

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: P324479

Luminaire Tested: **GAN-SA5B-740-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324479
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-SA5B-740-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 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: 21173 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

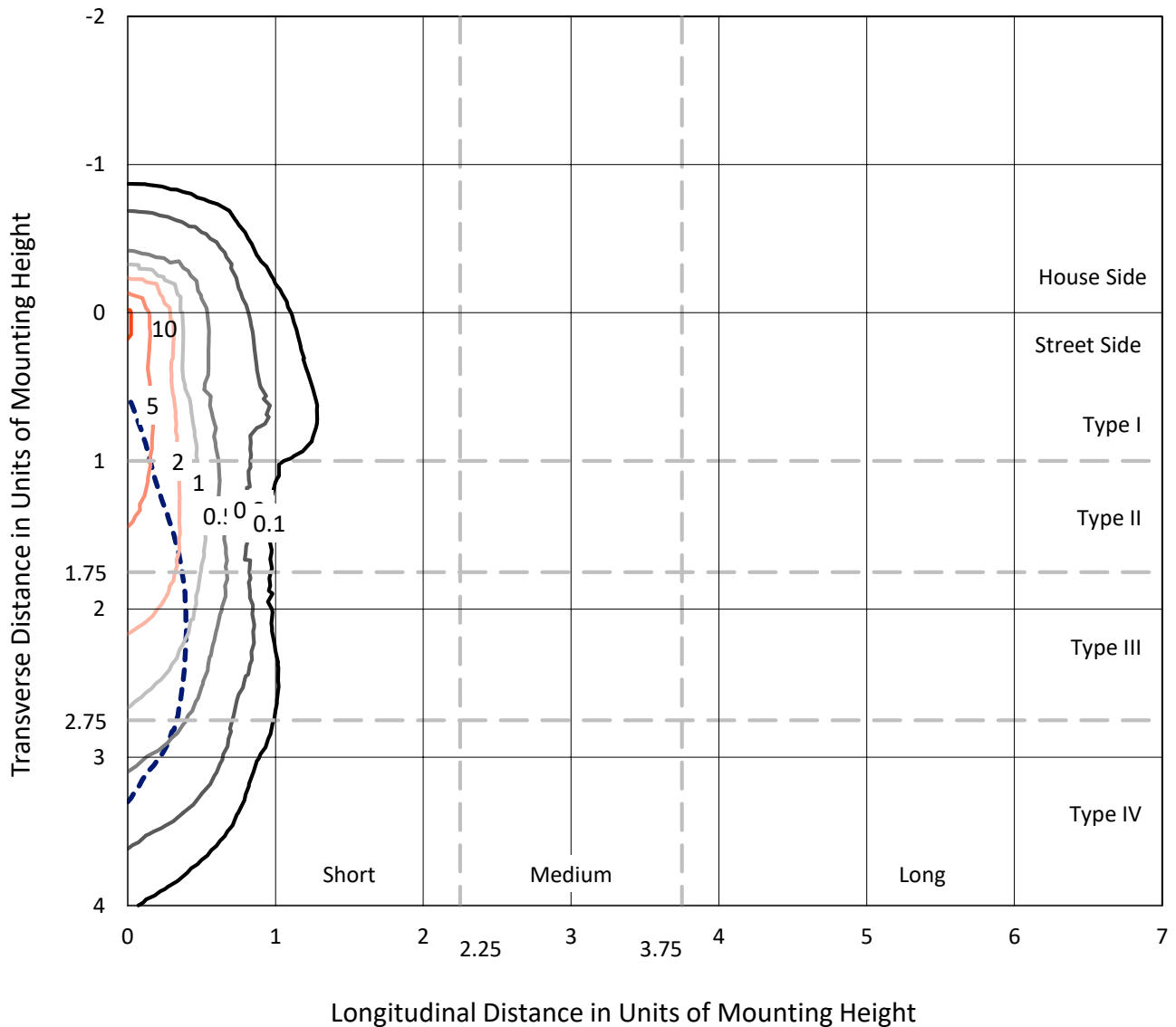
Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

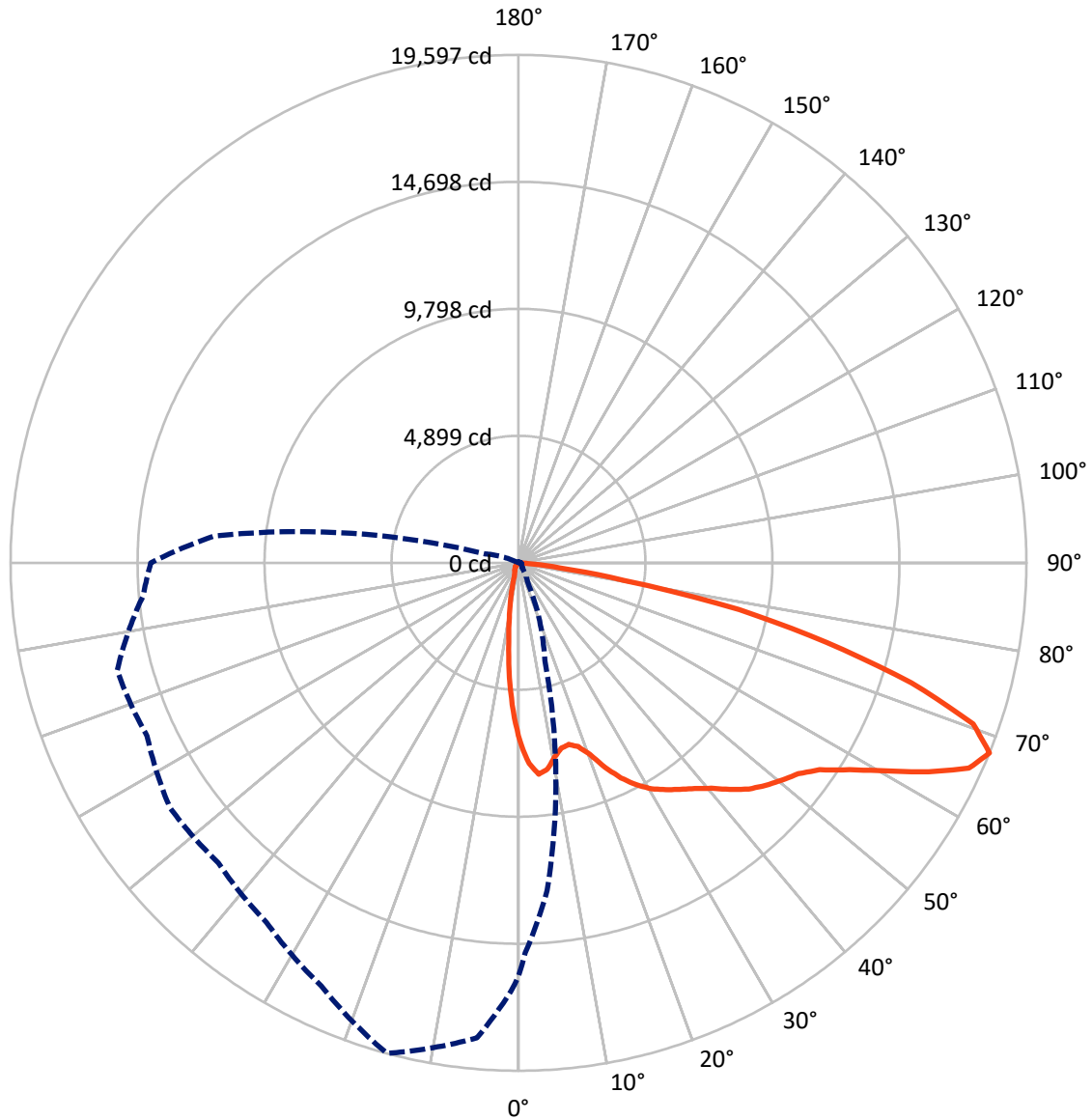
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 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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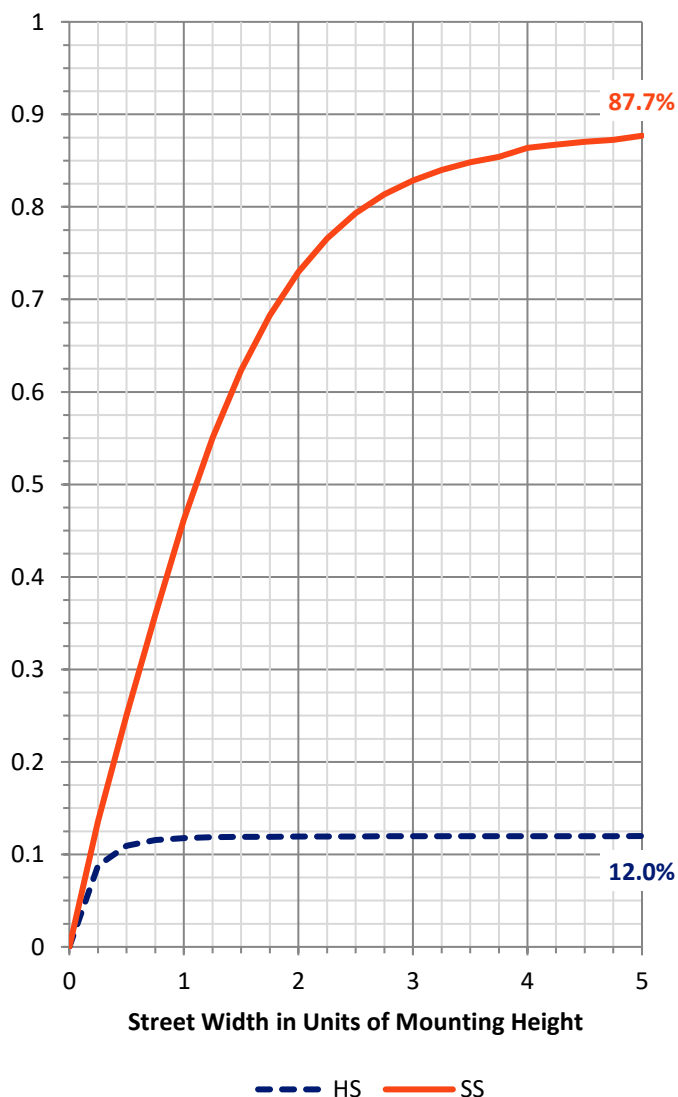
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2562.6	0.0	2562.6
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	18610.4	0.0	18610.4
	% Fixture	87.9	0.0	87.9
Total	Lumens	21173.0	0.0	21173.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	529.3	2.5
10°-20°	1053.6	5.0
20°-30°	1496.2	7.1
30°-40°	2210.0	10.4
40°-50°	3187.2	15.1
50°-60°	4474.2	21.1
60°-70°	5215.6	24.6
70°-80°	2666.3	12.6
80°-90°	340.5	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°	21173.0	100.0
0°-180°	21173.0	100.0

Coefficient of Utilization

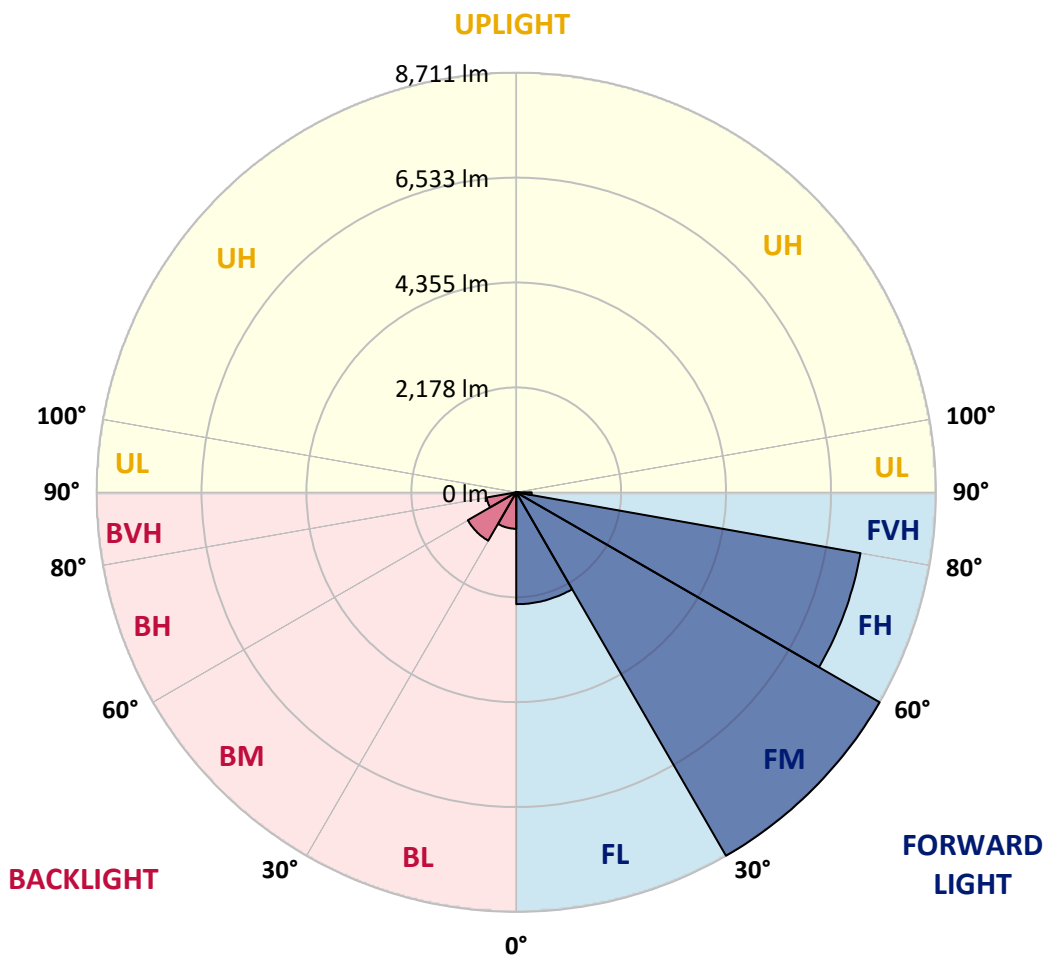


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2322.3	11.0			
FM (30°-60°)	8710.9	41.1			
FH (60°-80°)	7257.4	34.3			G3/7500
FVH (80°-90°)	319.8	1.5			G3/500
BL (0°-30°)	756.9	3.6	B2/1000		
BM (30°-60°)	1160.4	5.5	B2/2500		
BH (60°-80°)	624.6	2.9	B2/1000		G2/1000
BVH (80°-90°)	20.7	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 IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6897.1	6897.1	6897.1	6897.1	6897.1	6897.1	6897.1	6897.1	6897.1	6897.1	6897.1
2.5°	7552.1	7493.9	7429.7	7220.1	7025.5	6802.8	6621.2	6494.8	6336.4	6130.7	6078.6
5°	7497.9	7435.7	7234.1	6767.7	6359.4	5962.2	5579.0	5354.4	5075.5	4792.6	4722.4
7.5°	6953.2	6888.0	6597.1	5958.2	5408.5	4834.8	4337.2	4029.3	3714.3	3455.6	3318.1
10°	6386.5	6315.3	5988.3	5212.9	4535.9	4017.3	3652.2	3358.3	3060.3	2783.5	2562.8
12.5°	5996.3	5903.0	5547.9	4669.3	4079.5	3727.4	3386.3	3034.3	2631.0	2334.1	2091.4
15°	5832.8	5726.5	5351.3	4459.6	3918.0	3504.7	3060.3	2628.0	2155.6	1815.5	1592.9
17.5°	5959.2	5820.8	5418.5	4445.6	3715.3	3152.6	2590.9	2083.4	1570.8	1226.7	1068.3
20°	6388.5	6207.0	5696.4	4441.6	3469.6	2734.4	2022.2	1448.4	1035.2	832.5	749.3
22.5°	7064.6	6824.8	6095.6	4473.7	3215.8	2295.0	1460.5	984.0	777.4	672.1	622.9
25°	7881.1	7603.2	6670.4	4587.0	2993.1	1867.7	1061.2	777.4	656.0	578.8	537.6
27.5°	8657.4	8431.8	7396.6	4750.5	2820.6	1522.7	861.6	659.0	560.7	509.6	476.5
30°	9432.8	9148.9	8141.9	4945.1	2613.0	1288.9	757.3	600.8	502.5	448.4	427.3
32.5°	9996.5	9760.8	8725.7	5085.5	2391.3	1136.5	677.1	549.7	469.4	414.3	383.2
35°	10659.6	10392.7	9226.2	5116.6	2248.9	1040.2	608.9	494.5	407.2	358.1	325.0
37.5°	11375.7	11043.7	9803.9	5048.4	2137.5	993.0	557.7	469.4	380.2	330.0	294.9
40°	12168.2	11793.0	10358.6	4950.1	2028.2	977.0	518.6	450.4	359.1	307.9	271.8
42.5°	13002.7	12560.4	10839.1	4846.8	1959.0	921.8	514.6	431.3	343.0	287.9	251.8
45°	13703.9	13255.5	11332.6	4812.7	1909.8	861.6	531.6	418.3	332.0	271.8	236.7
47.5°	14262.6	13838.3	11838.2	4888.9	1881.7	806.5	484.5	435.3	326.0	257.8	223.7
50°	14929.6	14449.1	12550.3	5116.6	1840.6	751.3	438.3	498.5	326.0	248.8	212.6
52.5°	15766.2	15290.7	13344.8	5469.7	1758.4	675.1	394.2	499.5	329.0	236.7	198.6
55°	16818.4	16473.3	14479.2	5856.9	1627.0	562.7	341.0	429.3	317.0	214.7	185.6
57.5°	17827.4	17545.6	15513.4	6121.7	1451.4	439.3	296.9	346.1	289.9	188.6	165.5
59°	18103.3	17795.4	15892.5	6133.7	1320.0	383.2	274.8	285.9	283.9	176.5	153.5
60°	18103.3	17776.3	16001.9	6069.5	1224.7	352.1	260.8	254.8	295.9	168.5	146.4
62.5°	17775.3	17315.9	15646.8	5635.2	999.1	299.9	227.7	210.6	265.8	151.5	129.4
65°	17093.2	16424.2	14437.1	4849.8	890.7	274.8	196.6	172.5	184.6	133.4	113.3
67.5°	15955.7	15049.0	12692.8	3918.0	847.6	267.8	169.5	146.4	139.4	114.3	99.3
70°	13952.6	12946.5	10575.3	3080.4	810.5	264.8	142.4	123.4	112.3	96.3	84.3
72.5°	10155.0	9105.8	7507.9	2408.4	788.4	270.8	114.3	103.3	92.3	75.2	65.2
75°	5808.7	5121.6	4219.9	1590.9	672.1	258.8	88.3	86.3	66.2	54.2	45.1
77.5°	3001.2	2909.9	2528.7	610.9	322.0	113.3	58.2	50.2	39.1	33.1	27.1
80°	1295.0	1280.9	1108.4	176.5	85.3	63.2	33.1	21.1	18.1	14.0	11.0
82.5°	447.4	447.4	394.2	59.2	38.1	31.1	4.0	0.0	0.0	0.0	0.0
85°	90.3	101.3	71.2	0.0	13.0	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°	6897.1	6897.1	6897.1	6897.1	6897.1	6897.1	6897.1	6897.1	6897.1	6897.1	6897.1
2.5°	6015.4	5894.0	5886.0	5809.7	5714.5	5671.3	5646.2	5690.4	5744.5	5750.6	5831.8
5°	4669.3	4541.9	4595.0	4459.6	4486.7	4459.6	4415.5	4423.5	4447.6	4372.4	4465.6
7.5°	3279.0	3182.7	3243.9	3207.8	3255.9	3275.0	3247.9	3207.8	3089.4	3075.4	3156.6
10°	2471.5	2362.2	2297.0	2228.8	2243.9	2274.9	2264.9	2235.8	2160.6	2164.6	2242.9
12.5°	1986.1	1863.7	1734.3	1566.8	1525.7	1548.7	1525.7	1508.6	1436.4	1442.4	1511.6
15°	1506.6	1406.3	1270.9	1136.5	1063.2	1070.3	1006.1	960.9	915.8	861.6	903.8
17.5°	1017.1	955.9	915.8	875.7	788.4	768.3	687.1	599.8	565.7	540.7	558.7
20°	720.2	687.1	671.0	669.0	618.9	593.8	514.6	460.4	443.4	438.3	449.4
22.5°	601.8	577.8	554.7	541.7	516.6	487.5	427.3	400.2	388.2	382.2	390.2
25°	523.6	505.5	481.5	459.4	449.4	418.3	375.1	355.1	347.1	341.0	345.1
27.5°	465.4	449.4	421.3	407.2	399.2	372.1	335.0	319.0	312.0	309.9	308.9
30°	419.3	404.2	378.2	362.1	348.1	324.0	301.9	285.9	278.9	276.8	274.8
32.5°	373.1	361.1	344.1	328.0	313.0	290.9	271.8	258.8	247.8	245.8	244.7
35°	315.0	302.9	293.9	292.9	278.9	257.8	243.7	226.7	217.7	214.7	215.7
37.5°	279.9	263.8	243.7	250.8	246.8	231.7	212.6	195.6	186.6	184.6	184.6
40°	257.8	240.7	217.7	205.6	217.7	214.7	184.6	167.5	158.5	157.5	155.5
42.5°	236.7	219.7	193.6	173.5	179.5	188.6	159.5	143.4	134.4	132.4	129.4
45°	221.7	203.6	174.5	151.5	139.4	158.5	136.4	116.4	111.3	107.3	105.3
47.5°	207.6	190.6	157.5	131.4	111.3	114.3	109.3	95.3	89.3	85.3	84.3
50°	195.6	177.5	142.4	112.3	92.3	84.3	88.3	75.2	70.2	66.2	64.2
52.5°	181.6	164.5	126.4	97.3	77.2	66.2	67.2	59.2	54.2	51.2	50.2
55°	170.5	153.5	113.3	85.3	68.2	54.2	48.1	46.1	43.1	41.1	40.1
57.5°	155.5	139.4	100.3	72.2	58.2	44.1	37.1	37.1	36.1	34.1	33.1
59°	146.4	132.4	92.3	65.2	53.2	38.1	33.1	34.1	33.1	31.1	30.1
60°	139.4	126.4	86.3	60.2	50.2	35.1	30.1	32.1	31.1	29.1	28.1
62.5°	123.4	114.3	74.2	50.2	44.1	28.1	25.1	27.1	27.1	26.1	25.1
65°	108.3	98.3	63.2	42.1	41.1	24.1	20.1	24.1	25.1	23.1	21.1
67.5°	94.3	84.3	55.2	34.1	38.1	19.1	15.0	20.1	27.1	21.1	19.1
70°	80.2	70.2	43.1	27.1	40.1	13.0	12.0	18.1	32.1	23.1	18.1
72.5°	62.2	54.2	30.1	20.1	43.1	9.0	9.0	15.0	36.1	25.1	17.1
75°	43.1	35.1	18.1	12.0	35.1	6.0	6.0	14.0	34.1	23.1	16.0
77.5°	25.1	19.1	6.0	1.0	18.1	0.0	1.0	10.0	24.1	14.0	7.0
80°	9.0	4.0	0.0	0.0	11.0	0.0	0.0	0.0	2.0	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°	6897.1	6897.1	6897.1	6897.1	6897.1	6897.1	6897.1	6897.1	6897.1	6897.1	6897.1
2.5°	5852.9	5988.3	6109.7	6293.2	6510.9	6761.7	6977.3	7209.0	7426.7	7517.0	7579.1
5°	4484.7	4652.2	4847.8	5117.6	5476.7	5919.1	6333.3	6801.8	7305.3	7557.1	7793.8
7.5°	3170.7	3341.2	3583.9	3870.8	4305.1	4831.8	5373.4	6020.4	6702.5	7100.7	7492.9
10°	2280.0	2489.6	2716.3	3108.5	3549.8	4049.4	4607.1	5329.3	6089.6	6530.9	7003.4
12.5°	1551.7	1790.5	2133.5	2572.9	3091.4	3580.9	4065.4	4754.5	5637.2	6074.6	6581.1
15°	930.8	1063.2	1426.4	1934.9	2570.9	3180.7	3711.3	4402.4	5343.3	5879.0	6405.6
17.5°	573.8	634.9	832.5	1249.8	1917.9	2689.2	3416.4	4283.1	5385.4	6037.4	6601.2
20°	457.4	481.5	544.7	738.3	1270.9	2147.6	3084.4	4259.0	5729.5	6532.0	7136.8
22.5°	397.2	420.3	462.4	536.6	799.4	1607.9	2769.5	4281.1	6223.0	7273.2	7979.4
25°	350.1	370.1	410.3	471.4	585.8	1132.5	2432.4	4379.4	6866.0	8193.0	8943.3
27.5°	313.0	330.0	367.1	423.3	502.5	790.4	2050.3	4498.7	7628.3	9133.9	9874.2
30°	278.9	293.9	327.0	379.2	436.3	607.9	1631.0	4580.0	8391.6	9874.2	10539.2
32.5°	249.8	260.8	290.9	335.0	379.2	484.5	1239.8	4566.9	8958.4	10490.0	11017.7
35°	219.7	230.7	256.8	294.9	330.0	400.2	975.0	4323.2	9451.9	11129.0	11565.3
37.5°	186.6	200.6	225.7	259.8	283.9	352.1	788.4	4029.3	9952.4	11859.2	12176.2
40°	158.5	172.5	194.6	231.7	246.8	334.0	605.9	3671.2	10515.1	12675.7	12846.2
42.5°	131.4	144.4	167.5	199.6	232.7	287.9	448.4	3262.0	11055.8	13373.8	13457.1
45°	106.3	119.4	143.4	175.5	248.8	238.7	347.1	2823.6	11492.1	13954.6	13981.7
47.5°	84.3	96.3	121.4	165.5	231.7	190.6	247.8	2479.6	11858.2	14408.0	14336.8
50°	65.2	75.2	101.3	189.6	202.6	157.5	187.6	2365.2	12186.2	14688.9	14504.3
52.5°	51.2	60.2	83.3	177.5	157.5	130.4	157.5	2472.6	12635.6	14921.6	14598.6
55°	41.1	50.2	65.2	101.3	107.3	110.3	134.4	2572.9	13411.0	15467.2	15155.3
57.5°	34.1	43.1	53.2	71.2	81.2	93.3	119.4	2583.9	14324.8	16374.0	16079.1
59°	31.1	39.1	48.1	63.2	71.2	85.3	112.3	2523.7	14646.7	16704.0	16556.6
60°	29.1	37.1	45.1	58.2	66.2	80.2	108.3	2466.5	14660.8	16692.0	16760.2
62.5°	25.1	33.1	40.1	49.2	56.2	68.2	97.3	2254.9	14067.0	16145.3	16637.8
65°	22.1	29.1	36.1	42.1	48.1	61.2	88.3	1868.7	13052.9	15263.6	15800.3
67.5°	20.1	25.1	33.1	37.1	43.1	54.2	78.2	1332.1	11786.0	14185.3	14533.4
70°	18.1	24.1	30.1	34.1	39.1	47.1	67.2	765.3	9952.4	12606.5	12854.3
72.5°	17.1	23.1	27.1	32.1	35.1	42.1	61.2	360.1	7287.3	10098.8	10745.8
75°	15.0	21.1	25.1	30.1	33.1	38.1	52.2	172.5	4846.8	7308.3	8043.6
77.5°	9.0	17.1	23.1	27.1	29.1	33.1	43.1	99.3	3093.4	5058.4	5958.2
80°	0.0	6.0	17.1	23.1	25.1	28.1	33.1	78.2	1655.1	2889.8	3468.6
82.5°	0.0	0.0	12.0	18.1	17.1	19.1	25.1	49.2	746.3	1888.8	2128.5
85°	0.0	0.0	4.0	14.0	12.0	9.0	17.1	17.1	163.5	955.9	1192.6
87.5°	0.0	0.0	0.0	1.0	6.0	4.0	7.0	2.0	1.0	71.2	288.9
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°	6897.1	6897.1	6897.1	6897.1	6897.1	6897.1	6897.1	6897.1	6897.1	6897.1
2.5°	7796.8	7871.0	7996.4	8055.6	8026.5	7903.1	7755.7	7605.2	7517.0	7552.1
5°	8276.3	8658.4	8879.1	8952.3	8830.0	8553.1	8191.0	7713.6	7544.0	7497.9
7.5°	8276.3	8995.5	9450.9	9531.1	9258.3	8715.6	8036.5	7291.3	7043.5	6953.2
10°	7985.4	8964.4	9599.3	9726.7	9345.5	8534.1	7624.3	6773.7	6479.8	6386.5
12.5°	7657.4	8711.6	9380.7	9556.2	9243.2	8353.5	7338.4	6423.6	6077.6	5996.3
15°	7455.8	8400.7	8954.3	9081.7	8949.3	8248.2	7270.2	6318.3	5911.1	5832.8
17.5°	7528.0	8159.9	8359.5	8433.8	8523.0	8211.1	7455.8	6549.0	6033.4	5959.2
20°	7799.8	7906.1	7802.8	7896.1	8136.9	8247.2	7898.1	7106.7	6487.8	6388.5
22.5°	8261.2	7774.7	7484.9	7522.0	7814.9	8366.6	8574.2	7903.1	7189.0	7064.6
25°	8798.9	7881.1	7308.3	7275.2	7576.1	8524.0	9192.1	8769.8	8018.5	7881.1
27.5°	9474.9	8119.8	7272.2	7239.1	7492.9	8671.5	9705.6	9626.4	8892.2	8657.4
30°	9996.5	8354.5	7379.5	7303.3	7576.1	8773.8	10117.9	10353.6	9588.3	9432.8
32.5°	10370.7	8631.4	7554.1	7443.7	7810.9	8950.3	10435.9	11019.7	10232.3	9996.5
35°	10655.5	8932.3	7835.9	7654.4	8133.8	9218.2	10733.8	11728.8	10917.3	10659.6
37.5°	10922.4	9354.6	8276.3	8059.6	8640.4	9649.5	11048.7	12533.3	11683.7	11375.7
40°	11294.5	9833.0	8955.4	8762.8	9492.0	10237.3	11441.9	13371.8	12555.3	12168.2
42.5°	11666.6	10346.6	9650.5	9702.6	10554.2	10951.4	11949.5	14258.5	13416.0	13002.7
45°	12006.7	10876.2	10640.5	10881.2	11540.2	11734.8	12454.0	14771.1	14103.1	13703.9
47.5°	12309.6	11538.2	11624.5	12265.5	12661.7	12444.0	12831.2	15213.5	14614.6	14262.6
50°	12661.7	12394.9	12921.5	13828.2	13952.6	13086.0	13174.2	15737.1	15212.5	14929.6
52.5°	13046.8	13297.6	14357.9	15157.3	15117.2	13783.1	13519.3	16323.9	16032.0	15766.2
55°	13484.2	14026.8	15622.7	16401.1	16367.0	14561.5	14091.0	17049.1	17059.1	16818.4
57.5°	14133.2	14654.8	16481.3	17407.2	17464.3	15460.2	15060.0	17861.6	17987.9	17827.4
59°	14598.6	15062.0	16821.4	17827.4	18060.2	16155.3	15768.2	18333.0	18249.7	18103.3
60°	14943.6	15320.8	16989.9	18047.1	18406.2	16626.8	16290.8	18609.8	18280.8	18103.3
62.5°	15797.2	15884.5	17293.8	18295.9	18804.4	17674.0	17761.2	19081.3	18065.2	17775.3
65°	16195.5	16240.6	17289.8	17850.5	18419.3	18489.5	19095.3	19095.3	17538.6	17093.2
67.5°	16029.0	15811.3	16432.2	16374.0	16941.7	18005.0	19596.9	18395.2	16531.5	15955.7
70°	14674.8	13837.3	13561.4	13586.5	14020.8	15660.8	18603.8	16334.9	14625.7	13952.6
72.5°	12210.3	10201.2	9520.1	10297.5	10410.8	12035.8	15854.4	12301.6	10785.9	10155.0
75°	9821.0	7191.0	6083.6	6904.1	7096.7	8807.9	12264.5	7661.4	6300.2	5808.7
77.5°	7055.5	5161.8	4365.3	4308.2	4556.9	5586.1	8702.6	3855.8	3215.8	3001.2
80°	4008.2	3397.4	3658.2	3451.5	3576.9	3492.7	4134.6	1691.2	1385.2	1295.0
82.5°	2419.4	2008.1	2174.6	1810.5	2291.0	1995.1	1592.9	541.7	470.4	447.4
85°	1573.8	1097.4	571.7	383.2	789.4	1274.9	356.1	147.5	113.3	90.3
87.5°	542.7	279.9	28.1	12.0	84.3	237.7	13.0	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)