

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: P532397

Luminaire Tested: **GALN-SA7D-730-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532397
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7D-730-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27128 lumens
Efficiency: N/A
Efficacy: 62.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

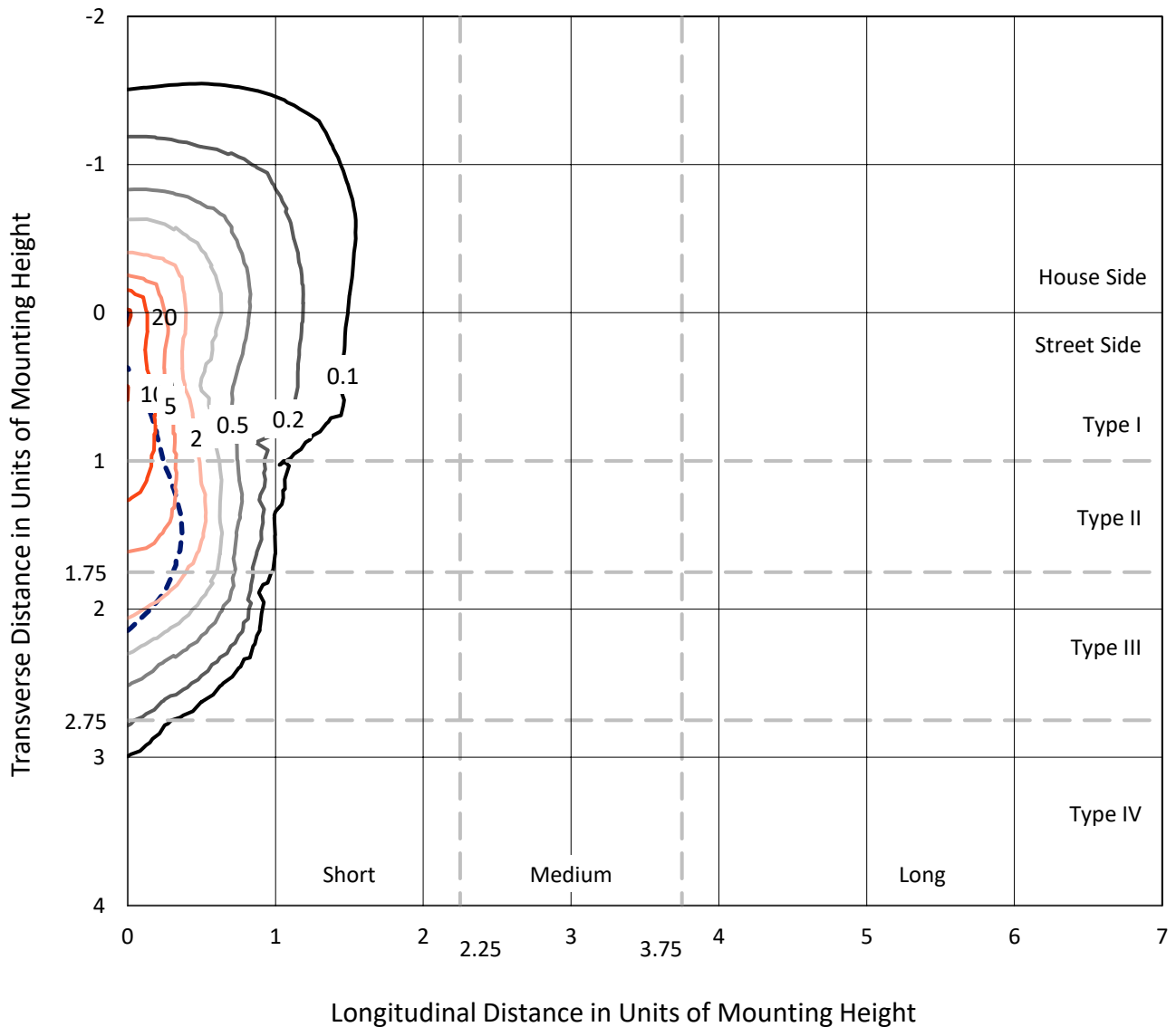
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

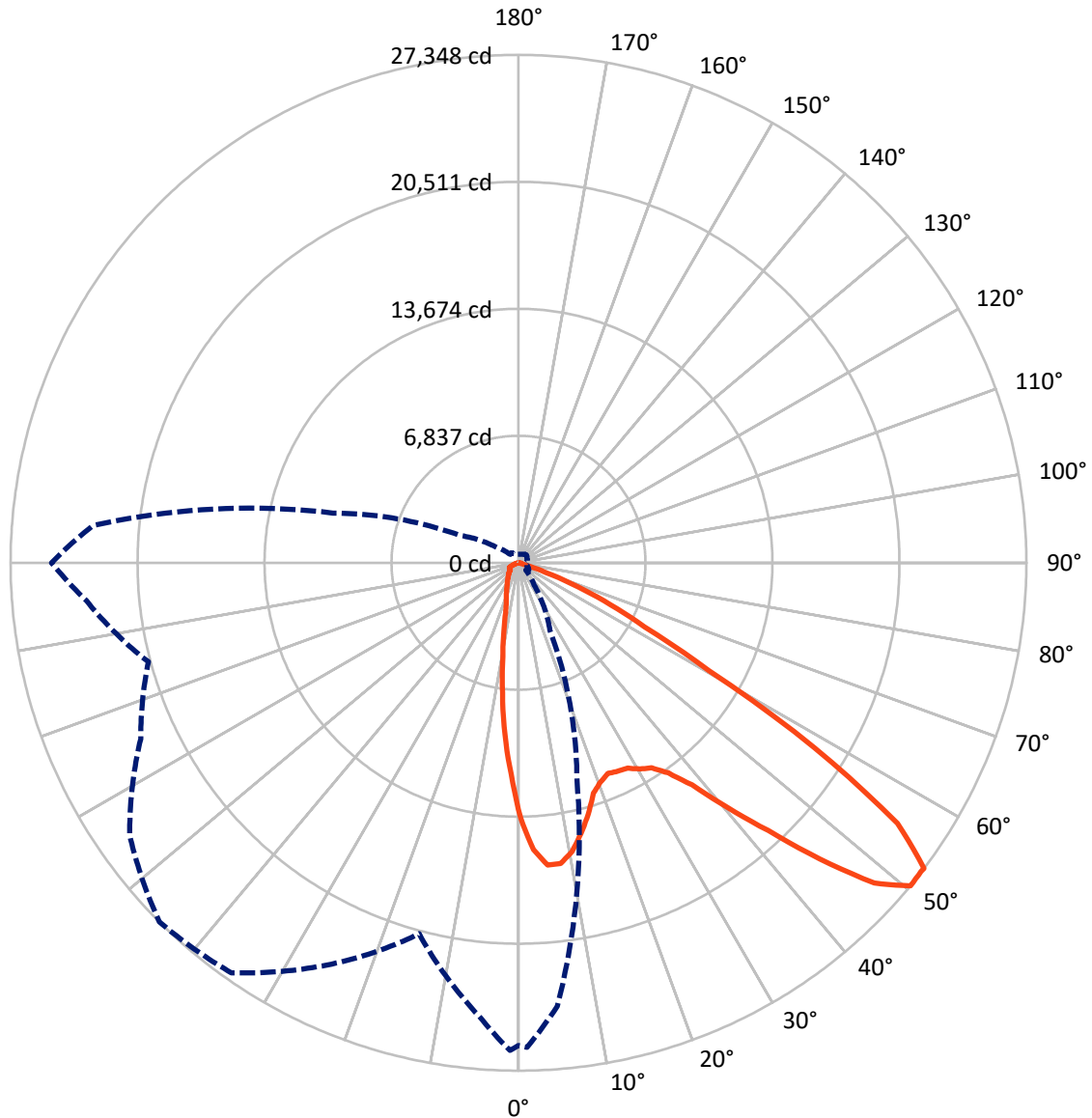
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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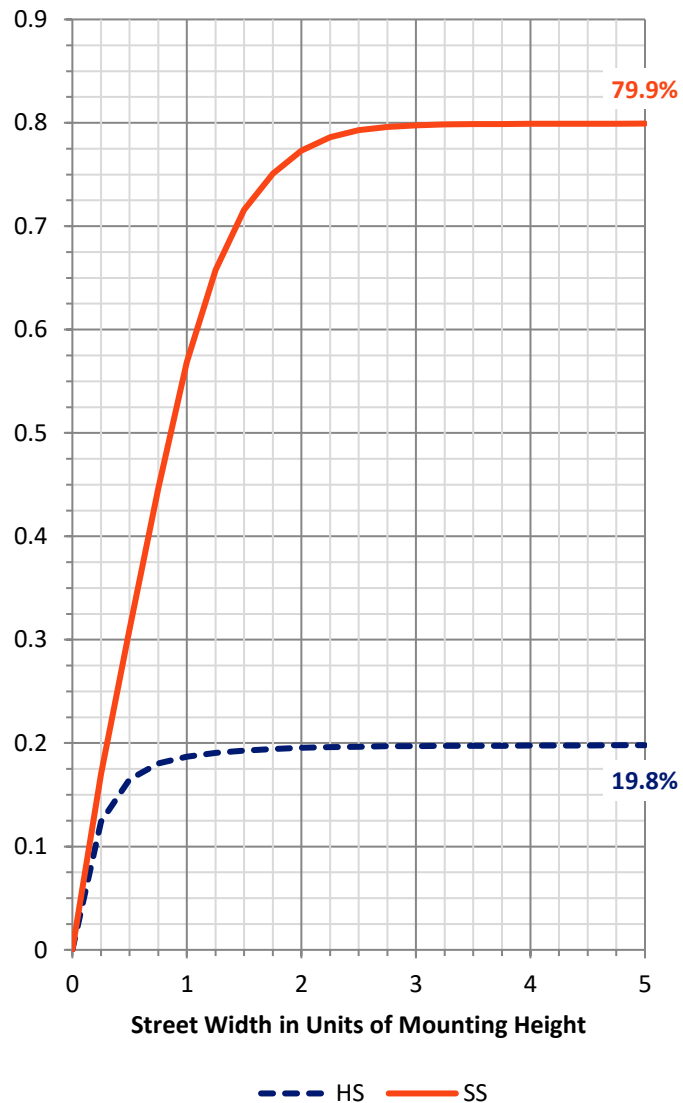
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5433.7	0.0	5433.7
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	21694.3	0.0	21694.3
	% Fixture	80.0	0.0	80.0
Total	Lumens	27128.0	0.0	27128.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1002.8	3.7
10°-20°	1993.0	7.3
20°-30°	2994.0	11.0
30°-40°	4493.9	16.6
40°-50°	6315.9	23.3
50°-60°	6812.8	25.1
60°-70°	3163.2	11.7
70°-80°	297.6	1.1
80°-90°	54.9	0.2
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°	27128.0	100.0
0°-180°	27128.0	100.0

Coefficient of Utilization



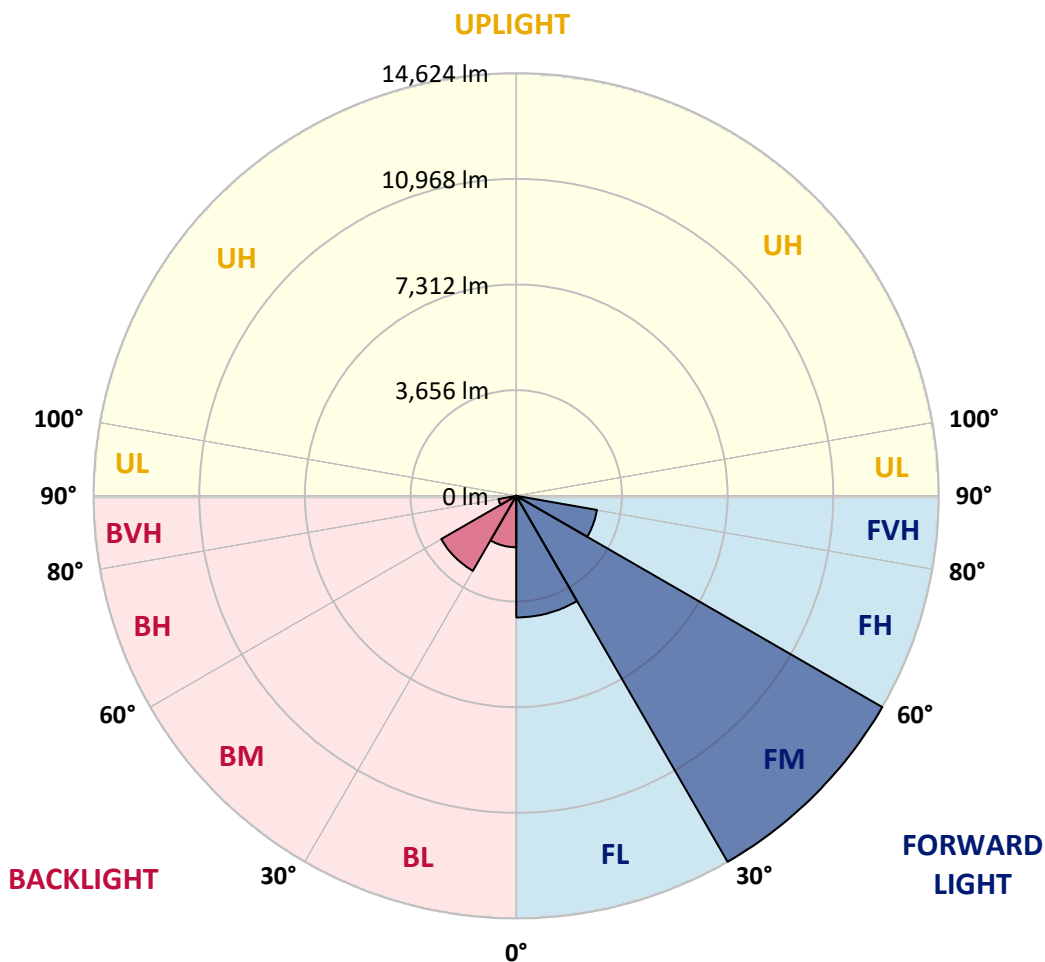
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4208.7	15.5			
FM (30°-60°)	14624.0	53.9			
FH (60°-80°)	2836.9	10.5			G2/5000
FVH (80°-90°)	24.7	0.1			G1/100
BL (0°-30°)	1781.0	6.6	B3/2500		
BM (30°-60°)	2998.6	11.1	B3/5000		
BH (60°-80°)	623.9	2.3	B2/1000		G2/1000
BVH (80°-90°)	30.1	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-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	13757.3	13757.3	13757.3	13757.3	13757.3	13757.3	13757.3	13757.3	13757.3	13757.3	13757.3
2.5°	14300.9	14080.3	13800.4	13568.9	13224.5	12530.1	12341.8	12115.7	11927.3	11674.3	11319.1
5°	13003.8	12933.8	12804.6	11932.7	11303.0	10463.3	9774.4	9483.7	9101.6	8789.4	8563.3
7.5°	12013.4	11733.5	11324.5	10447.2	9440.7	8541.8	7777.5	7330.8	6824.8	6652.6	6345.8
10°	10953.1	11017.7	10414.9	9182.3	7965.9	7239.3	6765.6	6335.0	5877.5	5576.1	5140.2
12.5°	10614.0	10404.1	9941.2	8418.0	7379.2	6701.0	6125.1	5592.3	5107.9	4623.4	4203.6
15°	10834.7	10511.8	9865.9	8256.5	6927.1	6082.1	5360.8	4639.6	4192.9	3573.9	3137.9
17.5°	11625.9	11367.5	10501.0	8428.8	6695.7	5490.0	4418.9	3676.2	2992.6	2432.8	2212.2
20°	12944.6	12578.6	11491.3	8649.5	6351.2	4774.2	3584.7	2669.7	2023.8	1786.9	1663.1
22.5°	14236.3	14037.2	12664.7	9074.7	6044.4	4139.0	2691.2	1797.7	1512.4	1469.4	1388.6
25°	16696.1	16098.6	14457.0	9844.3	5807.6	3541.6	2029.2	1447.9	1281.0	1248.7	1259.5
27.5°	18160.1	17659.5	16114.8	10355.7	5543.8	3084.1	1717.0	1329.4	1216.4	1146.4	1119.5
30°	19564.9	18983.6	16938.3	10657.1	4978.7	2599.7	1523.2	1275.6	1248.7	1146.4	1114.1
32.5°	20646.7	20076.2	18127.8	11109.2	4747.2	2287.5	1254.1	995.7	925.8	915.0	1011.9
35°	22304.5	21696.3	19145.1	11356.8	4569.6	2126.0	1087.2	888.1	807.4	775.1	780.4
37.5°	23849.2	23434.8	20087.0	11453.7	4381.2	2077.6	974.2	796.6	726.6	705.1	699.7
40°	25141.0	24215.2	20980.4	11555.9	4300.5	1986.1	904.2	726.6	678.2	645.9	645.9
42.5°	25733.1	24791.2	21981.6	11496.7	4279.0	1840.8	904.2	667.4	629.7	597.4	592.1
45°	25603.9	25221.7	22428.3	11469.8	4279.0	1695.4	823.5	651.3	597.4	554.4	543.6
47.5°	25937.6	25437.0	22988.1	11582.8	4192.9	1593.2	694.3	683.6	565.1	511.3	500.6
50°	25996.8	26093.7	23962.3	12169.5	4004.5	1464.0	543.6	672.8	543.6	462.9	452.1
52°	26384.3	25781.5	24258.3	12481.7	3805.3	1367.1	457.5	575.9	522.1	430.6	419.8
52.5°	25851.5	26244.4	24328.3	12594.7	3826.9	1302.5	441.4	565.1	511.3	430.6	403.7
55°	25254.0	25630.8	24043.0	12836.9	3509.3	1022.6	344.5	409.1	462.9	376.8	360.6
57.5°	21949.3	22331.4	20894.3	11755.1	2858.0	721.2	285.3	306.8	409.1	349.9	333.7
60°	19511.1	19236.6	17535.7	9806.7	2029.2	403.7	226.1	236.8	446.7	322.9	317.6
62.5°	17831.8	17245.1	14656.2	7573.0	1237.9	269.1	177.6	183.0	344.5	301.4	301.4
65°	13192.2	12535.5	9736.7	4580.4	608.2	188.4	134.6	145.3	215.3	258.4	258.4
67.5°	7529.9	7277.0	4704.2	2066.8	253.0	118.4	102.3	113.0	166.9	209.9	199.1
70°	3460.9	3105.6	1808.5	436.0	118.4	80.7	80.7	91.5	134.6	156.1	145.3
72.5°	1011.9	958.1	441.4	70.0	48.4	48.4	53.8	70.0	102.3	118.4	107.6
75°	75.4	48.4	32.3	21.5	21.5	32.3	43.1	70.0	102.3	113.0	91.5
77.5°	5.4	10.8	5.4	5.4	16.1	32.3	48.4	86.1	134.6	139.9	102.3
80°	5.4	5.4	0.0	5.4	16.1	32.3	53.8	96.9	150.7	161.5	86.1
82.5°	0.0	0.0	0.0	5.4	21.5	43.1	64.6	102.3	139.9	172.2	91.5
85°	0.0	0.0	0.0	5.4	32.3	59.2	75.4	26.9	16.1	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°	13757.3	13757.3	13757.3	13757.3	13757.3	13757.3	13757.3	13757.3	13757.3	13757.3	13757.3
2.5°	11572.1	11432.1	11378.3	11426.8	11410.6	11394.5	11690.5	11625.9	11615.1	11712.0	11690.5
5°	8687.1	8439.5	9117.7	8843.2	9128.5	9300.7	9333.0	9349.2	9548.3	9338.4	9612.9
7.5°	6189.7	6254.3	6248.9	6431.9	6760.2	7050.9	7223.1	7088.6	7077.8	7050.9	6932.5
10°	4946.4	4833.4	4811.8	4768.8	4871.0	5118.6	5328.5	5161.7	5043.3	5204.7	5156.3
12.5°	4042.2	3886.1	3799.9	3627.7	3633.1	3799.9	3799.9	3799.9	3918.4	4009.9	4079.8
15°	3100.2	2971.1	2971.1	2798.8	2761.2	2766.5	2852.7	2863.4	3051.8	3105.6	3132.5
17.5°	2169.1	2099.1	2179.9	2249.8	2206.8	2217.5	2249.8	2260.6	2287.5	2266.0	2319.8
20°	1668.5	1657.8	1679.3	1803.1	1894.6	1948.4	1910.7	1856.9	1824.6	1749.3	1749.3
22.5°	1415.6	1437.1	1474.8	1577.0	1695.4	1727.7	1684.7	1560.9	1464.0	1453.2	1458.6
25°	1259.5	1281.0	1340.2	1404.8	1469.4	1523.2	1480.1	1388.6	1334.8	1286.4	1286.4
27.5°	1162.6	1173.4	1205.6	1254.1	1307.9	1351.0	1334.8	1286.4	1227.2	1205.6	1157.2
30°	1087.2	1103.4	1141.1	1151.8	1200.3	1221.8	1194.9	1184.1	1146.4	1119.5	1103.4
32.5°	1049.6	1044.2	1071.1	1081.9	1087.2	1103.4	1071.1	1087.2	1081.9	1038.8	1022.6
35°	791.2	834.3	904.2	963.4	979.6	1001.1	995.7	974.2	915.0	866.6	807.4
37.5°	710.5	737.4	775.1	823.5	888.1	915.0	904.2	850.4	780.4	748.1	737.4
40°	656.6	672.8	705.1	737.4	802.0	850.4	812.7	764.3	710.5	683.6	667.4
42.5°	608.2	613.6	629.7	662.0	710.5	785.8	721.2	656.6	635.1	619.0	608.2
45°	554.4	554.4	575.9	592.1	645.9	715.9	651.3	592.1	581.3	570.5	565.1
47.5°	511.3	516.7	527.5	549.0	592.1	640.5	597.4	549.0	522.1	516.7	505.9
50°	457.5	462.9	484.4	505.9	559.8	586.7	559.8	505.9	479.0	462.9	462.9
52°	414.4	430.6	452.1	495.2	532.9	575.9	543.6	484.4	452.1	436.0	425.2
52.5°	409.1	419.8	441.4	489.8	532.9	570.5	538.2	479.0	441.4	430.6	419.8
55°	366.0	382.1	419.8	479.0	527.5	570.5	527.5	473.6	419.8	392.9	382.1
57.5°	349.9	360.6	409.1	484.4	522.1	570.5	527.5	473.6	419.8	371.4	360.6
60°	333.7	355.2	409.1	468.3	516.7	575.9	532.9	468.3	409.1	349.9	349.9
62.5°	317.6	333.7	403.7	457.5	495.2	554.4	511.3	457.5	392.9	333.7	328.3
65°	274.5	301.4	355.2	382.1	425.2	479.0	436.0	398.3	344.5	296.0	290.6
67.5°	209.9	220.7	263.7	296.0	322.9	371.4	349.9	301.4	263.7	226.1	226.1
70°	145.3	156.1	188.4	204.5	231.4	258.4	242.2	204.5	177.6	156.1	150.7
72.5°	102.3	107.6	118.4	129.2	139.9	150.7	145.3	118.4	102.3	96.9	91.5
75°	80.7	91.5	96.9	91.5	86.1	80.7	80.7	70.0	59.2	53.8	53.8
77.5°	80.7	86.1	80.7	70.0	59.2	53.8	48.4	43.1	32.3	26.9	32.3
80°	70.0	70.0	70.0	59.2	53.8	48.4	43.1	37.7	32.3	26.9	26.9
82.5°	75.4	75.4	70.0	59.2	59.2	48.4	48.4	43.1	37.7	26.9	26.9
85°	0.0	0.0	0.0	10.8	26.9	48.4	48.4	43.1	37.7	32.3	32.3
87.5°	0.0	0.0	0.0	0.0	5.4	10.8	21.5	26.9	32.3	32.3	32.3
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°	13757.3	13757.3	13757.3	13757.3	13757.3	13757.3	13757.3	13757.3	13757.3	13757.3	13757.3
2.5°	11884.3	12088.8	12476.3	12863.8	13100.7	13380.6	13886.5	14155.6	14505.5	14677.7	15016.8
5°	9575.2	10059.6	10231.9	10673.2	11146.9	11620.5	12374.0	13202.9	13891.9	14365.5	14979.1
7.5°	6986.3	7099.3	7766.7	8062.8	8837.8	9699.0	10727.0	11771.2	12643.2	13418.2	13886.5
10°	5237.0	5651.5	6071.3	6636.5	7260.8	8148.9	9133.9	10285.7	11416.0	12191.0	12783.1
12.5°	4209.0	4537.3	5097.1	5705.3	6475.0	7061.7	8052.0	9193.1	10657.1	11416.0	12196.4
15°	3186.4	3606.2	4241.3	4871.0	5683.8	6302.7	7303.9	8741.0	10624.8	11669.0	12341.8
17.5°	2362.9	2648.1	3218.7	3923.7	4752.6	5624.6	6975.5	8692.5	10985.4	12228.7	12923.0
20°	1808.5	1905.4	2266.0	2895.7	3794.6	4935.6	6442.7	8902.4	12051.1	13590.5	14295.6
22.5°	1464.0	1507.1	1647.0	2083.0	2954.9	4332.8	6189.7	9047.7	13251.4	15221.3	16163.2
25°	1275.6	1264.9	1356.4	1544.7	2309.0	3767.7	5866.8	9596.8	14720.8	17137.4	17982.5
27.5°	1162.6	1162.6	1205.6	1340.2	1916.1	3401.7	5662.2	9989.7	16200.9	18822.1	19279.6
30°	1103.4	1114.1	1237.9	1281.0	1593.2	2965.7	5323.2	10388.0	17616.5	19898.6	20528.3
32.5°	1022.6	979.6	952.7	1060.3	1340.2	2572.8	4984.1	10554.8	18762.9	21217.3	21755.5
35°	785.8	764.3	796.6	877.3	1151.8	2239.1	4607.3	10743.2	20081.6	22745.9	22853.5
37.5°	710.5	705.1	726.6	796.6	968.8	1948.4	4338.2	10694.8	21088.1	24010.7	23720.1
40°	656.6	656.6	672.8	732.0	866.6	1743.9	4058.3	10651.7	22062.3	25431.7	24581.2
42.5°	613.6	613.6	640.5	678.2	823.5	1609.3	3848.4	10592.5	22880.4	26303.6	25087.2
45°	554.4	570.5	613.6	651.3	834.3	1517.8	3692.3	10366.4	23160.3	26292.8	24845.0
47.5°	511.3	532.9	575.9	629.7	753.5	1490.9	3584.7	10167.3	23063.4	25647.0	24086.1
50°	462.9	489.8	549.0	640.5	640.5	1437.1	3471.6	10344.9	22993.4	25146.4	23359.4
52°	430.6	452.1	527.5	624.4	559.8	1324.1	3401.7	10689.4	23278.7	25081.8	23036.5
52.5°	425.2	441.4	511.3	613.6	532.9	1302.5	3353.2	10770.1	23370.2	24920.3	23257.2
55°	376.8	398.3	468.3	479.0	436.0	1071.1	3197.1	10953.1	22918.1	24602.8	23047.3
57.5°	355.2	366.0	414.4	392.9	376.8	807.4	2750.4	10667.8	20356.1	21852.4	21443.3
60°	328.3	339.1	387.5	306.8	317.6	565.1	2066.8	9263.0	16346.2	18208.5	18945.9
62.5°	317.6	312.2	366.0	247.6	269.1	409.1	1458.6	7529.9	12594.7	14989.9	16265.5
65°	279.9	274.5	263.7	209.9	231.4	317.6	871.9	4914.1	8875.5	11340.6	12040.3
67.5°	215.3	226.1	193.8	166.9	193.8	247.6	484.4	2201.4	4655.7	6803.3	7368.5
70°	150.7	161.5	156.1	145.3	172.2	204.5	279.9	753.5	1926.9	3573.9	3939.9
72.5°	91.5	113.0	118.4	123.8	150.7	177.6	199.1	242.2	511.3	1264.9	1571.6
75°	53.8	75.4	91.5	107.6	123.8	150.7	166.9	172.2	177.6	236.8	382.1
77.5°	37.7	53.8	80.7	102.3	123.8	150.7	177.6	188.4	177.6	166.9	177.6
80°	32.3	53.8	75.4	96.9	129.2	156.1	177.6	177.6	172.2	150.7	161.5
82.5°	32.3	53.8	80.7	102.3	123.8	150.7	172.2	177.6	161.5	150.7	156.1
85°	37.7	59.2	86.1	107.6	134.6	123.8	113.0	91.5	86.1	70.0	75.4
87.5°	37.7	53.8	53.8	59.2	64.6	64.6	64.6	59.2	48.4	43.1	43.1
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°	13757.3	13757.3	13757.3	13757.3	13757.3	13757.3	13757.3	13757.3	13757.3	13757.3
2.5°	15032.9	15463.5	15447.4	15458.1	15393.6	14957.6	14747.7	14214.8	14365.5	14300.9
5°	15608.8	16034.1	16400.1	16357.0	15861.8	15269.8	14392.4	13563.6	13337.5	13003.8
7.5°	15032.9	16055.6	16394.7	16346.2	15614.2	14855.3	13455.9	12627.0	12234.1	12013.4
10°	14117.9	15302.1	15721.9	15808.0	15312.8	14161.0	12874.6	11545.2	11335.3	10953.1
12.5°	13595.8	14457.0	14715.4	14946.8	14774.6	13913.4	12433.3	11157.6	10867.0	10614.0
15°	13170.6	13682.0	13789.6	14053.3	14155.6	13692.7	12664.7	11577.5	10861.6	10834.7
17.5°	13563.6	13353.6	12960.7	13041.5	13364.4	13698.1	13262.1	12406.3	11712.0	11625.9
20°	14214.8	13289.1	12401.0	12600.1	12869.2	13891.9	14166.4	13563.6	13165.3	12944.6
22.5°	14963.0	13402.1	12223.3	12320.2	12831.5	14327.8	15630.4	15296.7	14553.9	14236.3
25°	16346.2	13714.3	12363.3	12427.9	13127.6	14936.1	16954.4	17202.0	16760.7	16696.1
27.5°	17697.2	14521.6	12670.1	12524.8	13278.3	15528.1	17756.4	19085.9	18310.8	18160.1
30°	18386.1	15178.3	13127.6	12880.0	13902.6	15888.7	18240.8	20313.0	19634.9	19564.9
32.5°	19441.1	15775.7	13482.8	13165.3	14252.5	16335.5	19145.1	21653.2	20996.6	20646.7
35°	19882.4	16427.0	14263.3	13891.9	15253.6	16959.8	19607.9	22848.1	22643.6	22304.5
37.5°	20732.9	17126.7	15183.6	15162.1	16464.6	17772.6	20442.2	24473.6	24435.9	23849.2
40°	20802.8	17891.0	16636.9	17315.1	18337.7	19188.1	21174.2	24925.7	25539.3	25141.0
42.5°	20910.5	19231.2	19150.4	19710.2	20587.5	20404.5	21201.1	25033.4	25969.9	25733.1
45°	20958.9	20571.4	21707.1	22740.5	23106.5	21997.7	20948.2	24828.8	26196.0	25603.9
47.5°	20571.4	21723.2	23773.9	25770.7	25878.4	22977.3	20840.5	24618.9	26330.5	25937.6
50°	20625.2	22444.4	25560.8	27347.8	26954.9	23843.9	20673.6	24489.7	26260.5	25996.8
52°	20496.0	22460.6	25813.8	27315.5	27041.0	23364.8	20388.4	23994.6	26196.0	26384.3
52.5°	20641.4	22363.7	25550.1	27337.0	26981.8	23601.7	20350.7	24269.1	26233.6	25851.5
55°	20140.8	21211.9	24005.3	24764.2	24710.4	21421.8	19193.5	23359.4	25248.7	25254.0
57.5°	18203.1	18386.1	18827.5	18811.4	18563.8	16841.4	16416.2	21481.0	22509.0	21949.3
60°	16039.4	13461.3	12271.8	11787.4	11512.9	11233.0	14521.6	19651.0	19747.9	19511.1
62.5°	13859.6	9333.0	7750.6	7616.0	7680.6	8703.3	14037.2	18924.4	18343.1	17831.8
65°	11184.5	6803.3	5629.9	5452.3	6082.1	7185.5	11362.2	14510.8	13617.4	13192.2
67.5°	7024.0	4962.5	3805.3	3471.6	4230.5	4946.4	7465.3	9117.7	8116.6	7529.9
70°	4165.9	2771.9	1722.4	1544.7	1738.5	2637.4	4182.1	4548.1	3762.3	3460.9
72.5°	1641.6	1017.3	479.0	409.1	425.2	925.8	1539.4	1501.7	1135.7	1011.9
75°	441.4	306.8	166.9	134.6	113.0	172.2	247.6	161.5	59.2	75.4
77.5°	204.5	183.0	145.3	113.0	86.1	64.6	32.3	10.8	10.8	5.4
80°	177.6	156.1	134.6	113.0	86.1	53.8	26.9	5.4	5.4	5.4
82.5°	166.9	145.3	123.8	102.3	80.7	53.8	26.9	5.4	0.0	0.0
85°	70.0	91.5	102.3	96.9	86.1	53.8	26.9	5.4	0.0	0.0
87.5°	37.7	32.3	26.9	21.5	16.1	10.8	10.8	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)