

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: P457395

Luminaire Tested: **GALN-SA8D-727-U-SLL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457395  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA8D-727-U-SLL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 45032 lumens  
Efficiency: N/A  
Efficacy: 91.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

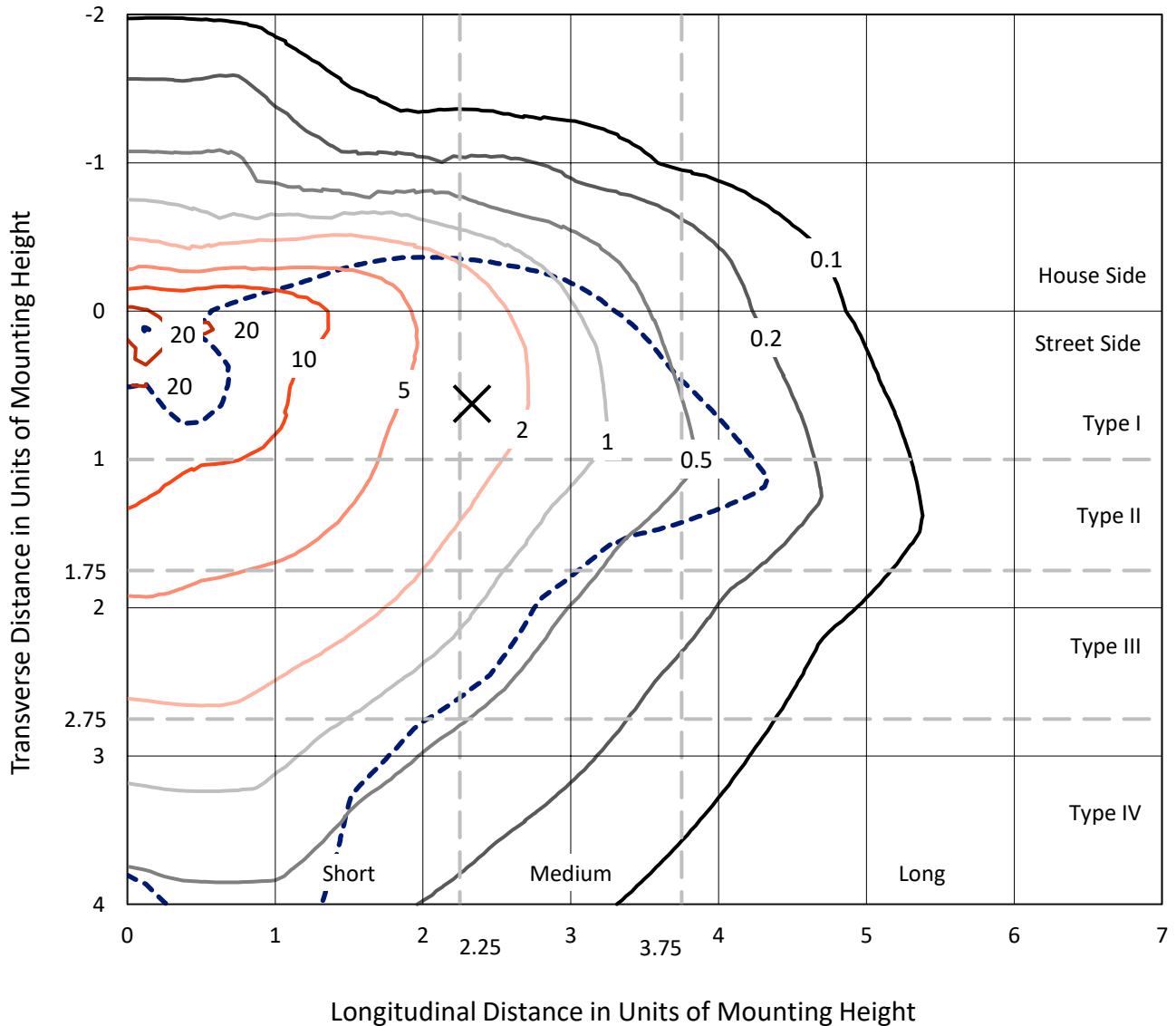
Input Watts (W): 493  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

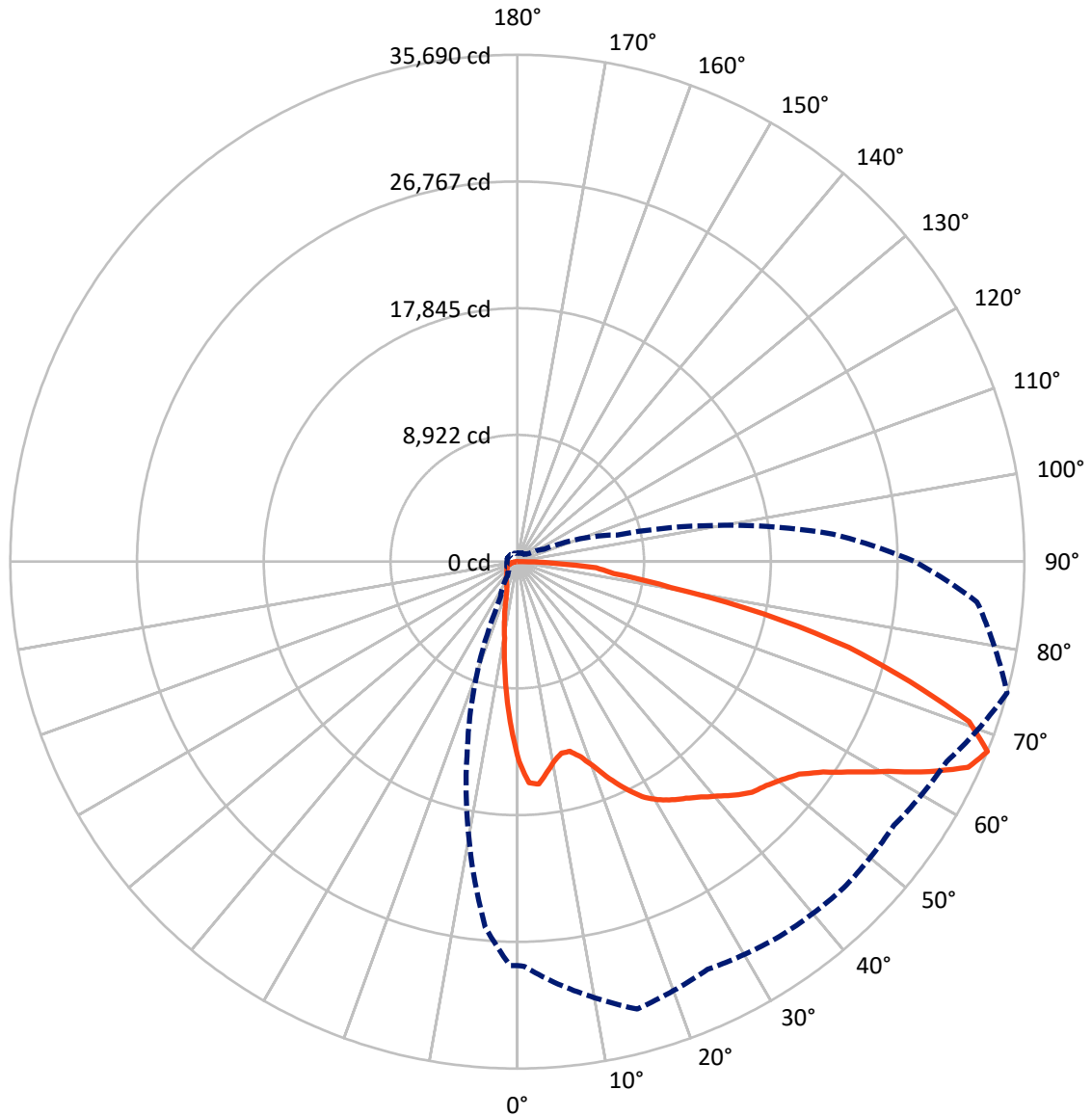
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 27.7 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7611.4	0.0	7611.4
	% Fixture	16.9	0.0	16.9
<b>Street Side</b>	Lumens	37420.6	0.0	37420.6
	% Fixture	83.1	0.0	83.1
<b>Total</b>	Lumens	45032.0	0.0	45032.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1067.1	2.4
10°-20°	2225.5	4.9
20°-30°	3202.5	7.1
30°-40°	4612.5	10.2
40°-50°	6479.3	14.4
50°-60°	9036.3	20.1
60°-70°	10743.6	23.9
70°-80°	6327.4	14.1
80°-90°	1338.0	3.0
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°	45032.0	100.0
0°-180°	45032.0	100.0



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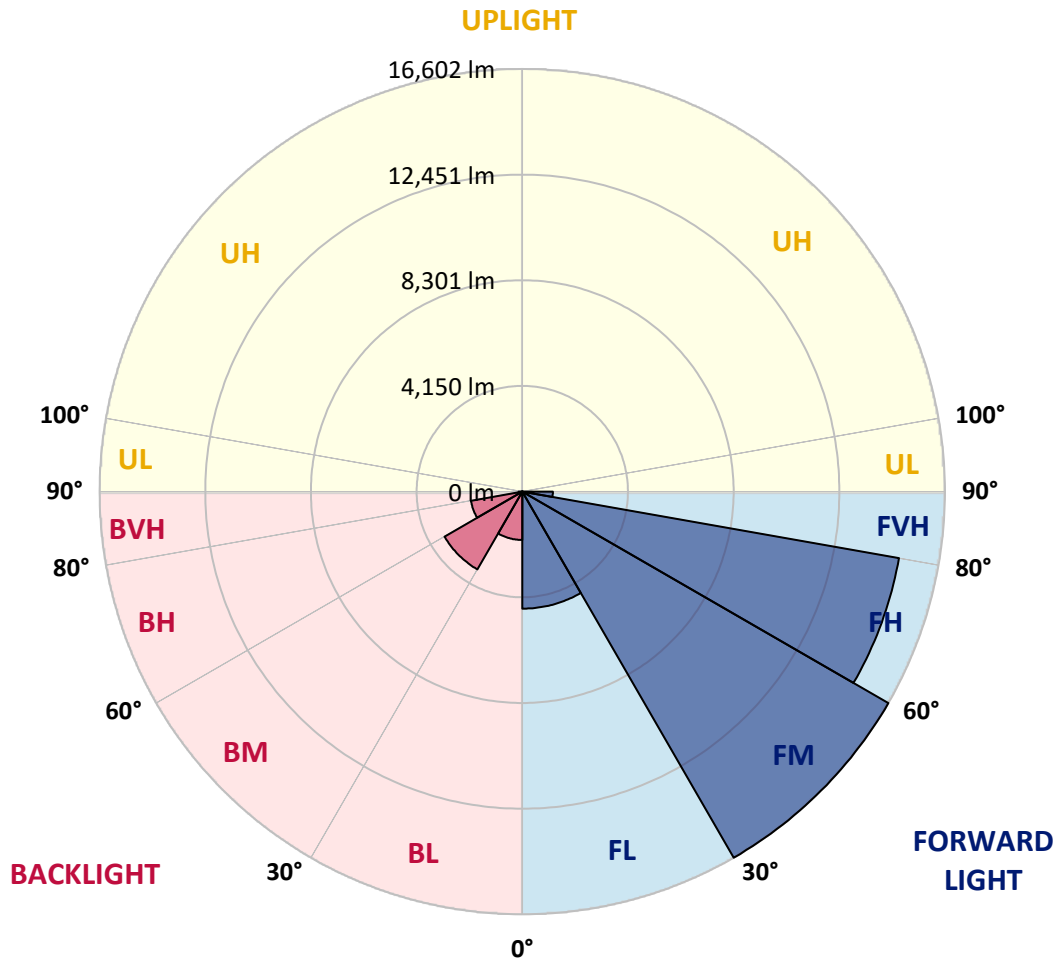
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4596.5	10.2			
FM	(30°-60°)	16601.6	36.9			
FH	(60°-80°)	15022.9	33.4			G5
FVH	(80°-90°)	1199.6	2.7			G5
BL	(0°-30°)	1898.5	4.2	B3/2500		
BM	(30°-60°)	3526.4	7.8	B3/5000		
BH	(60°-80°)	2048.1	4.5	B3/2500		G3/2500
BVH	(80°-90°)	138.4	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	14069.1	14069.1	14069.1	14069.1	14069.1	14069.1	14069.1	14069.1	14069.1	14069.1	14069.1
2.5°	15169.3	15189.5	15319.5	15697.7	15957.6	16052.9	16119.4	15995.2	15873.9	15579.3	15134.6
5°	15123.1	15241.5	15579.3	16428.3	17098.3	17387.1	17473.7	17101.2	16486.1	15729.5	14819.9
7.5°	14239.4	14398.3	14918.1	16341.7	17522.8	18198.5	18109.0	17436.2	16327.3	14978.7	13708.1
10°	13191.2	13367.3	13994.0	15715.1	17236.9	18166.8	18166.8	17346.6	15873.9	14271.2	12807.1
12.5°	12359.5	12544.3	13260.5	15071.1	16642.0	17522.8	17670.1	16965.5	15547.6	13823.6	12215.1
15°	12085.2	12264.2	13035.3	14681.3	16012.5	16549.6	16598.7	16367.7	15388.8	13855.4	12189.1
17.5°	12425.9	12657.0	13436.6	14796.8	15435.0	15466.7	15504.3	15686.2	15406.1	14435.8	12714.7
20°	13410.7	13659.0	14473.3	15169.3	14929.6	14600.4	14620.6	15088.4	15611.1	15394.5	13970.9
22.5°	14831.4	15048.0	15882.6	15824.8	14715.9	14037.3	13895.8	14548.4	15914.3	16590.1	15307.9
25°	16364.8	16618.9	17577.7	16798.0	14776.6	13702.3	13612.8	14230.8	16229.1	17707.6	16852.8
27.5°	18120.6	18368.9	19125.5	17779.8	15094.2	13676.3	13569.5	14201.9	16512.1	18741.4	18328.5
30°	19425.8	19653.9	20168.0	18605.7	15484.1	13849.6	13716.8	14430.0	16754.7	19448.9	19766.6
32.5°	20451.0	20687.8	20967.9	19119.7	15998.1	14164.4	13918.9	14845.9	17072.3	19988.9	20832.1
35°	21519.4	21799.5	21779.3	19576.0	16477.4	14528.2	14288.5	15446.5	17571.9	20459.6	22183.6
37.5°	22873.8	22986.4	22842.0	19986.0	17052.1	15183.7	15050.9	16338.8	18282.3	21028.5	23763.2
40°	24248.3	24473.6	23731.4	20482.7	17750.9	16416.8	16402.4	17658.5	19125.5	21695.6	25293.7
42.5°	25426.5	25617.1	24563.1	20915.9	18597.0	17921.3	18031.0	19428.7	20231.5	22469.5	26523.9
45°	26313.1	26483.5	25331.2	21334.6	19711.7	19659.7	20306.6	21325.9	21626.3	23165.4	27245.8
47.5°	27066.8	27231.4	25865.5	21969.9	21089.2	21736.0	22862.2	23304.1	22818.9	23563.9	28054.4
50°	27702.1	27751.2	26232.2	22726.5	22798.7	24280.1	25371.7	25657.6	23997.1	24135.7	28756.1
52.5°	28363.4	28299.8	26864.6	23679.5	24646.8	26694.3	27488.4	27785.8	25126.2	24840.3	29778.4
55°	29844.8	29905.4	28282.5	24880.8	26515.2	29065.1	30110.5	29824.6	26376.6	26136.9	31077.8
57.5°	31635.2	31583.2	30277.9	26760.7	28418.2	31271.3	32051.0	31591.9	28045.7	27918.7	32394.7
60°	32331.1	32400.4	31947.1	28782.1	30295.3	33203.2	34000.2	33287.0	30046.9	29989.2	33388.0
62.5°	31632.3	32022.1	32328.2	30581.2	31895.1	34624.0	35415.2	34600.9	32134.8	32553.5	34084.0
65°	30240.4	30324.1	31366.6	32105.9	32666.1	34857.9	35270.8	34837.7	33878.9	34889.7	34052.2
67.5°	28432.7	28504.9	29726.4	32605.5	31672.7	32201.2	32489.9	32362.9	33338.9	35689.6	32484.2
70°	26711.6	26653.8	27944.6	31332.0	27572.1	26769.3	27009.0	26610.5	28767.7	33734.6	29408.7
72.5°	23361.8	23569.7	24955.8	27791.6	21831.3	20526.0	21048.7	20017.8	22125.9	28891.8	23870.0
75°	18299.6	18348.7	20661.8	23324.3	16468.8	14409.8	15117.3	14687.0	16948.1	24101.1	16483.2
77.5°	12671.4	12561.7	15048.0	17814.5	11744.4	10548.9	10560.5	10355.4	11834.0	17745.2	11198.7
80°	8048.1	7880.6	9419.8	11005.2	8071.2	8634.3	8351.3	8342.7	7704.5	10947.4	6771.7
82.5°	4348.9	4533.7	5951.6	6898.8	5789.9	6673.6	6116.2	5937.2	5287.4	6852.6	4331.6
85°	1981.0	2154.3	3173.6	4692.6	4398.0	4447.1	2971.5	3505.7	4374.9	5564.7	2313.1
87.5°	193.5	248.3	655.5	2214.9	1501.6	1184.0	441.8	851.9	1100.2	1978.1	184.8
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	14069.1	14069.1	14069.1	14069.1	14069.1	14069.1	14069.1	14069.1	14069.1	14069.1	14069.1
2.5°	14952.7	14802.5	14291.4	13869.8	13422.2	13081.5	12636.7	12339.3	12134.3	11825.3	11787.7
5°	14265.4	13898.7	13009.3	12102.5	11319.9	10730.8	10133.1	9584.4	9261.0	9159.9	9030.0
7.5°	13107.4	12489.5	11345.9	10306.3	9408.3	8530.4	7854.6	7375.3	7054.7	6867.0	6641.8
10°	12154.5	11438.3	10046.4	8772.9	8033.7	7487.9	6893.0	6379.0	5983.4	5645.5	5460.7
12.5°	11513.4	10704.8	9139.7	8105.9	7534.1	6953.7	6257.7	5680.2	5096.9	4712.8	4548.2
15°	11319.9	10465.2	8859.6	7773.8	6953.7	6194.2	5414.5	4660.8	4083.3	3719.4	3598.1
17.5°	11793.5	10759.7	8856.7	7332.0	6272.2	5365.4	4366.3	3658.8	3066.8	2795.3	2708.7
20°	12677.2	11325.7	8882.7	6895.9	5532.9	4256.5	3176.5	2596.1	2313.1	2197.6	2154.3
22.5°	13910.2	12189.1	8960.7	6465.6	4724.3	3268.9	2379.5	2084.9	1983.9	1963.7	1955.0
25°	15429.2	13257.6	9223.4	6078.7	4042.8	2495.0	1989.7	1856.8	1799.1	1778.8	1776.0
27.5°	16826.9	14637.9	9541.1	5746.6	3384.4	2151.4	1799.1	1686.4	1628.7	1625.8	1631.6
30°	18088.8	15793.0	9806.8	5374.1	2884.9	1911.7	1674.9	1562.3	1507.4	1504.5	1521.8
32.5°	19180.4	16743.1	10003.1	5007.3	2607.6	1764.4	1562.3	1441.0	1394.8	1386.1	1394.8
35°	20347.0	17690.3	9913.6	4721.5	2448.8	1643.1	1478.5	1360.1	1305.3	1279.3	1279.3
37.5°	21678.3	18666.3	9760.6	4484.7	2376.6	1542.1	1406.3	1290.8	1236.0	1210.0	1207.1
40°	23130.8	19642.4	9549.8	4273.9	2304.4	1481.4	1357.2	1236.0	1169.5	1143.5	1137.8
42.5°	24412.9	20477.0	9376.5	4135.2	2186.0	1493.0	1313.9	1195.5	1111.8	1077.1	1074.2
45°	25527.6	21317.3	9344.7	4054.4	2087.8	1475.6	1302.4	1163.8	1065.6	1028.0	1022.3
47.5°	26399.7	22192.3	9526.6	4008.2	1981.0	1383.2	1377.5	1143.5	1025.1	984.7	978.9
50°	27462.4	23434.0	9942.5	3912.9	1882.8	1296.6	1455.4	1140.7	993.4	941.4	927.0
52.5°	28877.4	25051.1	10505.6	3742.5	1741.3	1215.7	1389.0	1140.7	955.8	903.9	886.5
55°	31017.2	27113.0	11057.2	3502.8	1542.1	1108.9	1253.3	1106.0	901.0	854.8	843.2
57.5°	32435.1	28620.4	11409.5	3170.7	1293.7	1030.9	1080.0	1051.1	846.1	797.0	797.0
60°	32507.3	29024.7	11242.0	2752.0	1137.8	958.7	938.5	1059.8	797.0	745.0	739.3
62.5°	31675.6	28034.2	10369.9	2376.6	1054.0	880.8	849.0	929.9	747.9	695.9	687.3
65°	30376.1	25507.4	8856.7	2197.6	1007.8	811.5	765.3	762.4	695.9	646.9	635.3
67.5°	27988.0	22290.5	7277.1	2093.6	984.7	733.5	690.2	675.7	635.3	594.9	589.1
70°	24467.8	18669.2	5836.1	2050.3	973.2	652.6	618.0	600.6	566.0	534.2	531.3
72.5°	19036.0	15143.3	4816.7	2021.4	967.4	577.5	540.0	516.9	496.7	467.8	467.8
75°	13673.4	11140.9	3676.1	1822.2	895.2	496.7	456.3	441.8	412.9	389.8	395.6
77.5°	8619.9	7502.3	2419.9	1339.9	693.1	398.5	363.9	355.2	332.1	300.3	320.5
80°	5821.7	5275.9	1412.1	843.2	436.0	291.7	280.1	277.2	251.2	216.6	219.5
82.5°	3962.0	3886.9	733.5	479.4	251.2	170.4	164.6	170.4	141.5	115.5	115.5
85°	1547.8	2113.8	346.5	187.7	80.9	26.0	37.5	40.4	23.1	11.6	14.4
87.5°	28.9	216.6	8.7	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°	14069.1	14069.1	14069.1	14069.1	14069.1	14069.1	14069.1	14069.1	14069.1	14069.1	14069.1
2.5°	11730.0	11704.0	11747.3	11562.5	11600.0	11669.4	11704.0	11724.2	12010.1	11943.7	12125.6
5°	9151.2	9125.3	9292.7	9315.8	9402.5	9385.2	9468.9	9489.1	9593.1	9630.6	9884.7
7.5°	6656.2	6768.9	6959.5	7057.6	7204.9	7251.1	7207.8	7314.6	7098.1	7254.0	7300.2
10°	5348.1	5212.4	5131.5	5356.8	5385.6	5599.3	5512.7	5443.4	5570.4	5576.2	5697.5
12.5°	4452.9	4161.2	3967.8	4031.3	4100.6	4193.0	4207.4	4346.0	4438.5	4525.1	4597.3
15°	3491.3	3390.2	3214.1	3127.4	3225.6	3263.1	3352.7	3468.2	3566.4	3592.3	3690.5
17.5°	2679.8	2697.1	2668.3	2616.3	2676.9	2705.8	2711.6	2714.5	2740.5	2723.1	2867.5
20°	2157.1	2217.8	2290.0	2301.5	2321.7	2336.2	2310.2	2212.0	2214.9	2275.5	2321.7
22.5°	1952.1	1963.7	2044.5	2070.5	2134.0	2108.0	2033.0	1986.8	1981.0	1995.4	2018.5
25°	1790.4	1807.7	1865.5	1905.9	1955.0	1908.8	1853.9	1810.6	1804.8	1819.3	1842.4
27.5°	1646.0	1672.0	1724.0	1764.4	1810.6	1767.3	1715.3	1677.8	1674.9	1672.0	1686.4
30°	1530.5	1559.4	1596.9	1643.1	1674.9	1637.3	1588.3	1568.0	1565.2	1559.4	1565.2
32.5°	1415.0	1461.2	1498.7	1521.8	1553.6	1524.7	1487.2	1475.6	1455.4	1438.1	1429.4
35°	1285.0	1334.1	1391.9	1420.8	1452.5	1423.7	1397.7	1348.6	1313.9	1311.0	1316.8
37.5°	1210.0	1230.2	1276.4	1325.5	1357.2	1342.8	1293.7	1244.6	1236.0	1236.0	1241.7
40°	1143.5	1152.2	1172.4	1236.0	1293.7	1250.4	1189.7	1175.3	1175.3	1172.4	1175.3
42.5°	1077.1	1085.8	1085.8	1134.9	1227.3	1158.0	1111.8	1111.8	1111.8	1114.7	1123.3
45°	1016.5	1019.4	1016.5	1051.1	1137.8	1080.0	1048.2	1056.9	1062.7	1068.5	1074.2
47.5°	964.5	967.4	964.5	993.4	1036.7	1013.6	996.3	1007.8	1019.4	1028.0	1033.8
50°	918.3	915.4	921.2	938.5	958.7	964.5	953.0	970.3	976.1	987.6	1002.0
52.5°	877.9	875.0	880.8	889.4	918.3	918.3	918.3	932.7	944.3	955.8	976.1
55°	831.7	834.6	843.2	854.8	892.3	886.5	889.4	901.0	912.5	929.9	941.4
57.5°	788.4	794.1	805.7	823.0	860.5	857.7	860.5	866.3	880.8	889.4	901.0
60°	739.3	750.8	765.3	776.8	814.3	811.5	825.9	837.4	846.1	846.1	851.9
62.5°	690.2	707.5	721.9	730.6	771.0	773.9	794.1	802.8	808.6	802.8	811.5
65°	641.1	667.1	672.8	684.4	724.8	727.7	750.8	771.0	765.3	759.5	773.9
67.5°	592.0	623.8	620.9	635.3	675.7	681.5	701.7	736.4	724.8	719.0	730.6
70°	537.1	560.2	563.1	571.8	626.6	618.0	649.7	681.5	672.8	675.7	675.7
72.5°	476.5	496.7	496.7	514.0	571.8	557.3	583.3	618.0	618.0	615.1	615.1
75°	404.3	415.8	427.4	453.4	514.0	496.7	514.0	545.8	551.6	545.8	545.8
77.5°	326.3	343.6	349.4	384.1	427.4	424.5	441.8	456.3	467.8	462.0	462.0
80°	231.0	248.3	271.4	309.0	335.0	343.6	352.3	363.9	369.6	369.6	375.4
82.5°	129.9	155.9	176.2	213.7	225.2	268.6	265.7	274.3	265.7	233.9	259.9
85°	28.9	54.9	78.0	98.2	112.6	155.9	164.6	184.8	153.1	141.5	141.5
87.5°	0.0	0.0	0.0	0.0	0.0	23.1	46.2	63.5	54.9	46.2	46.2
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°	14069.1	14069.1	14069.1	14069.1	14069.1	14069.1	14069.1	14069.1	14069.1	14069.1
2.5°	12278.7	12529.9	12833.1	13355.8	13722.5	14118.2	14516.7	14941.2	15053.8	15169.3
5°	9954.0	10447.8	10716.4	11418.1	12154.5	13090.1	13855.4	14692.8	15042.2	15123.1
7.5°	7539.9	7874.9	8579.5	9289.9	10202.4	11184.2	12356.6	13661.9	14069.1	14239.4
10°	5977.6	6433.9	7051.9	7814.2	8614.1	9671.0	10993.6	12518.3	13095.9	13191.2
12.5°	5088.2	5596.4	6269.3	7075.0	7831.5	8628.6	9962.7	11536.5	12154.5	12359.5
15°	4068.8	4683.9	5460.7	6309.7	7132.7	8004.8	9356.3	11132.2	11845.5	12085.2
17.5°	3196.7	3693.4	4533.7	5454.9	6431.0	7534.1	9229.2	11325.7	12203.6	12425.9
20°	2445.9	2801.1	3508.6	4481.8	5625.3	7069.2	9261.0	12056.3	13107.4	13410.7
22.5°	2113.8	2295.8	2726.0	3653.0	4932.3	6664.9	9390.9	13058.4	14326.1	14831.4
25°	1914.6	2009.9	2252.4	2858.9	4271.0	6272.2	9688.4	14406.9	16029.8	16364.8
27.5°	1744.2	1813.5	1963.7	2399.7	3670.3	5908.3	10034.9	15902.8	17621.0	18120.6
30°	1582.5	1674.9	1816.4	2131.2	3286.2	5576.2	10470.9	17115.6	18960.9	19425.8
32.5°	1458.3	1550.7	1680.7	1943.4	2959.9	5226.8	10730.8	18181.2	20055.3	20451.0
35°	1357.2	1435.2	1570.9	1793.3	2711.6	4961.1	10678.9	19027.3	21115.1	21519.4
37.5°	1285.0	1351.5	1487.2	1651.8	2523.9	4683.9	10652.9	20144.9	22406.0	22873.8
40°	1218.6	1287.9	1412.1	1559.4	2336.2	4357.6	10667.3	21253.8	23780.5	24248.3
42.5°	1166.6	1244.6	1345.7	1533.4	2142.7	4094.8	10667.3	22218.3	24976.1	25426.5
45°	1123.3	1207.1	1305.3	1530.5	1989.7	3895.6	10595.1	23047.0	25929.0	26313.1
47.5°	1085.8	1178.2	1319.7	1478.5	1952.1	3751.2	10531.6	23711.2	26705.8	27066.8
50°	1059.8	1169.5	1403.4	1417.9	1963.7	3707.9	10837.7	24548.7	27390.2	27702.1
52.5°	1039.6	1172.4	1400.6	1328.4	1943.4	3736.7	11475.9	25856.8	28340.3	28363.4
55°	999.2	1169.5	1328.4	1227.3	1859.7	3785.8	12296.0	27756.9	29827.5	29844.8
57.5°	958.7	1137.8	1233.1	1140.7	1689.3	3785.8	13283.6	29556.0	31620.7	31635.2
60°	918.3	1184.0	1082.9	1065.6	1467.0	3716.5	14326.1	30347.2	32183.8	32331.1
62.5°	877.9	1192.6	967.4	999.2	1305.3	3549.0	15102.9	29472.3	31421.5	31632.3
65°	831.7	961.6	892.3	929.9	1221.5	3268.9	14857.4	27869.6	29989.2	30240.4
67.5°	776.8	814.3	811.5	857.7	1192.6	2856.0	13563.7	25842.4	28447.1	28432.7
70°	710.4	730.6	739.3	788.4	1137.8	2535.4	11302.6	23211.6	26388.2	26711.6
72.5°	641.1	658.4	667.1	710.4	1082.9	2353.5	8772.9	19587.5	22856.5	23361.8
75°	566.0	577.5	589.1	626.6	1025.1	2084.9	6249.1	14952.7	17505.5	18299.6
77.5°	488.0	488.0	502.5	540.0	863.4	1721.1	4193.0	10488.3	11859.9	12671.4
80°	395.6	398.5	392.7	433.2	635.3	1178.2	2382.4	7005.7	7892.2	8048.1
82.5°	303.2	294.5	297.4	317.7	473.6	802.8	1270.6	4351.8	4435.6	4348.9
85°	190.6	190.6	184.8	207.9	303.2	418.7	693.1	2665.4	2082.1	1981.0
87.5°	78.0	63.5	72.2	83.7	144.4	170.4	271.4	548.7	210.8	193.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)