916.9	26480.7	28821.9	27054.6	24313.5	23466.8
70°	21582.9	20351.0	19945.3	19982.2	20621.0	23033.0	27361.4	24024.4	21510.6	20520.7
72.5°	17958.2	15003.3	14001.6	15144.9	15311.6	17701.5	23317.8	18092.4	15863.3	14935.4
75°	14444.1	10576.0	8947.4	10154.1	10437.4	12954.1	18037.8	11267.9	9266.0	8543.2
77.5°	10376.9	7591.6	6420.3	6336.2	6702.0	8215.6	12799.2	5670.8	4729.6	4413.9
80°	5895.1	4996.7	5380.2	5076.3	5260.7	5136.8	6081.0	2487.3	2037.3	1904.5
82.5°	3558.3	2953.4	3198.3	2662.8	3369.5	2934.3	2342.7	796.6	691.9	658.0
85°	2314.7	1613.9	840.9	563.5	1161.0	1875.0	523.7	216.9	166.7	132.8
87.5°	798.1	411.6	41.3	17.7	123.9	349.6	19.2	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)