

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: P456496

Luminaire Tested: **GALN-SA7D-730-U-SLL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456496  
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-SA7D-730-U-SLL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3000K, 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: 42298 lumens  
Efficiency: N/A  
Efficacy: 97.7 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

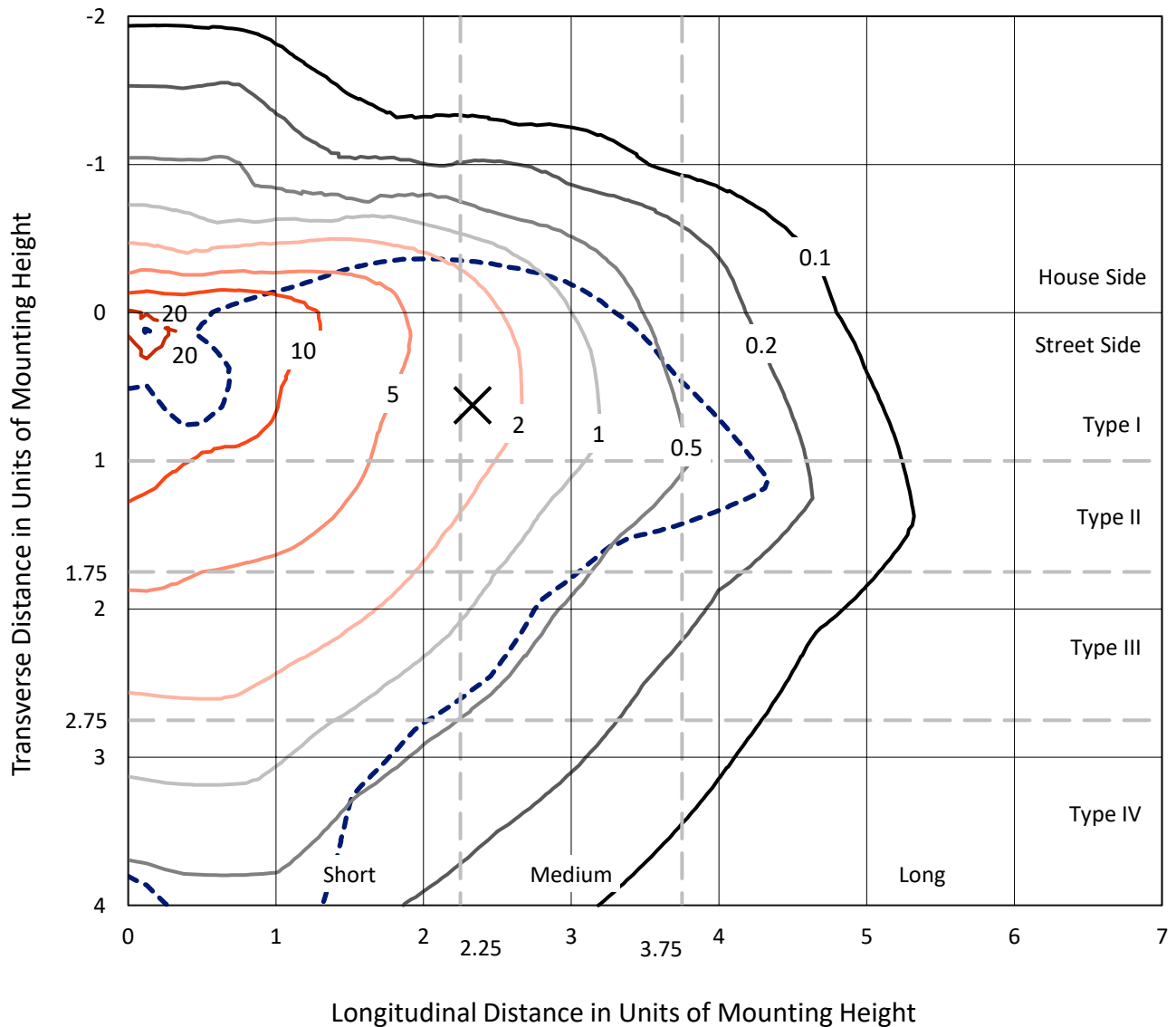
Input Watts (W): 433  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

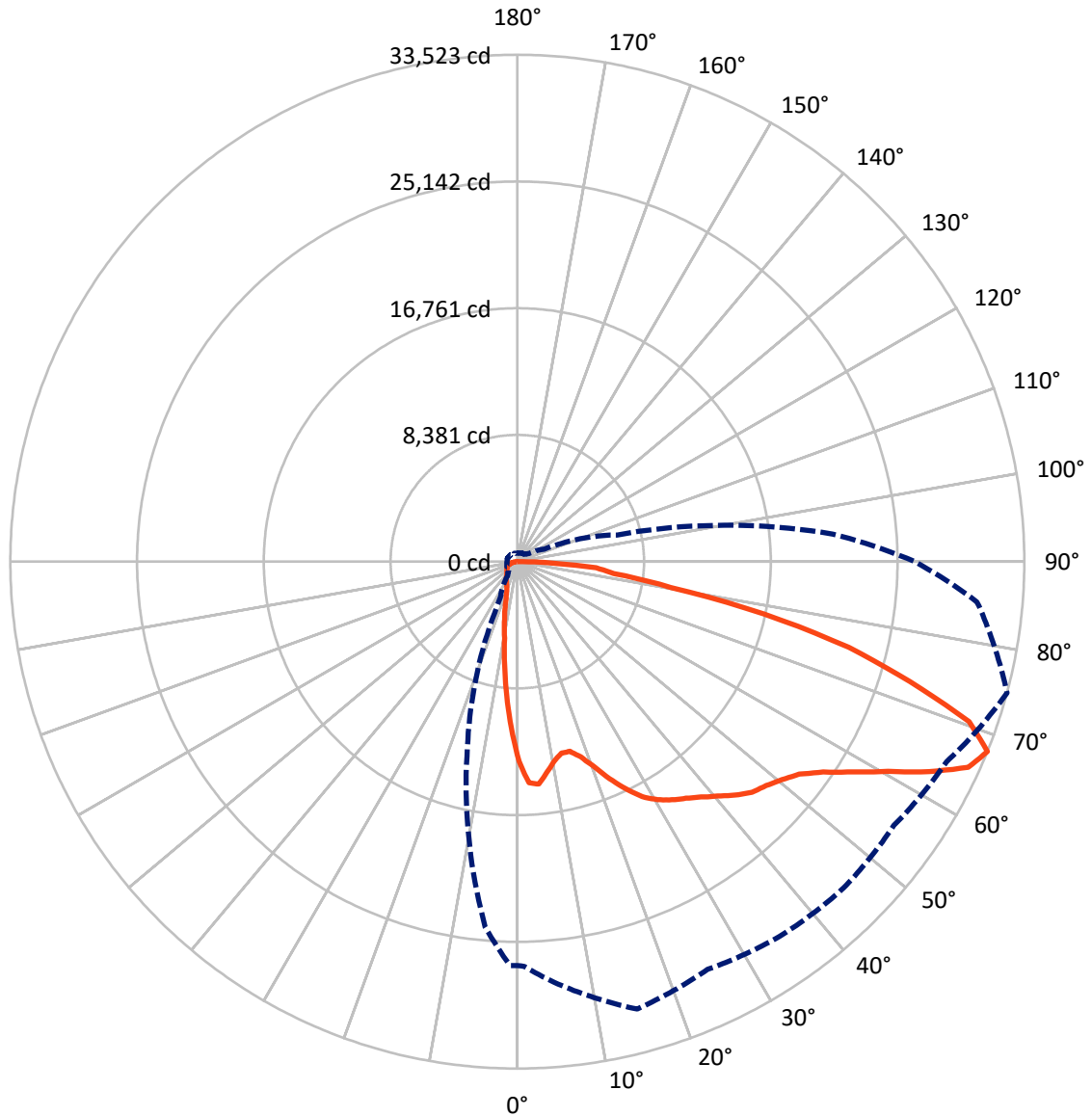
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 26.1 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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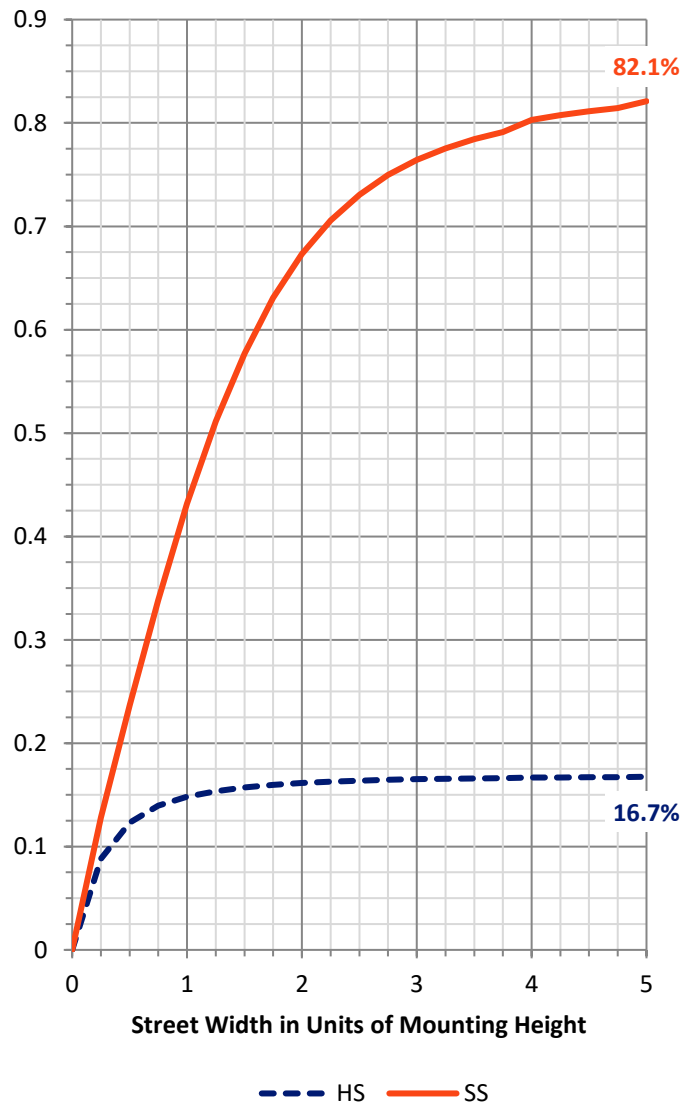
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7149.3	0.0	7149.3
	% Fixture	16.9	0.0	16.9
<b>Street Side</b>	Lumens	35148.7	0.0	35148.7
	% Fixture	83.1	0.0	83.1
<b>Total</b>	Lumens	42298.0	0.0	42298.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1002.3	2.4
10°-20°	2090.4	4.9
20°-30°	3008.1	7.1
30°-40°	4332.4	10.2
40°-50°	6085.9	14.4
50°-60°	8487.7	20.1
60°-70°	10091.3	23.9
70°-80°	5943.2	14.1
80°-90°	1256.8	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°	42298.0	100.0
0°-180°	42298.0	100.0



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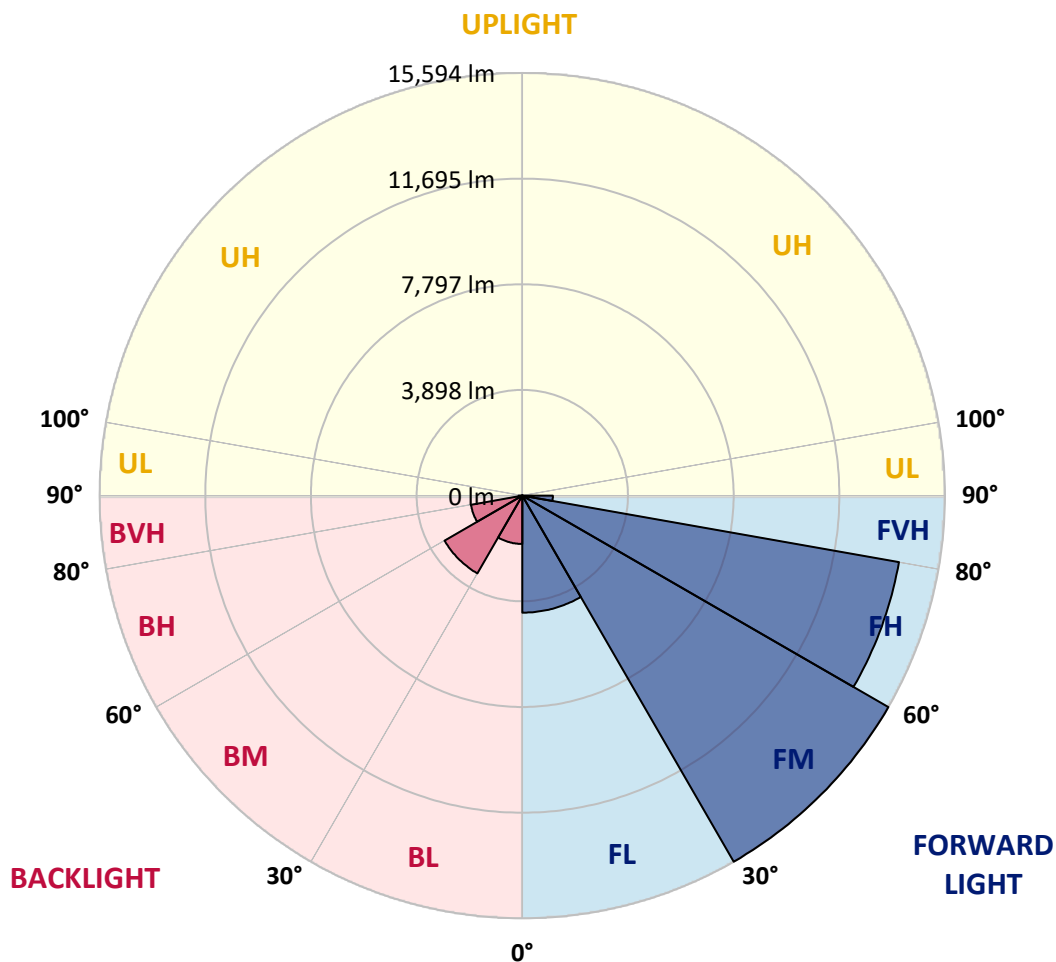
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4317.5	10.2			
FM	(30°-60°)	15593.7	36.9			
FH	(60°-80°)	14110.8	33.4			G5
FVH	(80°-90°)	1126.8	2.7			G5
BL	(0°-30°)	1783.3	4.2	B3/2500		
BM	(30°-60°)	3312.3	7.8	B3/5000		
BH	(60°-80°)	1923.7	4.5	B3/2500		G3/2500
BVH	(80°-90°)	130.0	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°	13214.9	13214.9	13214.9	13214.9	13214.9	13214.9	13214.9	13214.9	13214.9	13214.9	13214.9
2.5°	14248.3	14267.3	14389.4	14744.7	14988.8	15078.3	15140.7	15024.1	14910.2	14633.5	14215.8
5°	14204.9	14316.1	14633.5	15430.9	16060.2	16331.5	16412.8	16062.9	15485.2	14774.5	13920.1
7.5°	13374.9	13524.1	14012.3	15349.6	16458.9	17093.7	17009.6	16377.6	15336.0	14069.3	12875.8
10°	12390.3	12555.8	13144.4	14761.0	16190.4	17063.8	17063.8	16293.5	14910.2	13404.8	12029.6
12.5°	11609.1	11782.7	12455.4	14156.1	15631.7	16458.9	16597.3	15935.5	14603.7	12984.3	11473.5
15°	11351.5	11519.6	12243.9	13789.9	15040.4	15544.9	15591.0	15374.0	14454.5	13014.2	11449.1
17.5°	11671.5	11888.5	12620.9	13898.4	14497.9	14527.7	14563.0	14733.8	14470.7	13559.4	11942.8
20°	12596.5	12829.7	13594.6	14248.3	14023.2	13714.0	13733.0	14172.4	14663.3	14459.9	13122.7
22.5°	13931.0	14134.4	14918.3	14864.0	13822.5	13185.1	13052.2	13665.2	14948.1	15582.8	14378.5
25°	15371.3	15610.0	16510.5	15778.1	13879.4	12870.4	12786.3	13366.8	15243.8	16632.5	15829.7
27.5°	17020.4	17253.7	17964.3	16700.4	14177.8	12846.0	12745.6	13339.7	15509.6	17603.6	17215.7
30°	18246.4	18460.7	18943.5	17476.1	14544.0	13008.8	12884.0	13553.9	15737.4	18268.1	18566.5
32.5°	19209.3	19431.8	19694.9	17958.9	15026.8	13304.4	13073.9	13944.5	16035.8	18775.4	19567.4
35°	20212.9	20476.0	20457.0	18387.5	15477.1	13646.2	13421.0	14508.7	16505.1	19217.5	20836.8
37.5°	21485.1	21590.8	21455.2	18772.6	16016.8	14261.9	14137.1	15346.9	17172.3	19751.8	22320.5
40°	22776.2	22987.7	22290.6	19239.2	16673.2	15420.1	15406.5	16586.4	17964.3	20378.4	23758.1
42.5°	23882.8	24061.9	23071.8	19646.0	17468.0	16833.3	16936.3	18249.1	19003.2	21105.3	24913.6
45°	24715.5	24875.6	23793.3	20039.3	18515.0	18466.1	19073.7	20031.2	20313.3	21759.0	25591.7
47.5°	25423.5	25578.1	24295.1	20636.1	19808.8	20416.4	21474.2	21889.2	21433.5	22133.3	26351.1
50°	26020.2	26066.3	24639.6	21346.7	21414.5	22806.0	23831.3	24099.8	22540.2	22670.4	27010.2
52.5°	26641.4	26581.7	25233.6	22241.8	23150.5	25073.6	25819.5	26098.9	23600.7	23332.2	27970.4
55°	28032.8	28089.8	26565.4	23370.2	24905.4	27300.5	28282.4	28013.8	24775.2	24550.1	29191.0
57.5°	29714.5	29665.7	28439.7	25136.0	26692.9	29372.8	30105.1	29673.8	26343.0	26223.6	30427.9
60°	30368.2	30433.3	30007.5	27034.7	28456.0	31187.4	31936.0	31266.0	28222.7	28168.5	31361.0
62.5°	29711.8	30078.0	30365.5	28724.5	29958.6	32521.9	33265.1	32500.2	30183.8	30577.1	32014.7
65°	28404.4	28483.1	29462.3	30156.7	30682.9	32741.6	33129.5	32722.6	31822.1	32771.4	31984.8
67.5°	26706.5	26774.3	27921.6	30625.9	29749.8	30246.2	30517.4	30398.1	31314.9	33522.8	30512.0
70°	25089.9	25035.6	26248.1	29429.7	25898.2	25144.1	25369.2	24994.9	27021.1	31686.5	27623.3
72.5°	21943.5	22138.7	23440.7	26104.3	20505.9	19279.9	19770.8	18802.5	20782.5	27137.7	22420.8
75°	17188.6	17234.7	19407.3	21908.2	15468.9	13535.0	14199.5	13795.4	15919.2	22637.8	15482.5
77.5°	11902.1	11799.0	14134.4	16732.9	11031.4	9908.5	9919.3	9726.7	11115.5	16667.8	10518.8
80°	7559.5	7402.2	8847.9	10337.0	7581.2	8110.1	7844.3	7836.2	7236.7	10282.8	6360.6
82.5°	4084.9	4258.5	5590.3	6480.0	5438.4	6268.4	5744.9	5576.7	4966.4	6436.6	4068.6
85°	1860.7	2023.5	2980.9	4407.7	4131.0	4177.1	2791.1	3292.9	4109.3	5226.8	2172.6
87.5°	181.7	233.3	615.7	2080.4	1410.5	1112.1	415.0	800.2	1033.4	1858.0	173.6
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°	13214.9	13214.9	13214.9	13214.9	13214.9	13214.9	13214.9	13214.9	13214.9	13214.9	13214.9
2.5°	14044.9	13903.9	13423.8	13027.7	12607.3	12287.2	11869.5	11590.2	11397.6	11107.3	11072.1
5°	13399.3	13054.9	12219.4	11367.7	10632.7	10079.3	9517.9	9002.5	8698.7	8603.8	8481.7
7.5°	12311.7	11731.2	10657.1	9680.6	8837.1	8012.5	7377.8	6927.5	6626.4	6450.1	6238.6
10°	11416.6	10743.9	9436.5	8240.3	7545.9	7033.3	6474.5	5991.7	5620.1	5302.8	5129.2
12.5°	10814.4	10054.9	8584.8	7613.8	7076.7	6531.5	5877.8	5335.3	4787.4	4426.7	4272.1
15°	10632.7	9829.8	8321.7	7301.8	6531.5	5818.1	5085.8	4377.8	3835.4	3493.6	3379.7
17.5°	11077.5	10106.5	8319.0	6886.8	5891.4	5039.7	4101.2	3436.6	2880.6	2625.6	2544.2
20°	11907.5	10638.1	8343.4	6477.3	5197.0	3998.1	2983.7	2438.5	2172.6	2064.1	2023.5
22.5°	13065.7	11449.1	8416.6	6073.1	4437.5	3070.5	2235.0	1958.4	1863.4	1844.4	1836.3
25°	14492.4	12452.7	8663.5	5709.6	3797.4	2343.5	1868.9	1744.1	1689.8	1670.8	1668.1
27.5°	15805.3	13749.2	8961.8	5397.7	3179.0	2020.8	1689.8	1584.1	1529.8	1527.1	1532.5
30°	16990.6	14834.2	9211.4	5047.8	2709.7	1795.6	1573.2	1467.4	1415.9	1413.2	1429.4
32.5°	18015.9	15726.6	9395.8	4703.3	2449.3	1657.3	1467.4	1353.5	1310.1	1302.0	1310.1
35°	19111.7	16616.3	9311.7	4434.8	2300.1	1543.4	1388.8	1277.5	1226.0	1201.6	1201.6
37.5°	20362.1	17533.1	9168.0	4212.4	2232.3	1448.4	1320.9	1212.5	1160.9	1136.5	1133.8
40°	21726.5	18449.9	8970.0	4014.4	2164.5	1391.5	1274.8	1160.9	1098.5	1074.1	1068.7
42.5°	22930.8	19233.7	8807.2	3884.2	2053.3	1402.3	1234.1	1122.9	1044.3	1011.7	1009.0
45°	23977.8	20023.1	8777.4	3808.2	1961.1	1386.0	1223.3	1093.1	1000.9	965.6	960.2
47.5°	24796.9	20844.9	8948.3	3764.8	1860.7	1299.2	1293.8	1074.1	962.9	924.9	919.5
50°	25795.1	22011.3	9338.9	3675.3	1768.5	1217.9	1367.1	1071.4	933.1	884.2	870.7
52.5°	27124.2	23530.2	9867.8	3515.3	1635.6	1141.9	1304.7	1071.4	897.8	849.0	832.7
55°	29134.1	25466.9	10385.8	3290.2	1448.4	1041.6	1177.2	1038.9	846.3	802.9	792.0
57.5°	30465.9	26882.8	10716.8	2978.2	1215.2	968.3	1014.4	987.3	794.7	748.6	748.6
60°	30533.7	27262.5	10559.4	2584.9	1068.7	900.5	881.5	995.5	748.6	699.8	694.4
62.5°	29752.5	26332.1	9740.3	2232.3	990.0	827.3	797.5	873.4	702.5	653.7	645.6
65°	28531.9	23958.8	8319.0	2064.1	946.6	762.2	718.8	716.1	653.7	607.6	596.7
67.5°	26288.7	20937.1	6835.3	1966.5	924.9	689.0	648.3	634.7	596.7	558.8	553.3
70°	22982.3	17535.8	5481.8	1925.8	914.1	613.0	580.5	564.2	531.6	501.8	499.1
72.5°	17880.3	14223.9	4524.3	1898.7	908.7	542.5	507.2	485.5	466.5	439.4	439.4
75°	12843.3	10464.5	3452.9	1711.5	840.8	466.5	428.6	415.0	387.9	366.2	371.6
77.5°	8096.6	7046.9	2273.0	1258.6	651.0	374.3	341.8	333.6	311.9	282.1	301.1
80°	5468.2	4955.6	1326.4	792.0	409.6	274.0	263.1	260.4	236.0	203.4	206.1
82.5°	3721.4	3650.9	689.0	450.3	236.0	160.0	154.6	160.0	132.9	108.5	108.5
85°	1453.9	1985.5	325.5	176.3	75.9	24.4	35.3	38.0	21.7	10.8	13.6
87.5°	27.1	203.4	8.1	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°	13214.9	13214.9	13214.9	13214.9	13214.9	13214.9	13214.9	13214.9	13214.9	13214.9	13214.9
2.5°	11017.8	10993.4	11034.1	10860.5	10895.8	10960.9	10993.4	11012.4	11280.9	11218.6	11389.4
5°	8595.6	8571.2	8728.6	8750.3	8831.6	8815.4	8894.0	8913.0	9010.6	9045.9	9284.6
7.5°	6252.1	6357.9	6536.9	6629.1	6767.5	6810.9	6770.2	6870.6	6667.1	6813.6	6857.0
10°	5023.4	4895.9	4820.0	5031.5	5058.7	5259.4	5178.0	5112.9	5232.3	5237.7	5351.6
12.5°	4182.5	3908.6	3726.9	3786.5	3851.6	3938.4	3952.0	4082.2	4169.0	4250.4	4318.2
15°	3279.3	3184.4	3018.9	2937.5	3029.8	3065.0	3149.1	3257.6	3349.8	3374.2	3466.5
17.5°	2517.1	2533.4	2506.3	2457.4	2514.4	2541.5	2547.0	2549.7	2574.1	2557.8	2693.4
20°	2026.2	2083.1	2150.9	2161.8	2180.8	2194.3	2169.9	2077.7	2080.4	2137.4	2180.8
22.5°	1833.6	1844.4	1920.4	1944.8	2004.5	1980.1	1909.5	1866.1	1860.7	1874.3	1896.0
25°	1681.7	1698.0	1752.2	1790.2	1836.3	1792.9	1741.4	1700.7	1695.3	1708.8	1730.5
27.5°	1546.1	1570.5	1619.3	1657.3	1700.7	1660.0	1611.2	1575.9	1573.2	1570.5	1584.1
30°	1437.6	1464.7	1500.0	1543.4	1573.2	1537.9	1491.8	1472.8	1470.1	1464.7	1470.1
32.5°	1329.1	1372.5	1407.7	1429.4	1459.3	1432.2	1396.9	1386.0	1367.1	1350.8	1342.6
35°	1207.0	1253.1	1307.4	1334.5	1364.3	1337.2	1312.8	1266.7	1234.1	1231.4	1236.9
37.5°	1136.5	1155.5	1198.9	1245.0	1274.8	1261.3	1215.2	1169.1	1160.9	1160.9	1166.3
40°	1074.1	1082.3	1101.2	1160.9	1215.2	1174.5	1117.5	1104.0	1104.0	1101.2	1104.0
42.5°	1011.7	1019.9	1019.9	1066.0	1152.8	1087.7	1044.3	1044.3	1044.3	1047.0	1055.1
45°	954.8	957.5	954.8	987.3	1068.7	1014.4	984.6	992.7	998.2	1003.6	1009.0
47.5°	905.9	908.7	905.9	933.1	973.8	952.1	935.8	946.6	957.5	965.6	971.0
50°	862.5	859.8	865.3	881.5	900.5	905.9	895.1	911.4	916.8	927.6	941.2
52.5°	824.6	821.9	827.3	835.4	862.5	862.5	862.5	876.1	887.0	897.8	916.8
55°	781.2	783.9	792.0	802.9	838.1	832.7	835.4	846.3	857.1	873.4	884.2
57.5°	740.5	745.9	756.8	773.0	808.3	805.6	808.3	813.7	827.3	835.4	846.3
60°	694.4	705.2	718.8	729.6	764.9	762.2	775.8	786.6	794.7	794.7	800.2
62.5°	648.3	664.5	678.1	686.2	724.2	726.9	745.9	754.1	759.5	754.1	762.2
65°	602.2	626.6	632.0	642.8	680.8	683.5	705.2	724.2	718.8	713.4	726.9
67.5°	556.0	585.9	583.2	596.7	634.7	640.1	659.1	691.7	680.8	675.4	686.2
70°	504.5	526.2	528.9	537.1	588.6	580.5	610.3	640.1	632.0	634.7	634.7
72.5°	447.5	466.5	466.5	482.8	537.1	523.5	547.9	580.5	580.5	577.7	577.7
75°	379.7	390.6	401.4	425.8	482.8	466.5	482.8	512.6	518.1	512.6	512.6
77.5°	306.5	322.8	328.2	360.8	401.4	398.7	415.0	428.6	439.4	434.0	434.0
80°	217.0	233.3	255.0	290.2	314.6	322.8	330.9	341.8	347.2	347.2	352.6
82.5°	122.1	146.5	165.5	200.7	211.6	252.3	249.5	257.7	249.5	219.7	244.1
85°	27.1	51.5	73.2	92.2	105.8	146.5	154.6	173.6	143.8	132.9	132.9
87.5°	0.0	0.0	0.0	0.0	0.0	21.7	43.4	59.7	51.5	43.4	43.4
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°	13214.9	13214.9	13214.9	13214.9	13214.9	13214.9	13214.9	13214.9	13214.9	13214.9
2.5°	11533.2	11769.2	12054.0	12544.9	12889.4	13261.0	13635.3	14034.0	14139.8	14248.3
5°	9349.7	9813.5	10065.8	10724.9	11416.6	12295.4	13014.2	13800.8	14129.0	14204.9
7.5°	7082.1	7396.8	8058.6	8725.8	9583.0	10505.2	11606.4	12832.4	13214.9	13374.9
10°	5614.7	6043.3	6623.7	7339.8	8091.1	9083.9	10326.2	11758.3	12300.8	12390.3
12.5°	4779.3	5256.7	5888.7	6645.4	7356.1	8104.7	9357.8	10836.1	11416.6	11609.1
15°	3821.8	4399.5	5129.2	5926.6	6699.7	7518.8	8788.2	10456.4	11126.3	11351.5
17.5°	3002.6	3469.2	4258.5	5123.8	6040.6	7076.7	8668.9	10638.1	11462.7	11671.5
20°	2297.4	2631.0	3295.6	4209.7	5283.8	6640.0	8698.7	11324.3	12311.7	12596.5
22.5°	1985.5	2156.4	2560.5	3431.2	4632.8	6260.3	8820.8	12265.6	13456.3	13931.0
25°	1798.3	1887.8	2115.7	2685.3	4011.7	5891.4	9100.2	13532.2	15056.6	15371.3
27.5°	1638.3	1703.4	1844.4	2254.0	3447.5	5549.6	9425.6	14937.3	16551.2	17020.4
30°	1486.4	1573.2	1706.1	2001.8	3086.7	5237.7	9835.2	16076.5	17809.7	18246.4
32.5°	1369.8	1456.6	1578.6	1825.5	2780.2	4909.5	10079.3	17077.4	18837.7	19209.3
35°	1274.8	1348.1	1475.6	1684.4	2547.0	4659.9	10030.5	17872.1	19833.2	20212.9
37.5°	1207.0	1269.4	1396.9	1551.5	2370.7	4399.5	10006.1	18921.8	21045.6	21485.1
40°	1144.6	1209.7	1326.4	1464.7	2194.3	4093.0	10019.7	19963.4	22336.8	22776.2
42.5°	1095.8	1169.1	1264.0	1440.3	2012.6	3846.2	10019.7	20869.3	23459.7	23882.8
45°	1055.1	1133.8	1226.0	1437.6	1868.9	3659.1	9951.9	21647.8	24354.8	24715.5
47.5°	1019.9	1106.7	1239.6	1388.8	1833.6	3523.4	9892.2	22271.7	25084.4	25423.5
50°	995.5	1098.5	1318.2	1331.8	1844.4	3482.7	10179.7	23058.3	25727.3	26020.2
52.5°	976.5	1101.2	1315.5	1247.7	1825.5	3509.9	10779.1	24287.0	26619.7	26641.4
55°	938.5	1098.5	1247.7	1152.8	1746.8	3556.0	11549.5	26071.8	28016.6	28032.8
57.5°	900.5	1068.7	1158.2	1071.4	1586.8	3556.0	12477.1	27761.6	29701.0	29714.5
60°	862.5	1112.1	1017.2	1000.9	1377.9	3490.9	13456.3	28504.8	30229.9	30368.2
62.5°	824.6	1120.2	908.7	938.5	1226.0	3333.6	14185.9	27682.9	29513.8	29711.8
65°	781.2	903.2	838.1	873.4	1147.4	3070.5	13955.4	26177.5	28168.5	28404.4
67.5°	729.6	764.9	762.2	805.6	1120.2	2682.6	12740.2	24273.4	26720.0	26706.5
70°	667.3	686.2	694.4	740.5	1068.7	2381.5	10616.4	21802.4	24786.1	25089.9
72.5°	602.2	618.4	626.6	667.3	1017.2	2210.6	8240.3	18398.3	21468.8	21943.5
75°	531.6	542.5	553.3	588.6	962.9	1958.4	5869.7	14044.9	16442.7	17188.6
77.5°	458.4	458.4	472.0	507.2	811.0	1616.6	3938.4	9851.5	11139.9	11902.1
80°	371.6	374.3	368.9	406.9	596.7	1106.7	2237.7	6580.3	7413.0	7559.5
82.5°	284.8	276.7	279.4	298.4	444.8	754.1	1193.5	4087.6	4166.3	4084.9
85°	179.0	179.0	173.6	195.3	284.8	393.3	651.0	2503.6	1955.7	1860.7
87.5°	73.2	59.7	67.8	78.7	135.6	160.0	255.0	515.4	198.0	181.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)