

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: P453711

Luminaire Tested: **GALN-SA4D-730-U-SLL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P453711  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-21)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA4D-730-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20015 lumens  
Efficiency: N/A  
Efficacy: 81.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

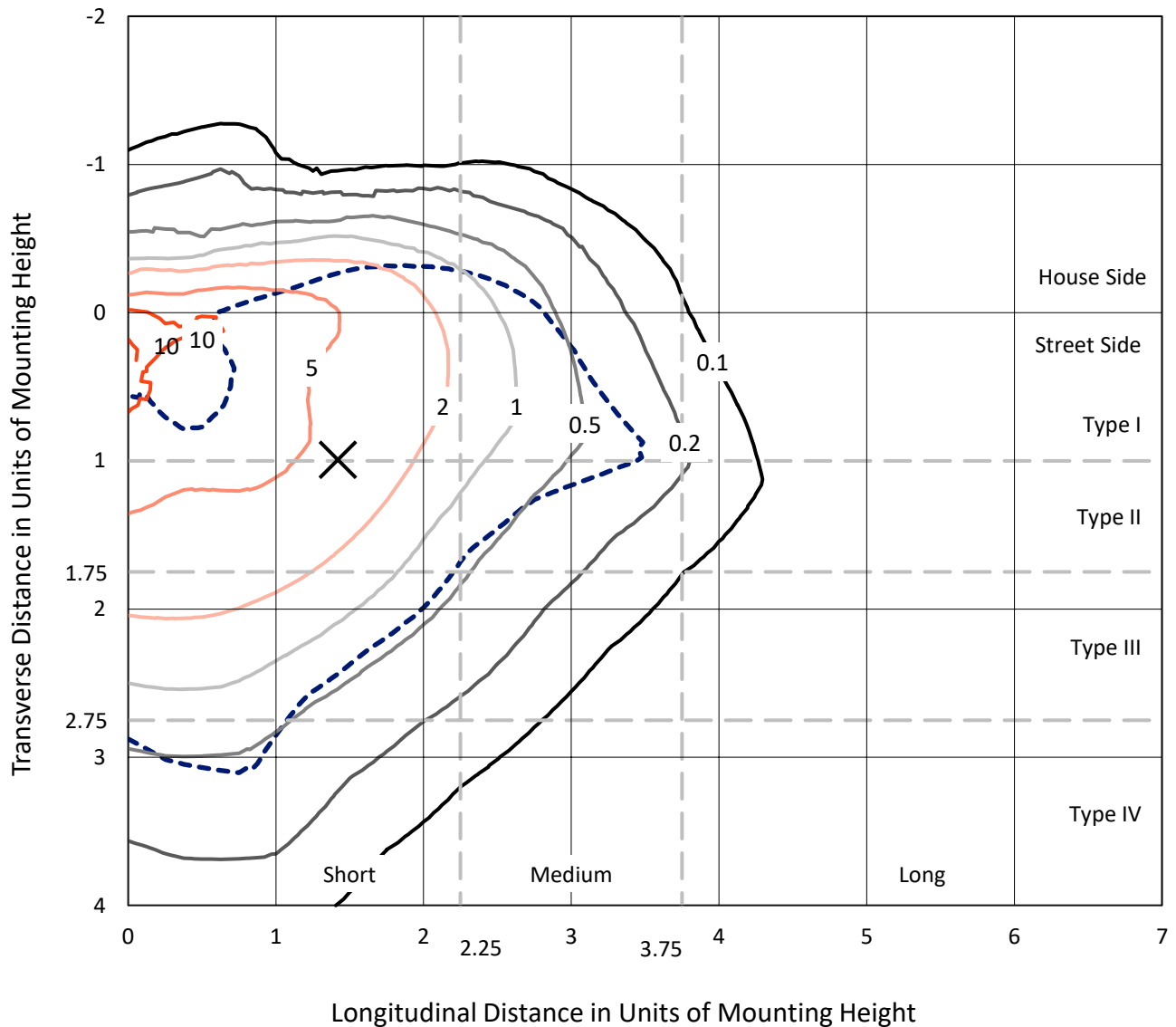
Input Watts (W): 245  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

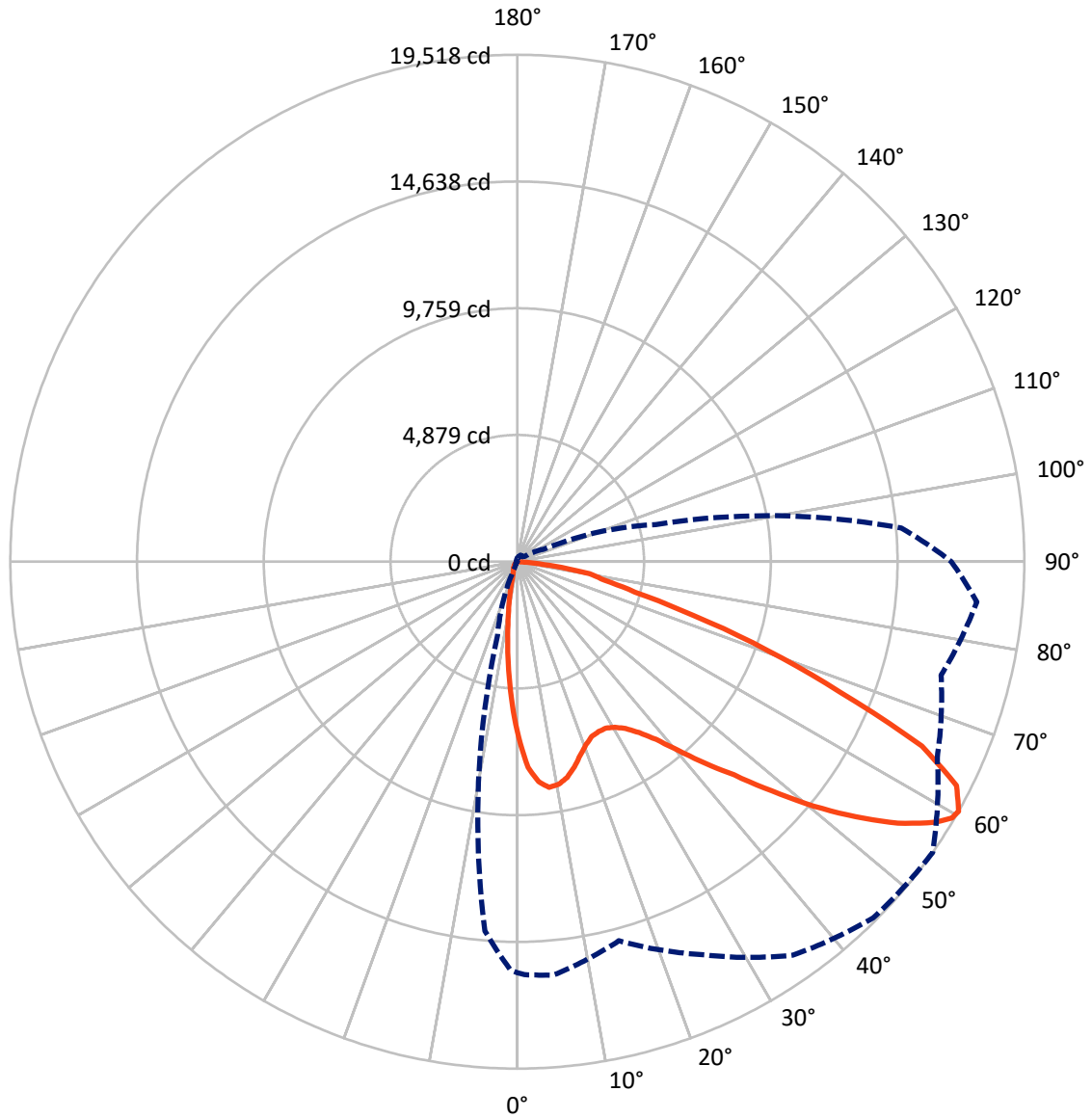
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 60-Deg Vertical

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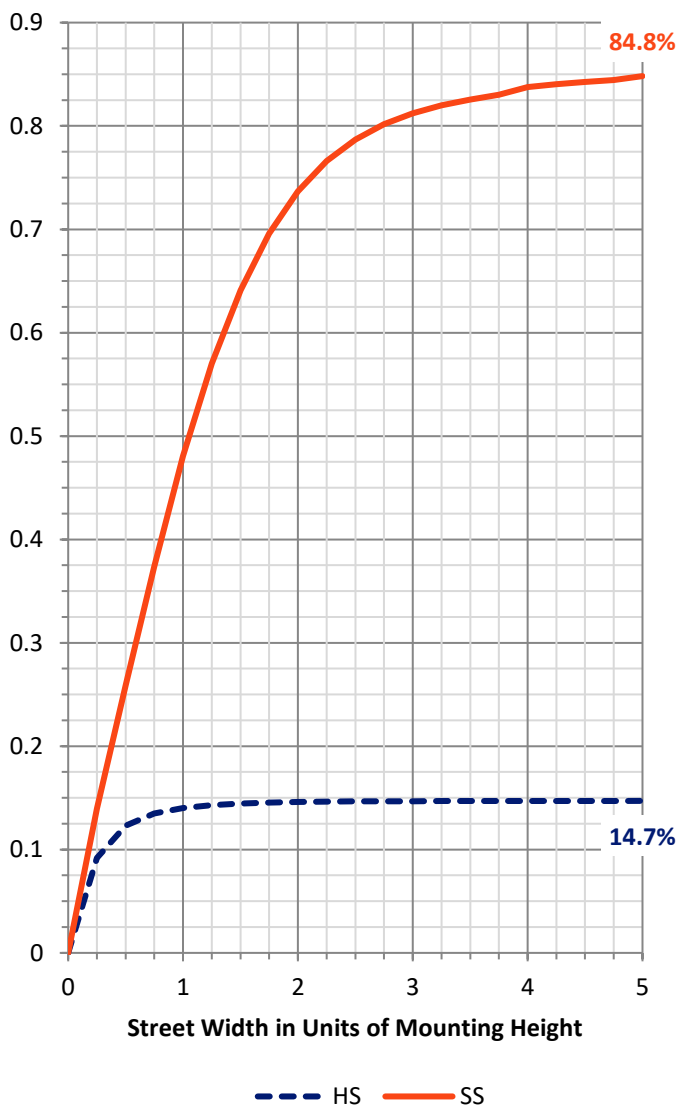
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2970.4	0.0	2970.4
	% Fixture	14.8	0.0	14.8
<b>Street Side</b>	Lumens	17044.6	0.0	17044.6
	% Fixture	85.2	0.0	85.2
<b>Total</b>	Lumens	20015.0	0.0	20015.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	501.8	2.5
10°-20°	988.3	4.9
20°-30°	1462.8	7.3
30°-40°	2180.5	10.9
40°-50°	3193.3	16.0
50°-60°	4610.1	23.0
60°-70°	4849.6	24.2
70°-80°	1995.0	10.0
80°-90°	233.7	1.2
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°	20015.0	100.0
0°-180°	20015.0	100.0

**Coefficient of Utilization**



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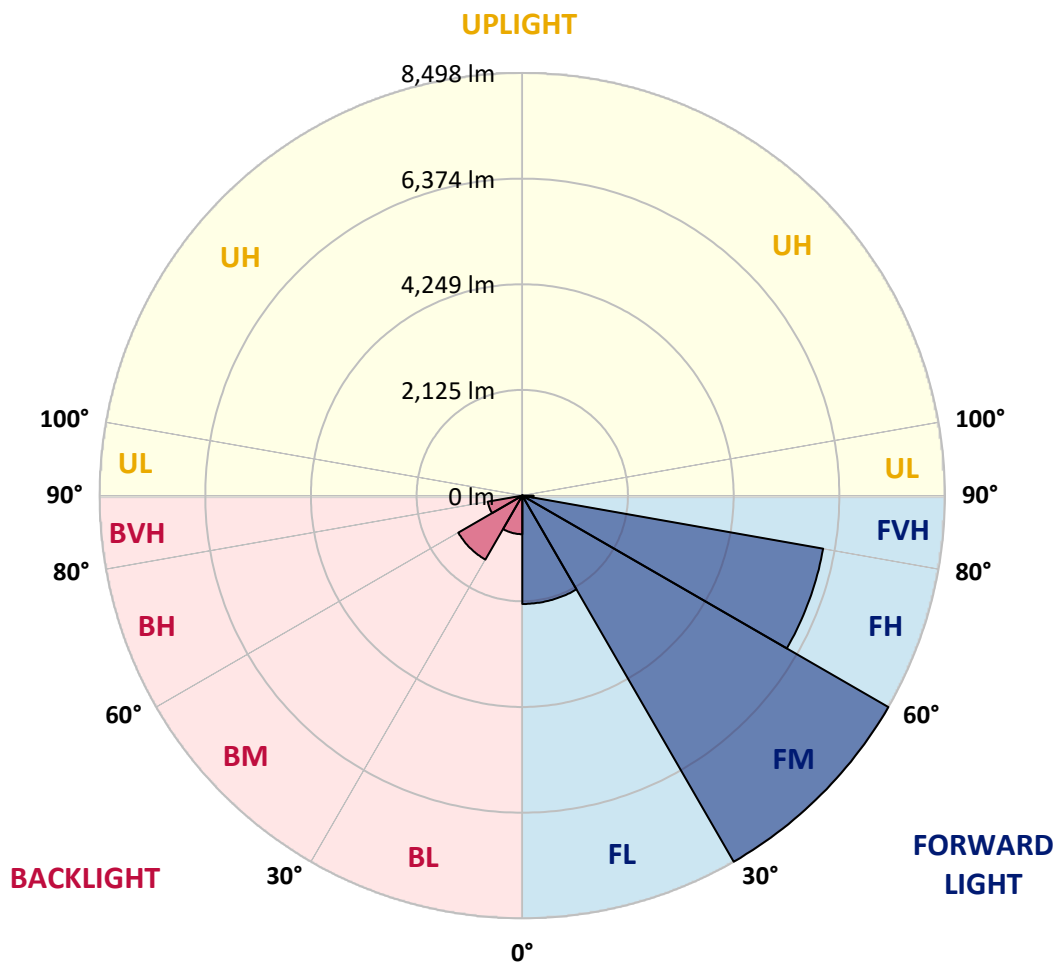
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2177.9	10.9			
FM (30°-60°)	8498.4	42.5			
FH (60°-80°)	6141.5	30.7			G3/7500
FVH (80°-90°)	226.8	1.1			G3/500
BL (0°-30°)	775.0	3.9	B2/1000		
BM (30°-60°)	1485.5	7.4	B2/2500		
BH (60°-80°)	703.1	3.5	B2/1000		G2/1000
BVH (80°-90°)	6.9	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-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6777.0	6777.0	6777.0	6777.0	6777.0	6777.0	6777.0	6777.0	6777.0	6777.0	6777.0
2.5°	7404.0	7391.7	7501.1	7679.8	7860.1	7954.0	7935.5	7927.8	7778.4	7669.0	7439.5
5°	7388.6	7451.8	7647.5	8131.2	8497.9	8675.0	8727.4	8507.1	8215.9	7793.8	7273.1
7.5°	6946.5	7025.1	7344.0	8100.4	8752.1	9137.2	9123.3	8770.5	8169.7	7516.5	6773.9
10°	6398.0	6490.5	6864.8	7783.0	8628.8	9137.2	9164.9	8718.2	7971.0	7132.9	6351.8
12.5°	6011.4	6120.7	6535.2	7487.2	8311.4	8812.1	8844.5	8521.0	7821.5	6985.0	6122.3
15°	5880.4	5983.6	6404.2	7337.8	7974.1	8243.7	8236.0	8202.1	7763.0	7020.4	6134.6
17.5°	6105.3	6190.1	6664.6	7405.6	7658.2	7630.5	7670.6	7833.9	7775.3	7317.8	6522.8
20°	6686.1	6772.4	7282.3	7613.6	7416.4	7240.7	7259.2	7531.9	7889.3	7877.0	7129.8
22.5°	7485.7	7632.0	8094.2	8017.2	7384.0	6998.9	6960.4	7314.7	8083.4	8521.0	7949.4
25°	8497.9	8645.8	9006.2	8661.2	7542.7	6941.9	6906.4	7248.4	8319.1	9149.5	8872.2
27.5°	9348.3	9460.7	9819.7	9288.2	7776.9	6966.5	6908.0	7257.7	8510.2	9684.1	9650.2
30°	10029.2	10112.4	10323.4	9580.9	7978.7	7074.4	7006.6	7393.3	8594.9	9944.5	10280.3
32.5°	10577.6	10717.8	10784.1	9893.6	8268.3	7277.7	7162.2	7653.6	8801.3	10266.4	10941.2
35°	11204.7	11366.4	11281.7	10192.5	8650.4	7595.1	7453.3	8075.7	9114.1	10563.8	11708.4
37.5°	11999.6	12186.0	11854.8	10506.8	9054.0	8072.7	8006.4	8668.9	9588.6	10989.0	12531.1
40°	12822.3	12930.1	12410.9	10888.8	9550.1	8767.5	8830.6	9550.1	10209.4	11498.9	13406.2
42.5°	13464.7	13566.4	12982.5	11209.3	10056.9	9591.7	9855.1	10613.1	10921.2	12021.2	14059.4
45°	13956.1	14042.4	13378.4	11559.0	10740.9	10785.6	11283.2	11708.4	11634.5	12340.1	14563.1
47.5°	14338.2	14412.2	13683.5	11934.9	11765.4	12246.1	13007.1	13187.4	12374.0	12685.2	15019.1
50°	14495.3	14516.9	13779.0	12414.0	12928.6	14107.1	14900.5	14791.1	13221.3	13068.8	15504.4
52.5°	14700.2	14695.6	14051.7	12870.0	14022.4	15770.9	16562.8	16314.8	14179.5	13643.4	16049.8
55°	15237.9	15244.1	14635.5	13517.1	14954.4	17114.3	17961.7	17781.4	15190.1	14614.0	16686.1
57.5°	15891.1	15914.2	15465.9	14273.5	15844.9	18088.0	19006.2	18936.8	16556.6	15693.9	17286.9
59°	15975.8	16022.1	15858.8	14806.5	16373.3	18386.9	19363.6	19431.4	17288.4	16405.7	17611.9
60°	15821.8	15898.8	15972.8	15108.5	16683.0	18494.7	19385.2	19517.6	17838.4	16889.4	17759.8
62.5°	15150.1	15271.8	15643.1	16037.5	17069.7	18158.8	18696.5	18973.8	18519.3	18160.4	17773.7
65°	14270.4	14333.6	14869.7	16202.3	16319.4	16590.5	16756.9	17112.8	17701.3	18650.3	17137.4
67.5°	12828.4	13014.8	13671.1	15245.6	14105.6	13785.1	13743.5	13389.2	14917.5	17482.5	15569.1
70°	10597.7	10680.9	11489.7	12498.7	10645.4	10152.4	10349.6	10217.1	11563.6	15050.0	12531.1
72.5°	8014.1	8202.1	8992.4	9962.9	7243.8	6604.5	7148.3	7099.0	8685.8	12095.1	8608.8
75°	5701.7	5823.4	6830.9	7796.9	5073.1	4298.2	4493.9	4677.2	6063.7	9550.1	5087.0
77.5°	3917.7	4022.5	4778.9	5156.3	3700.5	3544.9	3242.9	3420.1	3973.2	5666.3	2768.4
80°	2363.3	2358.6	2856.2	2948.7	2577.4	2993.4	2511.1	2819.3	2401.8	2424.9	1072.2
82.5°	1534.4	1519.0	1747.0	1904.2	1434.3	1508.2	1012.2	1458.9	1565.2	676.3	338.9
85°	687.1	716.4	839.6	1107.7	628.6	334.3	206.4	448.3	667.1	340.5	0.0
87.5°	70.9	55.5	147.9	269.6	86.3	9.2	30.8	15.4	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°	6777.0	6777.0	6777.0	6777.0	6777.0	6777.0	6777.0	6777.0	6777.0	6777.0	6777.0
2.5°	7333.2	7243.8	6977.3	6727.7	6513.6	6251.7	6082.2	5815.7	5653.9	5604.6	5612.3
5°	7038.9	6781.6	6274.8	5869.6	5418.2	5161.0	4769.6	4393.7	4190.4	4114.9	4081.0
7.5°	6422.7	6146.9	5535.3	4899.1	4415.3	3963.9	3672.7	3341.5	3115.1	2928.6	2896.3
10°	5965.1	5603.1	4845.1	4161.1	3779.0	3440.1	3149.0	2817.7	2551.2	2338.6	2280.1
12.5°	5690.9	5285.7	4440.0	3866.9	3504.8	3156.7	2777.7	2394.1	2121.4	1891.8	1785.5
15°	5641.6	5171.7	4326.0	3655.8	3209.0	2788.5	2284.7	1870.3	1589.9	1372.7	1306.4
17.5°	5938.9	5376.6	4309.0	3435.5	2822.3	2226.1	1702.3	1358.8	1043.0	921.3	873.5
20°	6468.9	5738.7	4307.5	3179.8	2424.9	1714.7	1195.5	885.8	758.0	699.4	671.7
22.5°	7191.4	6231.7	4389.1	2959.5	2012.0	1264.8	853.5	705.6	631.6	583.9	573.1
25°	8074.2	6961.9	4589.4	2810.0	1696.2	992.1	704.0	603.9	542.3	520.7	511.5
27.5°	8858.4	7661.3	4809.7	2656.0	1469.7	878.1	653.2	553.1	503.8	486.8	473.0
30°	9534.7	8296.0	4916.0	2452.6	1287.9	804.2	662.5	591.6	526.9	476.0	452.9
32.5°	10098.5	8782.9	4985.3	2267.7	1133.9	657.8	523.8	457.6	428.3	409.8	394.4
35°	10804.1	9309.7	4943.7	2163.0	1055.3	599.3	477.6	394.4	345.1	308.1	292.7
37.5°	11543.6	9836.6	4871.3	2076.7	1019.9	556.2	454.5	374.4	320.4	281.9	261.9
40°	12309.3	10325.0	4786.6	1996.6	987.5	528.4	440.6	357.4	303.5	261.9	240.3
42.5°	13010.2	10801.0	4752.7	1944.2	935.1	533.0	429.8	349.7	286.5	243.4	224.9
45°	13577.2	11252.4	4798.9	1916.5	878.1	525.3	432.9	340.5	272.7	231.1	212.6
47.5°	14182.6	11890.2	4948.4	1888.8	822.7	488.4	456.0	338.9	266.5	223.4	203.4
50°	14886.7	12706.7	5290.4	1821.0	754.9	448.3	485.3	337.4	258.8	214.1	194.1
52.5°	15824.9	13634.2	5643.2	1702.3	656.3	409.8	463.7	332.8	243.4	203.4	183.3
55°	16667.6	14610.9	5942.0	1562.2	531.5	354.3	417.5	312.7	217.2	184.9	166.4
57.5°	17015.7	15162.4	5932.8	1368.0	425.2	311.2	343.5	286.5	189.5	163.3	147.9
59°	16887.9	15093.1	5734.0	1224.8	388.2	288.1	285.0	283.5	177.2	147.9	135.6
60°	16707.6	14840.4	5519.9	1153.9	365.1	272.7	261.9	280.4	166.4	138.7	126.3
62.5°	16017.4	13792.8	4809.7	1033.7	334.3	231.1	209.5	237.2	147.9	120.2	109.4
65°	15017.6	12182.9	4071.8	999.8	325.1	191.0	174.1	169.5	126.3	101.7	92.4
67.5°	13067.2	10309.6	3298.4	976.7	328.1	160.2	152.5	127.9	104.8	84.7	78.6
70°	10462.1	8038.8	2700.6	950.5	331.2	130.9	127.9	101.7	84.7	70.9	64.7
72.5°	6356.4	4765.0	2126.0	825.8	322.0	104.8	114.0	77.0	61.6	50.8	47.8
75°	3930.0	3261.4	1318.7	642.4	212.6	77.0	80.1	47.8	41.6	32.4	32.4
77.5°	2277.0	2059.8	471.4	231.1	94.0	46.2	35.4	24.6	23.1	13.9	13.9
80°	944.4	756.4	163.3	78.6	50.8	21.6	7.7	1.5	0.0	0.0	0.0
82.5°	275.8	245.0	44.7	35.4	15.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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°	6777.0	6777.0	6777.0	6777.0	6777.0	6777.0	6777.0	6777.0	6777.0	6777.0	6777.0
2.5°	5481.4	5430.6	5407.4	5486.0	5413.6	5506.0	5435.2	5466.0	5556.9	5596.9	5700.2
5°	4102.6	4050.2	4025.5	4144.2	4138.0	4196.5	4190.4	4244.3	4290.5	4187.3	4293.6
7.5°	2857.8	2822.3	2880.9	2973.3	3071.9	3039.6	3039.6	2967.2	2991.8	2976.4	2971.8
10°	2173.8	2052.1	2021.2	2018.2	2055.1	2062.8	2021.2	1921.1	1958.1	1968.9	2033.6
12.5°	1710.0	1616.1	1472.8	1408.1	1391.1	1405.0	1267.9	1180.1	1221.7	1197.0	1260.2
15°	1226.3	1149.3	1064.5	992.1	972.1	944.4	794.9	690.2	677.9	682.5	693.3
17.5°	875.1	822.7	822.7	745.6	704.0	620.9	545.4	499.1	494.5	499.1	506.9
20°	645.5	617.8	614.7	594.7	548.4	493.0	440.6	431.4	428.3	436.0	439.1
22.5°	556.2	526.9	502.2	500.7	457.6	411.3	386.7	374.4	375.9	379.0	386.7
25°	497.6	466.8	440.6	425.2	394.4	362.0	338.9	332.8	332.8	337.4	338.9
27.5°	456.0	417.5	394.4	372.8	345.1	317.4	297.3	292.7	289.6	292.7	300.4
30°	426.7	388.2	359.0	326.6	305.0	278.8	261.9	255.7	254.2	255.7	261.9
32.5°	365.1	342.0	318.9	289.6	263.4	246.5	228.0	217.2	217.2	220.3	226.5
35°	275.8	263.4	261.9	254.2	232.6	214.1	192.6	181.8	181.8	188.0	191.0
37.5°	243.4	220.3	217.2	214.1	204.9	180.2	160.2	151.0	149.4	154.1	160.2
40°	221.8	195.7	181.8	178.7	180.2	152.5	130.9	121.7	121.7	123.2	129.4
42.5°	204.9	174.1	149.4	146.4	152.5	127.9	106.3	97.1	97.1	97.1	104.8
45°	191.0	155.6	126.3	110.9	120.2	104.8	86.3	77.0	73.9	77.0	80.1
47.5°	181.8	141.7	110.9	89.4	89.4	83.2	69.3	58.5	55.5	57.0	61.6
50°	174.1	129.4	94.0	72.4	64.7	66.2	52.4	44.7	41.6	41.6	46.2
52.5°	161.8	117.1	81.7	61.6	49.3	44.7	38.5	32.4	30.8	32.4	35.4
55°	146.4	106.3	70.9	50.8	38.5	30.8	27.7	23.1	21.6	23.1	27.7
57.5°	129.4	89.4	57.0	40.1	26.2	20.0	18.5	15.4	12.3	13.9	16.9
59°	118.6	80.1	49.3	32.4	20.0	13.9	13.9	10.8	7.7	9.2	13.9
60°	114.0	73.9	41.6	27.7	16.9	10.8	10.8	7.7	4.6	6.2	10.8
62.5°	97.1	61.6	32.4	16.9	7.7	1.5	4.6	1.5	0.0	1.5	4.6
65°	81.7	49.3	21.6	7.7	0.0	0.0	0.0	0.0	0.0	0.0	1.5
67.5°	67.8	37.0	10.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	53.9	24.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	37.0	13.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	23.1	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	9.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	6777.0	6777.0	6777.0	6777.0	6777.0	6777.0	6777.0	6777.0	6777.0	6777.0
2.5°	5706.3	5926.6	6062.2	6317.9	6579.8	6781.6	7034.3	7260.8	7354.7	7404.0
5°	4401.4	4708.0	4968.4	5358.1	5720.2	6160.8	6607.6	7134.4	7336.3	7388.6
7.5°	3088.9	3401.6	3674.3	4125.7	4641.8	5231.8	5900.4	6569.0	6863.3	6946.5
10°	2230.8	2565.1	2897.8	3349.2	3831.4	4470.8	5167.1	5994.4	6333.3	6398.0
12.5°	1408.1	1767.0	2307.8	2865.5	3375.4	3890.0	4618.7	5518.4	5892.7	6011.4
15°	816.5	1084.6	1492.8	2220.0	2868.6	3549.5	4344.4	5339.7	5758.7	5880.4
17.5°	546.9	639.3	919.7	1475.9	2332.4	3235.2	4275.1	5486.0	5949.7	6105.3
20°	460.6	502.2	600.8	899.7	1796.3	2954.8	4293.6	5883.5	6492.0	6686.1
22.5°	405.2	443.7	506.9	647.0	1254.0	2606.7	4381.4	6452.0	7237.7	7485.7
25°	357.4	395.9	451.4	536.1	842.7	2204.6	4574.0	7283.9	8225.2	8497.9
27.5°	317.4	352.8	400.6	473.0	648.6	1756.3	4745.0	8094.2	9126.4	9348.3
30°	280.4	309.7	355.9	411.3	539.2	1354.2	4831.3	8802.9	9782.7	10029.2
32.5°	243.4	271.1	315.8	360.5	443.7	1032.2	4771.2	9323.6	10420.5	10577.6
35°	208.0	237.2	274.2	315.8	383.6	833.5	4470.8	9909.0	11081.4	11204.7
37.5°	178.7	203.4	241.9	274.2	346.6	667.1	4107.2	10435.9	11822.4	11999.6
40°	151.0	175.6	214.1	243.4	318.9	525.3	3779.0	11021.3	12603.5	12822.3
42.5°	123.2	152.5	186.4	234.2	274.2	400.6	3381.6	11495.8	13190.5	13464.7
45°	98.6	130.9	167.9	232.6	238.8	305.0	2998.0	11865.6	13709.6	13956.1
47.5°	78.6	110.9	161.8	217.2	195.7	241.9	2779.2	12252.3	14141.0	14338.2
50°	63.2	92.4	169.5	191.0	163.3	204.9	2773.0	12683.6	14364.4	14495.3
52.5°	50.8	75.5	143.3	146.4	138.7	180.2	2939.4	13168.9	14592.4	14700.2
55°	43.1	63.2	94.0	107.8	124.8	163.3	3064.2	13916.1	15136.2	15237.9
57.5°	33.9	53.9	72.4	86.3	110.9	149.4	3081.2	14492.3	15824.9	15891.1
59°	29.3	46.2	64.7	77.0	101.7	140.2	3011.8	14527.7	15869.5	15975.8
60°	24.6	41.6	57.0	72.4	94.0	132.5	2936.4	14270.4	15703.2	15821.8
62.5°	18.5	32.4	41.6	58.5	77.0	114.0	2578.9	13372.3	15066.9	15150.1
65°	12.3	23.1	30.8	43.1	60.1	98.6	2101.4	12207.6	14084.0	14270.4
67.5°	7.7	16.9	24.6	32.4	49.3	83.2	1497.4	10468.3	12708.3	12828.4
70°	4.6	10.8	18.5	26.2	38.5	66.2	888.9	8274.5	10573.0	10597.7
72.5°	3.1	7.7	12.3	18.5	30.8	60.1	431.4	5393.6	7719.9	8014.1
75°	1.5	4.6	7.7	13.9	24.6	49.3	206.4	3603.4	5617.0	5701.7
77.5°	0.0	1.5	4.6	9.2	18.5	38.5	120.2	2366.3	3829.9	3917.7
80°	0.0	0.0	3.1	7.7	13.9	24.6	72.4	1395.8	2320.1	2363.3
82.5°	0.0	0.0	1.5	6.2	9.2	18.5	37.0	613.2	1519.0	1534.4
85°	0.0	0.0	1.5	6.2	7.7	12.3	13.9	83.2	674.8	687.1
87.5°	0.0	0.0	1.5	7.7	7.7	7.7	7.7	4.6	57.0	70.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)