

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: P651518

Luminaire Tested: **GALN-SA7D-840-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651518
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-840-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 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: 25051.7 lumens
Efficiency: N/A
Efficacy: 57.9 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

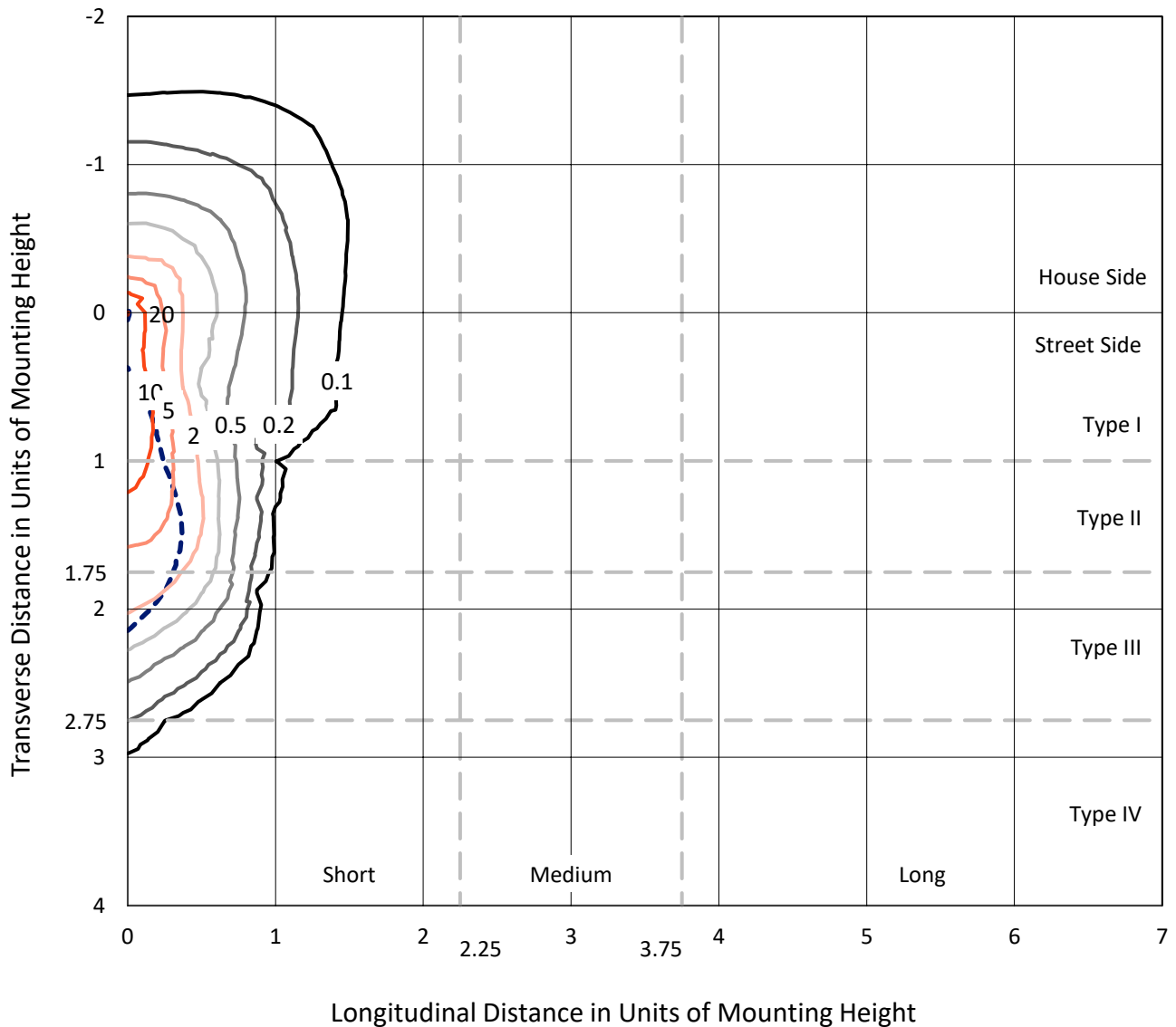




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Iso-Footcandle Lines of Horizontal Illumination

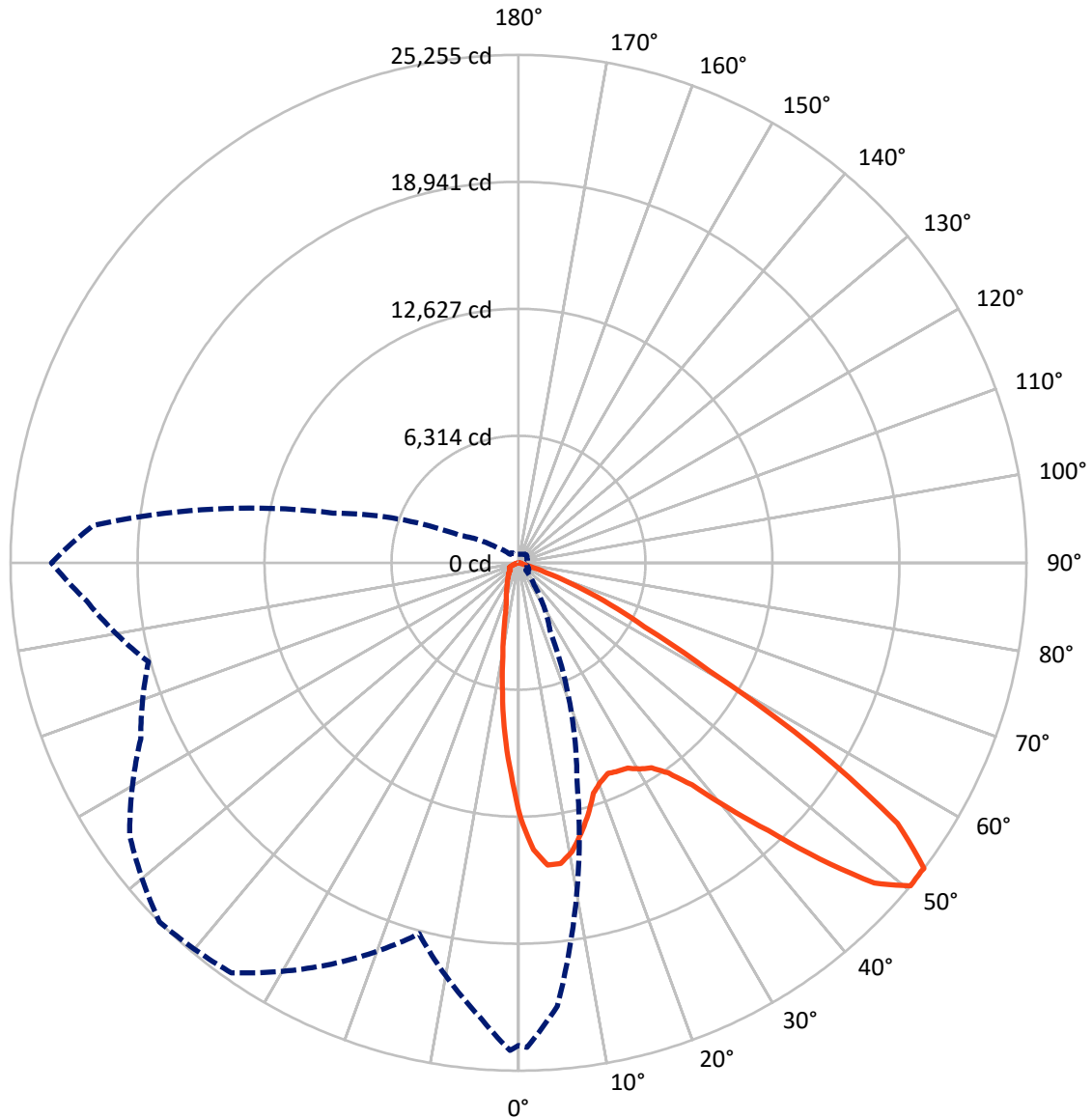
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.3 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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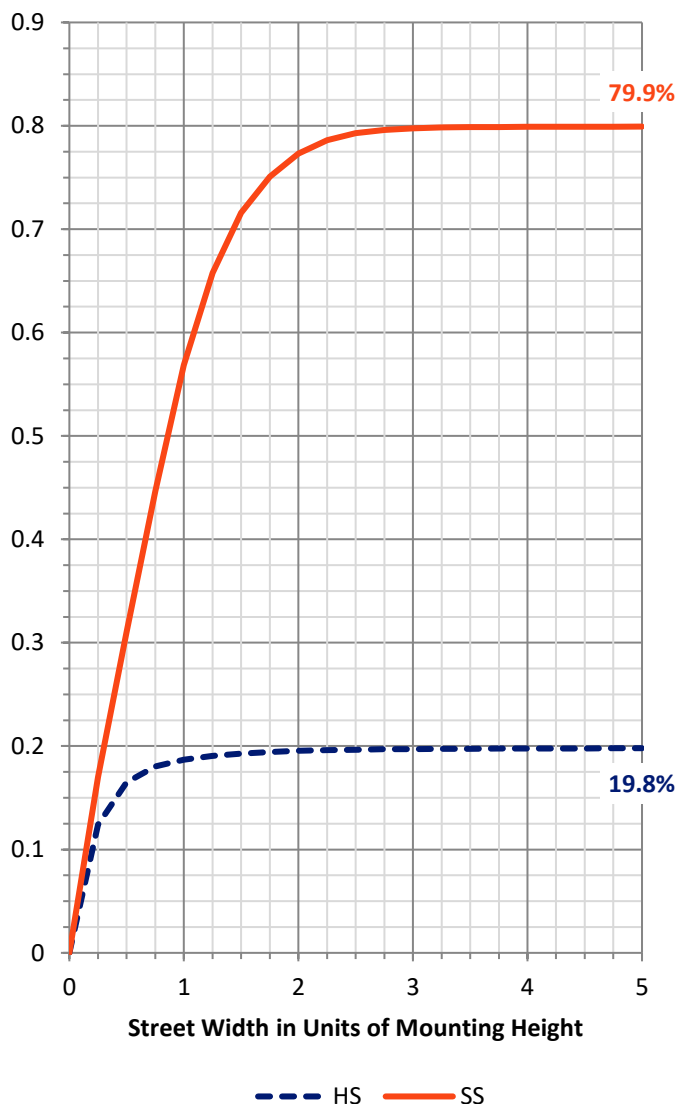
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5017.9	0.0	5017.9
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	20033.9	0.0	20033.9
	% Fixture	80.0	0.0	80.0
Total	Lumens	25051.7	0.0	25051.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	926.0	3.7
10°-20°	1840.4	7.3
20°-30°	2764.9	11.0
30°-40°	4150.0	16.6
40°-50°	5832.5	23.3
50°-60°	6291.4	25.1
60°-70°	2921.1	11.7
70°-80°	274.8	1.1
80°-90°	50.7	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°	25051.7	100.0
0°-180°	25051.7	100.0

Coefficient of Utilization



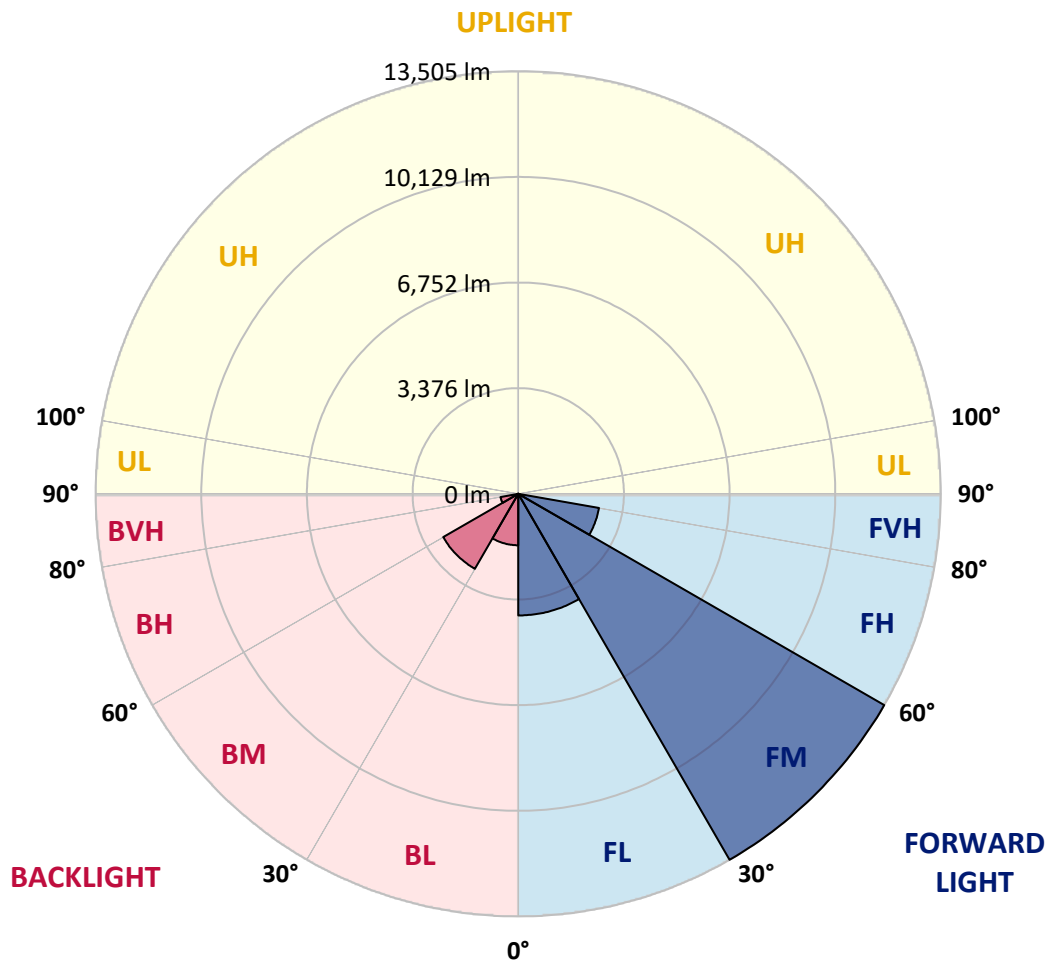
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3886.6	15.5			
FM (30°-60°)	13504.7	53.9			
FH (60°-80°)	2619.7	10.5			G2/5000
FVH (80°-90°)	22.8	0.1			G1/100
BL (0°-30°)	1644.7	6.6	B3/2500		
BM (30°-60°)	2769.1	11.1	B3/5000		
BH (60°-80°)	576.2	2.3	B2/1000		G2/1000
BVH (80°-90°)	27.8	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°	12704.4	12704.4	12704.4	12704.4	12704.4	12704.4	12704.4	12704.4	12704.4	12704.4	12704.4
2.5°	13206.4	13002.6	12744.2	12530.4	12212.3	11571.2	11397.1	11188.4	11014.4	10780.9	10452.8
5°	12008.6	11943.9	11824.6	11019.4	10437.9	9662.5	9026.3	8757.8	8405.0	8116.7	7907.9
7.5°	11094.0	10835.5	10457.8	9647.5	8718.1	7888.1	7182.2	6769.7	6302.5	6143.4	5860.1
10°	10114.8	10174.4	9617.8	8479.6	7356.2	6685.2	6247.8	5850.2	5427.7	5149.4	4746.8
12.5°	9801.7	9607.8	9180.4	7773.7	6814.5	6188.2	5656.3	5164.2	4716.9	4269.6	3881.9
15°	10005.5	9707.2	9110.8	7624.6	6396.9	5616.5	4950.5	4284.5	3872.0	3300.3	2897.7
17.5°	10736.1	10497.5	9697.2	7783.7	6183.2	5069.8	4080.7	3394.8	2763.5	2246.6	2042.9
20°	11953.8	11615.9	10611.8	7987.5	5865.0	4408.8	3310.3	2465.3	1868.9	1650.2	1535.8
22.5°	13146.8	12962.8	11695.4	8380.1	5581.8	3822.3	2485.2	1660.1	1396.6	1357.0	1282.4
25°	15418.2	14866.5	13350.5	9090.9	5363.1	3270.6	1873.8	1337.0	1183.0	1153.1	1163.1
27.5°	16770.2	16307.9	14881.4	9563.1	5119.5	2848.0	1585.5	1227.7	1123.3	1058.7	1033.8
30°	18067.5	17530.6	15641.9	9841.4	4597.7	2400.7	1406.7	1178.0	1153.1	1058.7	1028.9
32.5°	19066.5	18539.7	16740.4	10258.9	4383.9	2112.4	1158.1	919.5	854.9	845.0	934.4
35°	20597.4	20035.7	17679.8	10487.6	4219.9	1963.3	1004.0	820.1	745.5	715.8	720.7
37.5°	22023.9	21641.2	18549.6	10577.0	4045.9	1918.6	899.6	735.6	671.0	651.1	646.1
40°	23216.8	22361.9	19374.7	10671.4	3971.4	1834.1	835.0	671.0	626.3	596.4	596.4
42.5°	23763.5	22893.7	20299.1	10616.8	3951.4	1699.9	835.0	616.4	581.6	551.7	546.7
45°	23644.2	23291.3	20711.7	10592.0	3951.4	1565.7	760.4	601.4	551.7	511.9	502.0
47.5°	23952.4	23490.1	21228.6	10696.3	3872.0	1471.2	641.2	631.3	521.9	472.2	462.2
50°	24007.1	24096.6	22128.3	11238.1	3698.0	1352.0	502.0	621.3	502.0	427.5	417.6
52°	24364.9	23808.3	22401.6	11526.4	3514.1	1262.5	422.5	531.8	482.1	397.6	387.7
52.5°	23872.9	24235.8	22466.2	11630.8	3534.0	1202.8	407.5	521.9	472.2	397.6	372.8
55°	23321.2	23669.1	22202.8	11854.4	3240.7	944.4	318.1	377.8	427.5	347.9	333.0
57.5°	20269.4	20622.2	19295.1	10855.4	2639.3	666.1	263.4	283.3	377.8	323.1	308.1
60°	18017.8	17764.3	16193.6	9056.1	1873.8	372.8	208.7	218.7	412.5	298.2	293.3
62.5°	16466.9	15925.2	13534.5	6993.3	1143.2	248.5	164.0	169.0	318.1	278.4	278.4
65°	12182.5	11576.1	8991.5	4229.8	561.6	174.0	124.3	134.2	198.8	238.6	238.6
67.5°	6953.6	6720.0	4344.1	1908.6	233.6	109.3	94.4	104.4	154.1	193.9	183.9
70°	3196.0	2867.9	1670.1	402.6	109.3	74.6	74.6	84.5	124.3	144.1	134.2
72.5°	934.4	884.7	407.5	64.6	44.7	44.7	49.7	64.6	94.4	109.3	99.4
75°	69.6	44.7	29.9	19.8	19.8	29.9	39.8	64.6	94.4	104.4	84.5
77.5°	5.0	9.9	5.0	5.0	14.9	29.9	44.7	79.6	124.3	129.3	94.4
80°	5.0	5.0	0.0	5.0	14.9	29.9	49.7	89.5	139.2	149.1	79.6
82.5°	0.0	0.0	0.0	5.0	19.8	39.8	59.6	94.4	129.3	159.0	84.5
85°	0.0	0.0	0.0	5.0	29.9	54.7	69.6	24.9	14.9	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°	12704.4	12704.4	12704.4	12704.4	12704.4	12704.4	12704.4	12704.4	12704.4	12704.4	12704.4
2.5°	10686.4	10557.2	10507.5	10552.2	10537.3	10522.3	10795.7	10736.1	10726.1	10815.6	10795.7
5°	8022.2	7793.6	8419.8	8166.4	8429.8	8588.9	8618.7	8633.6	8817.5	8623.7	8877.2
7.5°	5715.9	5775.7	5770.7	5939.6	6242.8	6511.3	6670.3	6546.0	6536.1	6511.3	6401.9
10°	4567.8	4463.4	4443.5	4403.8	4498.3	4726.8	4920.7	4766.6	4657.3	4806.4	4761.7
12.5°	3732.8	3588.6	3509.1	3350.0	3355.0	3509.1	3509.1	3509.1	3618.5	3702.9	3767.6
15°	2862.9	2743.7	2743.7	2584.6	2549.8	2554.8	2634.3	2644.3	2818.2	2867.9	2892.8
17.5°	2003.1	1938.4	2013.0	2077.6	2037.8	2047.8	2077.6	2087.6	2112.4	2092.6	2142.3
20°	1540.8	1530.9	1550.8	1665.1	1749.6	1799.3	1764.5	1714.8	1684.9	1615.4	1615.4
22.5°	1307.3	1327.1	1361.9	1456.4	1565.7	1595.5	1555.8	1441.4	1352.0	1342.0	1346.9
25°	1163.1	1183.0	1237.6	1297.2	1357.0	1406.7	1366.9	1282.4	1232.7	1187.9	1187.9
27.5°	1073.6	1083.5	1113.4	1158.1	1207.8	1247.5	1232.7	1187.9	1133.2	1113.4	1068.7
30°	1004.0	1019.0	1053.7	1063.7	1108.4	1128.3	1103.4	1093.5	1058.7	1033.8	1019.0
32.5°	969.3	964.3	989.1	999.0	1004.0	1019.0	989.1	1004.0	999.0	959.3	944.4
35°	730.7	770.4	835.0	889.7	904.6	924.5	919.5	899.6	845.0	800.2	745.5
37.5°	656.1	681.0	715.8	760.4	820.1	845.0	835.0	785.3	720.7	690.9	681.0
40°	606.4	621.3	651.1	681.0	740.6	785.3	750.5	705.8	656.1	631.3	616.4
42.5°	561.6	566.7	581.6	611.3	656.1	725.7	666.1	606.4	586.5	571.6	561.6
45°	511.9	511.9	531.8	546.7	596.4	661.0	601.4	546.7	536.8	526.9	521.9
47.5°	472.2	477.2	487.1	507.0	546.7	591.5	551.7	507.0	482.1	477.2	467.3
50°	422.5	427.5	447.3	467.3	517.0	541.8	517.0	467.3	442.4	427.5	427.5
52°	382.7	397.6	417.6	457.3	492.1	531.8	502.0	447.3	417.6	402.6	392.7
52.5°	377.8	387.7	407.5	452.3	492.1	526.9	497.0	442.4	407.5	397.6	387.7
55°	338.0	352.9	387.7	442.4	487.1	526.9	487.1	437.4	387.7	362.8	352.9
57.5°	323.1	333.0	377.8	447.3	482.1	526.9	487.1	437.4	387.7	343.0	333.0
60°	308.1	328.1	377.8	432.4	477.2	531.8	492.1	432.4	377.8	323.1	323.1
62.5°	293.3	308.1	372.8	422.5	457.3	511.9	472.2	422.5	362.8	308.1	303.2
65°	253.5	278.4	328.1	352.9	392.7	442.4	402.6	367.8	318.1	273.4	268.4
67.5°	193.9	203.8	243.6	273.4	298.2	343.0	323.1	278.4	243.6	208.7	208.7
70°	134.2	144.1	174.0	188.9	213.7	238.6	223.7	188.9	164.0	144.1	139.2
72.5°	94.4	99.4	109.3	119.3	129.3	139.2	134.2	109.3	94.4	89.5	84.5
75°	74.6	84.5	89.5	84.5	79.6	74.6	74.6	64.6	54.7	49.7	49.7
77.5°	74.6	79.6	74.6	64.6	54.7	49.7	44.7	39.8	29.9	24.9	29.9
80°	64.6	64.6	64.6	54.7	49.7	44.7	39.8	34.8	29.9	24.9	24.9
82.5°	69.6	69.6	64.6	54.7	54.7	44.7	44.7	39.8	34.8	24.9	24.9
85°	0.0	0.0	0.0	9.9	24.9	44.7	44.7	39.8	34.8	29.9	29.9
87.5°	0.0	0.0	0.0	0.0	5.0	9.9	19.8	24.9	29.9	29.9	29.9
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	12704.4	12704.4	12704.4	12704.4	12704.4	12704.4	12704.4	12704.4	12704.4	12704.4	12704.4
2.5°	10974.6	11163.5	11521.4	11879.3	12098.0	12356.5	12823.7	13072.2	13395.3	13554.3	13867.4
5°	8842.4	9289.7	9448.7	9856.4	10293.8	10731.2	11427.0	12192.4	12828.6	13266.0	13832.7
7.5°	6451.6	6556.0	7172.3	7445.7	8161.4	8956.6	9906.1	10870.3	11675.5	12391.2	12823.7
10°	4836.2	5218.9	5606.6	6128.5	6705.1	7525.2	8434.8	9498.4	10542.3	11258.0	11804.7
12.5°	3886.8	4190.0	4707.0	5268.6	5979.4	6521.2	7435.7	8489.5	9841.4	10542.3	11262.9
15°	2942.5	3330.2	3916.7	4498.3	5248.8	5820.4	6744.8	8071.9	9811.6	10775.8	11397.1
17.5°	2182.0	2445.5	2972.3	3623.4	4388.8	5194.1	6441.6	8027.2	10144.6	11292.8	11934.0
20°	1670.1	1759.5	2092.6	2674.0	3504.1	4557.9	5949.6	8221.0	11128.8	12550.3	13201.4
22.5°	1352.0	1391.7	1520.9	1923.5	2728.8	4001.1	5715.9	8355.3	12237.1	14056.3	14926.2
25°	1178.0	1168.1	1252.6	1426.5	2132.3	3479.3	5417.7	8862.2	13594.1	15825.8	16606.1
27.5°	1073.6	1073.6	1113.4	1237.6	1769.5	3141.3	5228.8	9225.1	14961.0	17381.5	17804.1
30°	1019.0	1028.9	1143.2	1183.0	1471.2	2738.7	4915.7	9592.9	16268.1	18375.6	18957.1
32.5°	944.4	904.6	879.8	979.2	1237.6	2375.8	4602.6	9746.9	17326.9	19593.4	20090.4
35°	725.7	705.8	735.6	810.1	1063.7	2067.7	4254.7	9920.9	18544.6	21005.0	21104.4
37.5°	656.1	651.1	671.0	735.6	894.7	1799.3	4006.2	9876.2	19474.1	22173.0	21904.6
40°	606.4	606.4	621.3	676.0	800.2	1610.4	3747.7	9836.4	20373.7	23485.2	22699.9
42.5°	566.7	566.7	591.5	626.3	760.4	1486.1	3553.8	9781.8	21129.2	24290.4	23167.1
45°	511.9	526.9	566.7	601.4	770.4	1401.7	3409.7	9573.0	21387.7	24280.4	22943.4
47.5°	472.2	492.1	531.8	581.6	695.8	1376.8	3310.3	9389.1	21298.2	23684.0	22242.6
50°	427.5	452.3	507.0	591.5	591.5	1327.1	3205.9	9553.2	21233.6	23221.8	21571.6
52°	397.6	417.6	487.1	576.6	517.0	1222.7	3141.3	9871.2	21497.1	23162.1	21273.3
52.5°	392.7	407.5	472.2	566.7	492.1	1202.8	3096.6	9945.8	21581.5	23013.0	21477.1
55°	347.9	367.8	432.4	442.4	402.6	989.1	2952.4	10114.8	21164.0	22719.8	21283.3
57.5°	328.1	338.0	382.7	362.8	347.9	745.5	2539.9	9851.4	18798.1	20179.9	19802.1
60°	303.2	313.1	357.8	283.3	293.3	521.9	1908.6	8554.1	15095.1	16814.9	17495.8
62.5°	293.3	288.3	338.0	228.7	248.5	377.8	1346.9	6953.6	11630.8	13842.6	15020.6
65°	258.4	253.5	243.6	193.9	213.7	293.3	805.2	4538.0	8196.2	10472.6	11118.8
67.5°	198.8	208.7	179.0	154.1	179.0	228.7	447.3	2032.9	4299.4	6282.6	6804.5
70°	139.2	149.1	144.1	134.2	159.0	188.9	258.4	695.8	1779.4	3300.3	3638.3
72.5°	84.5	104.4	109.3	114.3	139.2	164.0	183.9	223.7	472.2	1168.1	1451.4
75°	49.7	69.6	84.5	99.4	114.3	139.2	154.1	159.0	164.0	218.7	352.9
77.5°	34.8	49.7	74.6	94.4	114.3	139.2	164.0	174.0	164.0	154.1	164.0
80°	29.9	49.7	69.6	89.5	119.3	144.1	164.0	164.0	159.0	139.2	149.1
82.5°	29.9	49.7	74.6	94.4	114.3	139.2	159.0	164.0	149.1	139.2	144.1
85°	34.8	54.7	79.6	99.4	124.3	114.3	104.4	84.5	79.6	64.6	69.6
87.5°	34.8	49.7	49.7	54.7	59.6	59.6	59.6	54.7	44.7	39.8	39.8
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°	12704.4	12704.4	12704.4	12704.4	12704.4	12704.4	12704.4	12704.4	12704.4	12704.4
2.5°	13882.4	14280.0	14265.0	14275.0	14215.3	13812.8	13618.9	13126.8	13266.0	13206.4
5°	14414.2	14806.9	15144.8	15105.1	14647.8	14101.0	13290.9	12525.4	12316.7	12008.6
7.5°	13882.4	14826.7	15139.9	15095.1	14419.2	13718.3	12426.0	11660.5	11297.7	11094.0
10°	13037.4	14130.9	14518.6	14598.1	14140.8	13077.1	11889.2	10661.5	10467.7	10114.8
12.5°	12555.3	13350.5	13589.1	13802.8	13643.8	12848.5	11481.7	10303.7	10035.2	9801.7
15°	12162.6	12634.8	12734.2	12977.7	13072.2	12644.7	11695.4	10691.4	10030.3	10005.5
17.5°	12525.4	12331.6	11968.8	12043.3	12341.5	12649.7	12247.1	11456.8	10815.6	10736.1
20°	13126.8	12272.0	11451.8	11635.7	11884.3	12828.6	13082.1	12525.4	12157.7	11953.8
22.5°	13817.7	12376.3	11287.8	11377.3	11849.4	13231.2	14434.1	14125.9	13440.0	13146.8
25°	15095.1	12664.6	11417.0	11476.7	12122.8	13792.9	15656.8	15885.4	15477.8	15418.2
27.5°	16342.7	13410.2	11700.3	11566.2	12262.0	14339.6	16397.4	17625.1	16909.3	16770.2
30°	16978.9	14016.5	12122.8	11894.2	12838.5	14672.7	16844.7	18758.3	18132.0	18067.5
32.5°	17953.2	14568.3	12450.9	12157.7	13161.6	15085.2	17679.8	19996.0	19389.6	19066.5
35°	18360.7	15169.7	13171.6	12828.6	14086.2	15661.8	18107.2	21099.4	20910.5	20597.4
37.5°	19146.0	15815.8	14021.6	14001.6	15204.5	16412.3	18877.6	22600.4	22565.7	22023.9
40°	19210.6	16521.6	15363.6	15989.8	16934.2	17719.5	19553.6	23018.0	23584.6	23216.8
42.5°	19310.0	17759.3	17684.7	18201.7	19011.8	18842.9	19578.5	23117.4	23982.2	23763.5
45°	19354.8	18996.9	20045.7	21000.0	21338.0	20314.1	19344.9	22928.5	24191.0	23644.2
47.5°	18996.9	20060.6	21954.3	23798.4	23897.8	21218.7	19245.4	22734.7	24315.2	23952.4
50°	19046.6	20726.6	23604.5	25254.6	24891.8	22018.9	19091.4	22615.4	24250.7	24007.1
52°	18927.3	20741.5	23838.1	25224.9	24971.4	21576.5	18827.9	22158.1	24191.0	24364.9
52.5°	19061.5	20652.1	23594.5	25244.7	24916.6	21795.3	18793.2	22411.6	24225.8	23872.9
55°	18599.3	19588.4	22168.0	22868.9	22819.2	19782.3	17724.5	21571.6	23316.2	23321.2
57.5°	16809.9	16978.9	17386.5	17371.6	17142.9	15552.4	15159.8	19836.9	20786.2	20269.4
60°	14811.9	12431.0	11332.6	10885.2	10631.8	10373.2	13410.2	18147.0	18236.4	18017.8
62.5°	12798.8	8618.7	7157.4	7033.1	7092.7	8037.2	12962.8	17476.0	16939.2	16466.9
65°	10328.5	6282.6	5199.1	5035.1	5616.5	6635.5	10492.6	13400.2	12575.1	12182.5
67.5°	6486.4	4582.7	3514.1	3205.9	3906.8	4567.8	6893.9	8419.8	7495.4	6953.6
70°	3847.1	2559.8	1590.5	1426.5	1605.5	2435.5	3862.0	4200.0	3474.3	3196.0
72.5°	1516.0	939.4	442.4	377.8	392.7	854.9	1421.5	1386.7	1048.7	934.4
75°	407.5	283.3	154.1	124.3	104.4	159.0	228.7	149.1	54.7	69.6
77.5°	188.9	169.0	134.2	104.4	79.6	59.6	29.9	9.9	9.9	5.0
80°	164.0	144.1	124.3	104.4	79.6	49.7	24.9	5.0	5.0	5.0
82.5°	154.1	134.2	114.3	94.4	74.6	49.7	24.9	5.0	0.0	0.0
85°	64.6	84.5	94.4	89.5	79.6	49.7	24.9	5.0	0.0	0.0
87.5°	34.8	29.9	24.9	19.8	14.9	9.9	9.9	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)