

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: McGRAW-EDISON

Report Number: P528573

Luminaire Tested: **GALN-SA3C-830-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528573
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-23)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3C-830-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9220 lumens
Efficiency: N/A
Efficacy: 57.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

Input Watts (W): 160
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



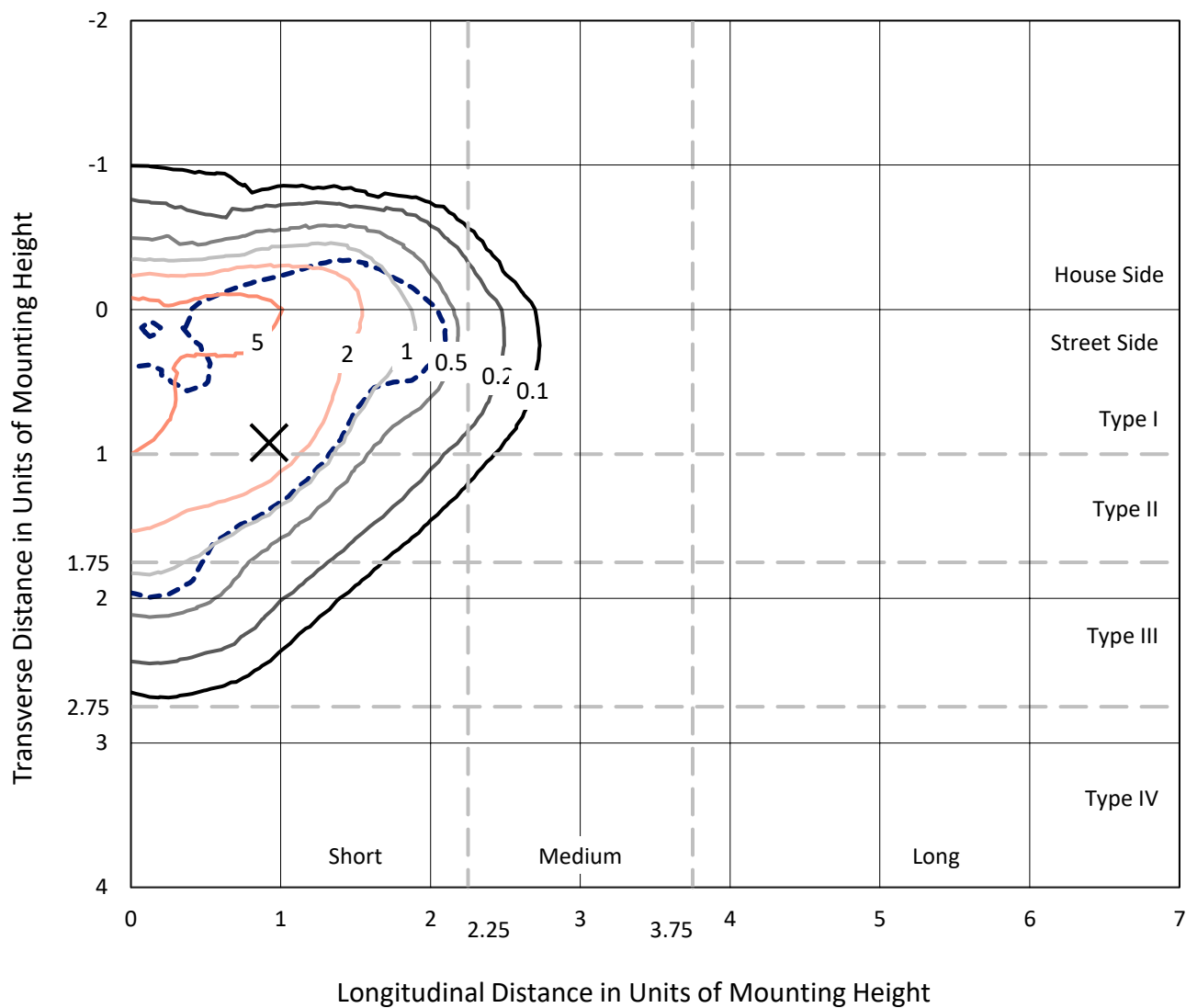
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

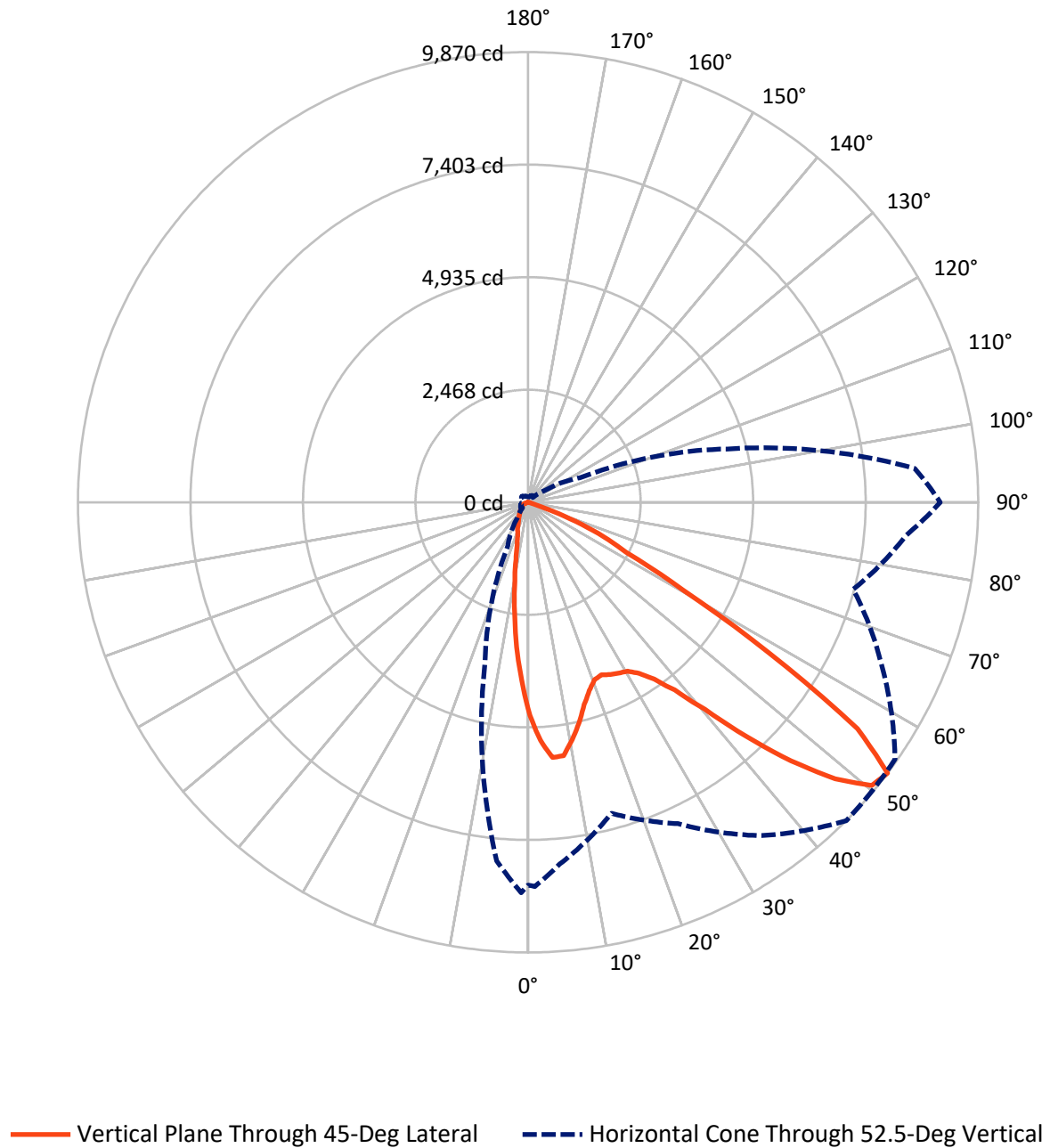
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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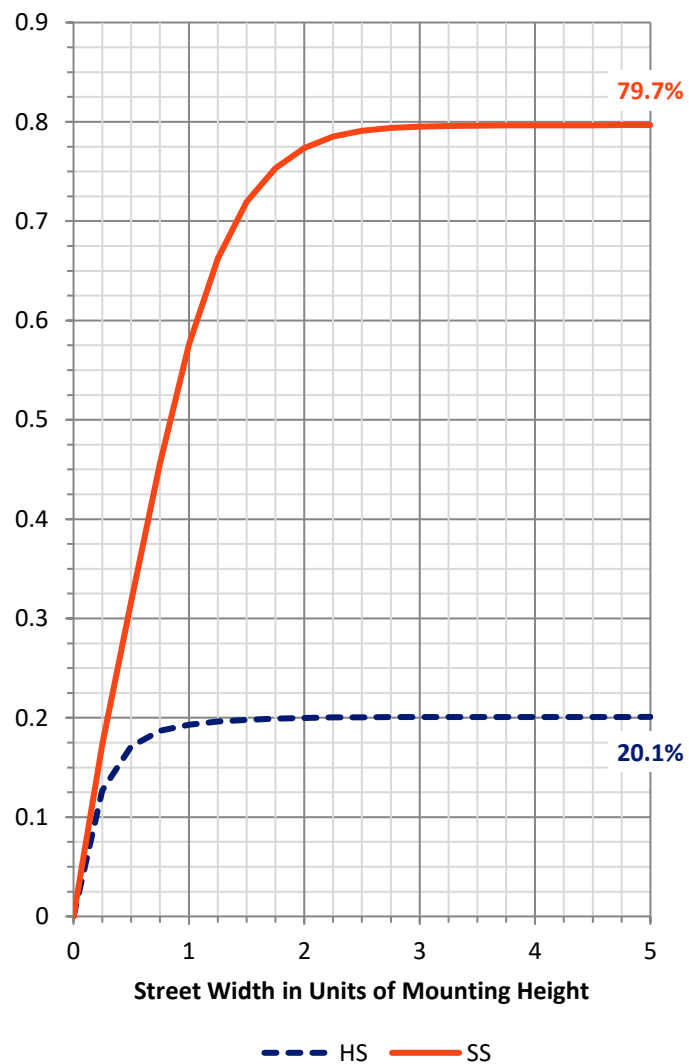
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1871.2	0.0	1871.2
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	7348.8	0.0	7348.8
	% Fixture	79.7	0.0	79.7
Total	Lumens	9220.0	0.0	9220.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	340.9	3.7
10°-20°	672.7	7.3
20°-30°	1023.7	11.1
30°-40°	1530.0	16.6
40°-50°	2178.9	23.6
50°-60°	2342.2	25.4
60°-70°	1037.9	11.3
70°-80°	84.0	0.9
80°-90°	9.8	0.1
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°	9220.0	100.0
0°-180°	9220.0	100.0

Coefficient of Utilization



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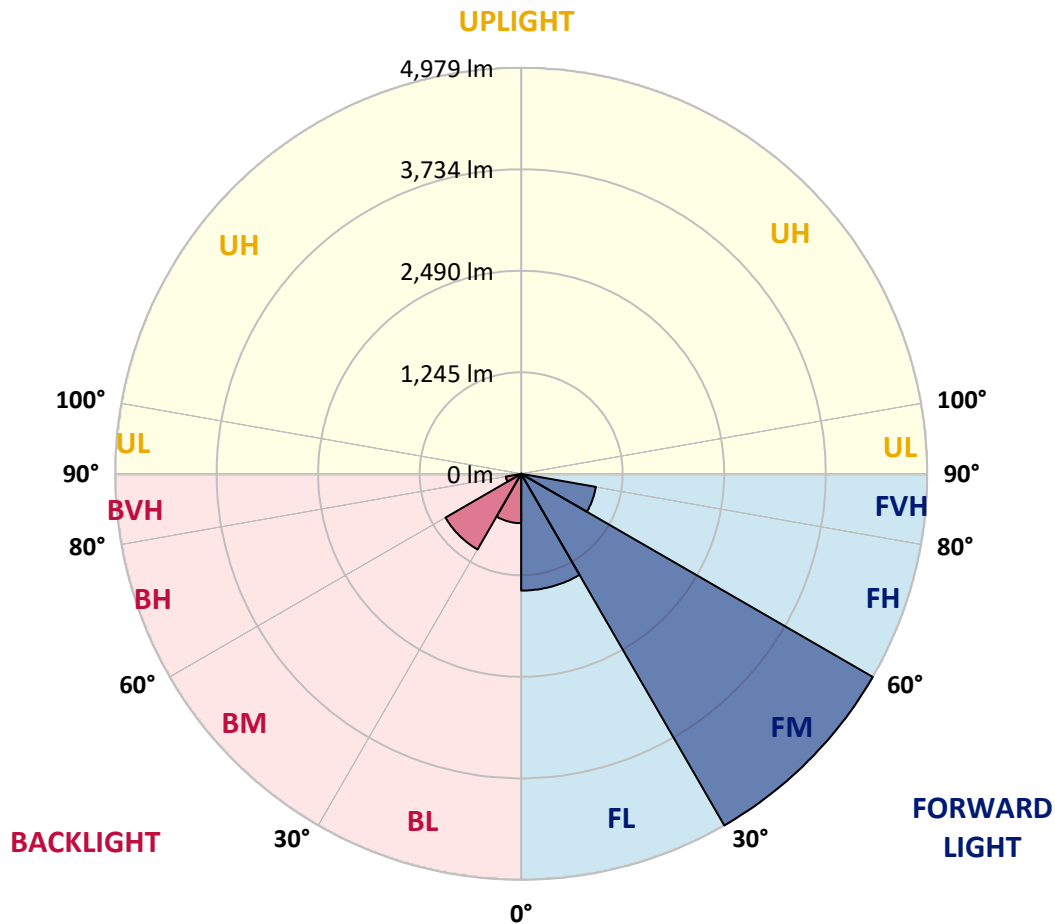
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1432.1	15.5			
FM	(30°-60°)	4979.1	54.0			
FH	(60°-80°)	930.4	10.1			G1/1800
FVH	(80°-90°)	7.2	0.1			G0/10
BL	(0°-30°)	605.2	6.6	B2/1000		
BM	(30°-60°)	1072.0	11.6	B2/2500		
BH	(60°-80°)	191.5	2.1	B1/500		G1/500
BVH	(80°-90°)	2.5	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4675.0	4675.0	4675.0	4675.0	4675.0	4675.0	4675.0	4675.0	4675.0	4675.0	4675.0
2.5°	4947.0	4961.5	5041.3	5141.0	5193.6	5313.3	5229.9	5251.6	5206.3	5046.7	4921.6
5°	4796.5	4794.7	4896.2	5142.8	5376.8	5614.3	5621.6	5494.6	5271.6	5026.8	4676.8
7.5°	4343.1	4413.8	4519.0	4912.5	5345.9	5523.6	5608.9	5460.2	5117.4	4767.5	4388.4
10°	4000.4	4036.6	4214.4	4689.5	5006.8	5244.4	5297.0	5211.7	4948.8	4511.8	4087.4
12.5°	3802.7	3820.9	4029.4	4428.3	4763.8	4939.7	4965.1	5005.0	4816.4	4406.6	3897.0
15°	3804.5	3819.0	4100.1	4433.8	4566.2	4519.0	4602.4	4600.6	4682.2	4386.6	4056.6
17.5°	4078.4	4094.7	4348.6	4513.6	4455.5	4344.9	4339.5	4422.9	4595.2	4635.1	4297.8
20°	4549.8	4587.9	4774.7	4765.6	4439.2	4216.2	4154.5	4218.0	4618.8	4845.4	4783.8
22.5°	5184.5	5237.1	5367.7	5117.4	4513.6	4129.1	4109.2	4232.5	4774.7	5315.1	5335.0
25°	5920.8	6009.6	6073.1	5752.1	4778.3	4279.6	4185.3	4397.5	4985.1	5824.7	6036.8
27.5°	6408.6	6501.1	6486.6	6027.8	4956.0	4319.5	4239.8	4437.4	5168.2	5946.2	6403.1
30°	6789.4	6845.6	6947.2	6176.5	5133.8	4432.0	4296.0	4606.1	5228.1	6156.5	6845.6
32.5°	7233.7	7271.8	7279.0	6439.4	5407.6	4573.4	4470.1	4816.4	5492.8	6357.8	7237.3
35°	7681.6	7737.8	7619.9	6764.0	5576.2	4836.4	4760.2	5180.9	5705.0	6566.4	7668.9
37.5°	8167.6	8196.6	7924.6	6898.2	5817.4	5264.3	5222.6	5574.4	6073.1	6943.5	8147.6
40°	8575.6	8602.8	8249.2	7063.2	6071.3	5862.8	5969.7	6325.2	6573.6	7188.4	8387.0
42.5°	8802.3	8865.8	8358.0	6972.6	6580.9	6541.0	7016.1	7141.2	7153.9	7257.3	8601.0
45°	8863.9	8834.9	8178.5	7046.9	7027.0	7656.2	8087.8	8252.8	7730.6	7384.2	8655.4
47.5°	8579.2	8617.3	7913.7	6981.6	7612.7	8501.3	9059.8	9366.3	8160.3	7273.6	8521.2
50°	8348.9	8300.0	7828.5	6934.5	7770.5	8900.2	9761.6	9830.5	8555.7	7409.6	8374.3
52.5°	8394.3	8425.1	7964.5	7059.6	7774.1	8923.8	9870.4	9823.2	8568.4	7378.8	8321.7
55°	8490.4	8354.4	7906.5	6784.0	7253.6	8265.5	8760.6	8688.0	7908.3	7050.5	8193.0
57.5°	7326.2	7536.5	7270.0	6056.8	5953.4	6227.2	6218.2	6441.2	5899.0	6067.7	7458.6
60°	5946.2	5982.4	6082.2	5180.9	4120.1	4025.8	3895.2	3753.8	3969.6	5188.2	6784.0
62.5°	5229.9	5186.3	5541.8	4713.1	2908.7	2435.4	2413.6	2500.7	3062.8	4948.8	6363.3
65°	3800.9	3855.3	4112.8	3657.6	2183.3	1858.7	1826.1	2083.6	2478.9	3965.9	4856.3
67.5°	2321.2	2426.3	2449.9	2255.9	1481.6	1176.9	1129.8	1363.7	1789.8	2566.0	2847.1
70°	1071.7	1198.7	1318.3	1231.3	857.7	484.2	457.0	573.0	903.1	1476.1	1510.6
72.5°	324.6	326.4	457.0	476.9	277.5	108.8	96.1	126.9	306.5	487.8	513.2
75°	23.6	25.4	61.7	70.7	52.6	27.2	29.0	34.5	65.3	108.8	81.6
77.5°	1.8	1.8	1.8	9.1	16.3	18.1	23.6	27.2	34.5	39.9	36.3
80°	1.8	0.0	1.8	7.3	12.7	18.1	21.8	25.4	27.2	30.8	27.2
82.5°	0.0	0.0	0.0	5.4	12.7	18.1	19.9	27.2	30.8	36.3	30.8
85°	0.0	0.0	0.0	5.4	12.7	19.9	18.1	9.1	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°	4675.0	4675.0	4675.0	4675.0	4675.0	4675.0	4675.0	4675.0	4675.0	4675.0	4675.0
2.5°	4943.4	4872.6	4711.2	4629.6	4437.4	4410.2	4221.6	4190.8	4127.3	4092.9	4009.4
5°	4522.6	4437.4	4174.5	3953.2	3695.7	3516.2	3378.4	3253.3	3180.7	3113.6	3144.5
7.5°	4179.9	3931.5	3639.5	3269.6	2972.2	2780.0	2569.6	2397.3	2295.8	2226.9	2243.2
10°	3820.9	3659.5	3253.3	2838.0	2478.9	2342.9	2177.9	2045.5	1902.3	1779.0	1720.9
12.5°	3708.4	3469.1	2959.5	2537.0	2264.9	2132.6	1944.0	1791.6	1608.5	1458.0	1405.4
15°	3728.4	3498.1	2879.7	2428.2	2107.2	1878.7	1653.8	1465.2	1263.9	1158.8	1104.4
17.5°	4053.0	3654.0	2932.3	2313.9	1887.8	1570.4	1293.0	1053.6	903.1	794.3	770.7
20°	4451.9	3991.3	3044.7	2230.5	1708.2	1249.4	944.8	738.1	612.9	594.8	589.4
22.5°	5035.8	4542.6	3285.9	2174.3	1488.8	973.8	647.4	536.8	502.3	498.7	500.5
25°	5851.9	5233.5	3548.8	2127.1	1323.8	750.8	529.5	455.2	444.3	438.8	447.9
27.5°	6205.5	5650.6	3688.5	2025.6	1173.3	676.4	522.3	451.5	420.7	411.6	417.1
30°	6642.5	5928.0	3907.9	1851.5	952.0	556.7	487.8	491.4	476.9	431.6	417.1
32.5°	7222.8	6274.4	4018.5	1728.2	850.5	460.6	357.2	328.2	366.3	373.6	386.3
35°	7594.6	6626.2	4074.7	1655.6	797.9	393.5	302.8	275.6	266.6	268.4	275.6
37.5°	8285.5	7101.3	4145.5	1579.5	758.0	342.7	273.8	248.4	235.7	235.7	243.0
40°	8698.9	7478.5	4241.6	1537.8	718.1	311.9	248.4	226.7	215.8	215.8	219.4
42.5°	8802.3	7665.3	4208.9	1523.3	672.8	304.7	226.7	210.4	197.7	195.8	194.0
45°	8987.3	7950.0	4214.4	1506.9	625.6	277.5	214.0	195.8	177.7	175.9	174.1
47.5°	9190.4	8154.9	4225.2	1443.5	580.3	232.1	223.0	181.3	159.6	156.0	156.0
50°	9016.3	8318.1	4319.5	1380.0	522.3	188.6	219.4	170.5	141.4	136.0	137.8
52.5°	9038.0	8510.3	4519.0	1291.1	449.7	150.5	177.7	161.4	128.8	119.7	121.5
55°	8689.9	8307.2	4546.2	1196.8	351.8	116.1	136.0	141.4	108.8	105.2	105.2
57.5°	7480.3	7034.2	4011.3	970.2	232.1	96.1	97.9	123.3	94.3	90.7	92.5
60°	6401.3	5647.0	3227.9	640.1	145.1	76.2	70.7	125.1	83.4	81.6	87.0
62.5°	5835.6	4640.5	2448.1	397.1	99.7	58.0	49.0	101.6	72.5	72.5	79.8
65°	4216.2	3117.3	1423.5	208.5	70.7	45.3	36.3	58.0	59.8	61.7	65.3
67.5°	2611.3	1574.0	600.2	101.6	47.1	30.8	23.6	36.3	39.9	39.9	43.5
70°	1289.3	627.4	199.5	58.0	36.3	25.4	16.3	19.9	19.9	18.1	19.9
72.5°	398.9	188.6	50.8	36.3	25.4	16.3	9.1	7.3	3.6	0.0	1.8
75°	45.3	36.3	32.6	25.4	16.3	7.3	1.8	0.0	0.0	0.0	0.0
77.5°	27.2	30.8	30.8	25.4	16.3	5.4	0.0	0.0	0.0	0.0	0.0
80°	21.8	23.6	25.4	23.6	14.5	7.3	0.0	0.0	0.0	0.0	0.0
82.5°	27.2	30.8	34.5	30.8	19.9	9.1	3.6	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	5.4	1.8	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°	4675.0	4675.0	4675.0	4675.0	4675.0	4675.0	4675.0	4675.0	4675.0	4675.0	4675.0
2.5°	3975.0	3935.1	3991.3	3907.9	3906.1	3907.9	3884.3	3862.6	3897.0	3989.5	3998.6
5°	3033.8	3119.1	3146.3	3235.1	3186.2	3113.6	3128.1	3079.2	3198.9	3251.4	3209.7
7.5°	2208.7	2203.3	2386.4	2397.3	2420.9	2422.7	2419.1	2323.0	2225.1	2246.8	2312.1
10°	1713.7	1621.2	1710.0	1701.0	1759.0	1742.7	1766.3	1662.9	1697.4	1697.4	1739.1
12.5°	1396.3	1298.4	1282.1	1258.5	1282.1	1291.1	1300.2	1280.3	1338.3	1365.5	1394.5
15°	1066.3	1011.9	997.4	952.0	959.3	984.7	1006.4	1015.5	997.4	1039.1	1042.7
17.5°	774.3	772.5	781.6	779.8	772.5	767.1	765.3	741.7	734.4	738.1	752.6
20°	587.5	602.1	632.9	663.7	680.0	660.1	632.9	593.0	576.7	580.3	582.1
22.5°	502.3	524.1	565.8	600.2	616.6	580.3	531.3	496.9	489.6	487.8	486.0
25°	455.2	480.6	511.4	522.3	520.4	498.7	462.4	447.9	444.3	440.7	424.3
27.5°	429.8	438.8	444.3	457.0	462.4	447.9	438.8	417.1	413.5	413.5	402.6
30°	415.3	409.8	417.1	408.0	415.3	404.4	406.2	406.2	397.1	400.8	400.8
32.5°	386.3	388.1	388.1	369.9	375.4	362.7	375.4	386.3	388.1	389.9	404.4
35°	282.9	315.5	331.9	331.9	337.3	328.2	326.4	313.7	297.4	281.1	273.8
37.5°	248.4	261.1	282.9	295.6	304.7	297.4	281.1	261.1	252.1	244.8	237.6
40°	221.2	232.1	246.6	261.1	279.3	270.2	244.8	235.7	224.9	224.9	217.6
42.5°	199.5	204.9	214.0	235.7	255.7	237.6	219.4	212.2	206.7	204.9	203.1
45°	179.5	181.3	190.4	208.5	232.1	214.0	195.8	186.8	188.6	190.4	188.6
47.5°	161.4	165.0	170.5	192.2	206.7	197.7	177.7	172.3	172.3	172.3	174.1
50°	139.6	148.7	159.6	177.7	188.6	183.2	166.8	159.6	156.0	156.0	157.8
52.5°	125.1	132.4	146.9	168.6	183.2	174.1	157.8	146.9	139.6	137.8	141.4
55°	108.8	121.5	145.1	161.4	181.3	172.3	154.1	141.4	128.8	126.9	126.9
57.5°	97.9	117.9	139.6	159.6	175.9	168.6	154.1	137.8	121.5	119.7	119.7
60°	92.5	114.2	136.0	154.1	175.9	165.0	152.3	134.2	116.1	116.1	114.2
62.5°	87.0	107.0	128.8	146.9	168.6	159.6	146.9	128.8	110.6	110.6	107.0
65°	72.5	92.5	107.0	123.3	146.9	137.8	125.1	112.4	97.9	94.3	96.1
67.5°	50.8	63.5	78.0	94.3	108.8	105.2	99.7	90.7	78.0	76.2	74.3
70°	25.4	34.5	47.1	63.5	76.2	72.5	68.9	61.7	54.4	52.6	52.6
72.5°	3.6	10.9	19.9	29.0	39.9	41.7	39.9	38.1	36.3	34.5	36.3
75°	0.0	0.0	0.0	7.3	16.3	19.9	23.6	27.2	27.2	23.6	29.0
77.5°	0.0	0.0	0.0	0.0	1.8	9.1	18.1	23.6	29.0	25.4	34.5
80°	0.0	0.0	0.0	0.0	1.8	10.9	18.1	25.4	29.0	25.4	36.3
82.5°	0.0	0.0	0.0	0.0	1.8	12.7	18.1	23.6	27.2	25.4	32.6
85°	0.0	0.0	0.0	0.0	5.4	10.9	7.3	3.6	1.8	1.8	5.4
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°	4675.0	4675.0	4675.0	4675.0	4675.0	4675.0	4675.0	4675.0	4675.0	4675.0
2.5°	4049.3	4178.1	4315.9	4368.5	4531.7	4655.0	4738.4	4918.0	4945.2	4947.0
5°	3253.3	3318.5	3554.3	3664.9	3907.9	4096.5	4297.8	4587.9	4782.0	4796.5
7.5°	2312.1	2493.4	2593.2	2881.5	3180.7	3476.3	3775.5	4112.8	4337.7	4343.1
10°	1860.6	1978.4	2156.1	2371.9	2624.0	2925.0	3324.0	3715.7	3944.2	4000.4
12.5°	1497.9	1704.6	1907.7	2130.8	2323.0	2549.7	2979.4	3501.7	3690.3	3802.7
15°	1153.3	1341.9	1581.3	1842.4	2060.0	2362.9	2852.5	3449.1	3766.5	3804.5
17.5°	850.5	1019.1	1240.4	1487.0	1813.4	2243.2	2874.3	3715.7	4014.9	4078.4
20°	611.1	709.0	883.1	1169.6	1584.9	2103.6	2896.0	3985.9	4441.0	4549.8
22.5°	484.2	524.1	638.3	892.2	1329.2	1956.7	3050.2	4502.7	5026.8	5184.5
25°	420.7	442.5	496.9	703.6	1167.8	1942.2	3296.8	5122.9	5806.5	5920.8
27.5°	406.2	409.8	457.0	645.6	1080.8	1846.1	3391.1	5563.5	6292.5	6408.6
30°	428.0	486.0	489.6	545.8	919.4	1655.6	3440.0	5989.7	6704.2	6789.4
32.5°	369.9	351.8	364.5	422.5	808.8	1545.0	3532.5	6361.4	7173.8	7233.7
35°	257.5	270.2	299.2	366.3	707.2	1429.0	3556.1	6771.3	7619.9	7681.6
37.5°	237.6	244.8	268.4	311.9	622.0	1363.7	3523.5	7070.5	8082.4	8167.6
40°	221.2	230.3	243.0	282.9	558.5	1291.1	3478.1	7340.7	8365.3	8575.6
42.5°	208.5	215.8	226.7	270.2	504.1	1218.6	3414.6	7721.5	8619.1	8802.3
45°	194.0	204.9	217.6	262.9	473.3	1169.6	3367.5	7697.9	8766.0	8863.9
47.5°	179.5	197.7	212.2	244.8	464.2	1146.1	3387.4	7609.1	8646.3	8579.2
50°	165.0	188.6	214.0	203.1	442.5	1098.9	3411.0	7730.6	8361.6	8348.9
52.5°	152.3	179.5	199.5	166.8	393.5	1053.6	3639.5	7890.1	8562.9	8394.3
55°	134.2	161.4	159.6	134.2	319.2	1019.1	3819.0	7893.8	8426.9	8490.4
57.5°	121.5	143.3	125.1	112.4	235.7	852.3	3527.1	6618.9	7213.7	7326.2
60°	112.4	139.6	94.3	88.9	154.1	614.7	3079.2	5126.5	5734.0	5946.2
62.5°	103.4	132.4	74.3	72.5	107.0	437.0	2531.5	4290.5	4941.5	5229.9
65°	90.7	94.3	59.8	56.2	76.2	235.7	1541.4	2954.0	3693.9	3800.9
67.5°	74.3	72.5	49.0	45.3	50.8	114.2	680.0	1479.7	2141.6	2321.2
70°	59.8	59.8	41.7	36.3	36.3	52.6	177.7	589.4	968.4	1071.7
72.5°	43.5	45.3	32.6	29.0	27.2	25.4	29.0	117.9	253.9	324.6
75°	38.1	39.9	32.6	25.4	19.9	16.3	12.7	10.9	14.5	23.6
77.5°	41.7	41.7	34.5	23.6	18.1	12.7	7.3	3.6	3.6	1.8
80°	52.6	54.4	45.3	30.8	21.8	14.5	9.1	3.6	1.8	1.8
82.5°	56.2	61.7	50.8	38.1	27.2	16.3	9.1	1.8	0.0	0.0
85°	14.5	23.6	39.9	34.5	27.2	16.3	9.1	1.8	0.0	0.0
87.5°	0.0	1.8	5.4	5.4	7.3	7.3	5.4	1.8	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)