

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: P269090

Luminaire Tested: **GLEON-AF-02-LED-E1-SLL-7027-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269090  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24296)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-02-LED-E1-SLL-7027-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 2700K, 615mA 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: 6126.4 lumens  
Efficiency: N/A  
Efficacy: 92.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B1 - U0 - G2

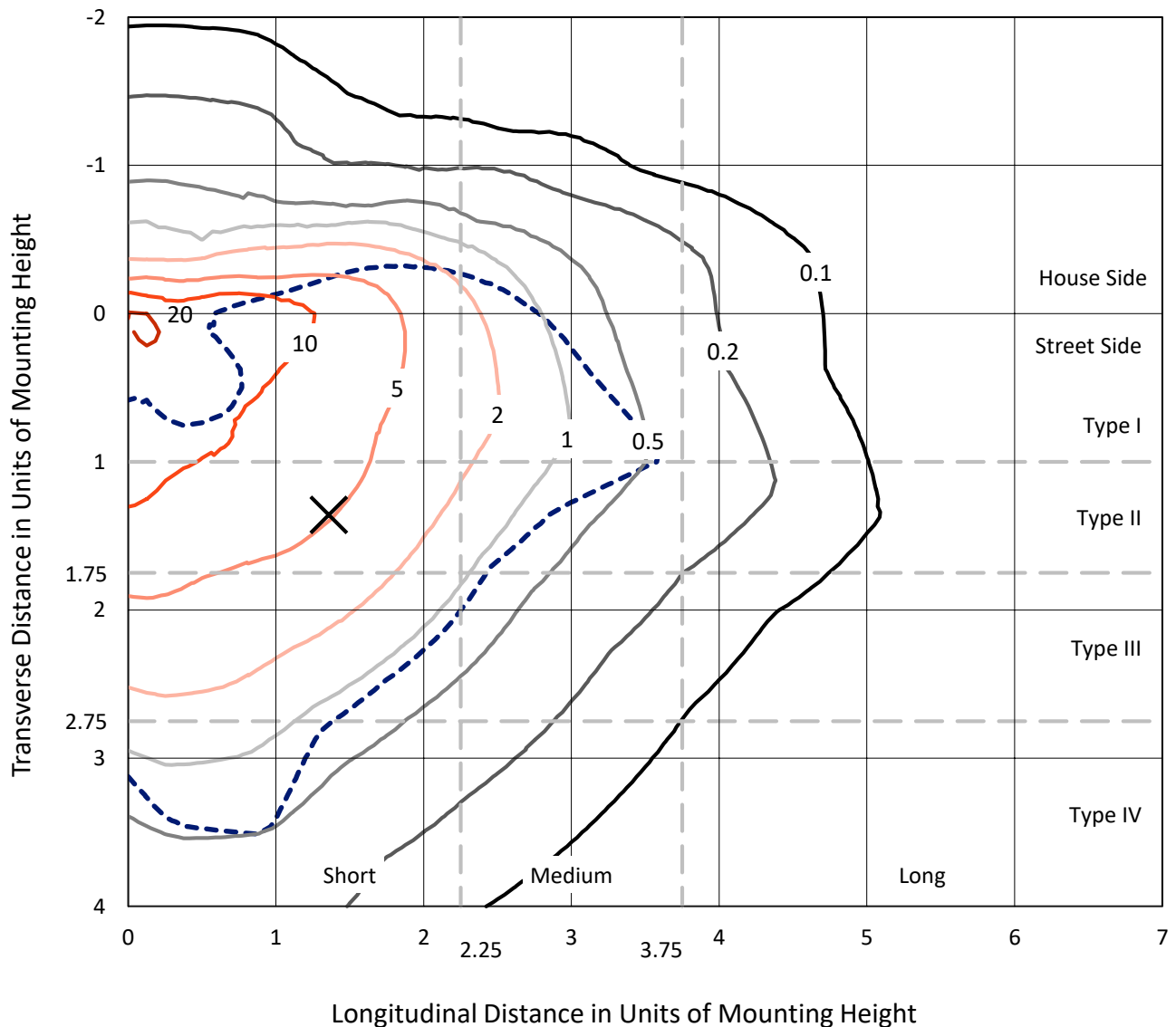
Input Watts (W): 66  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

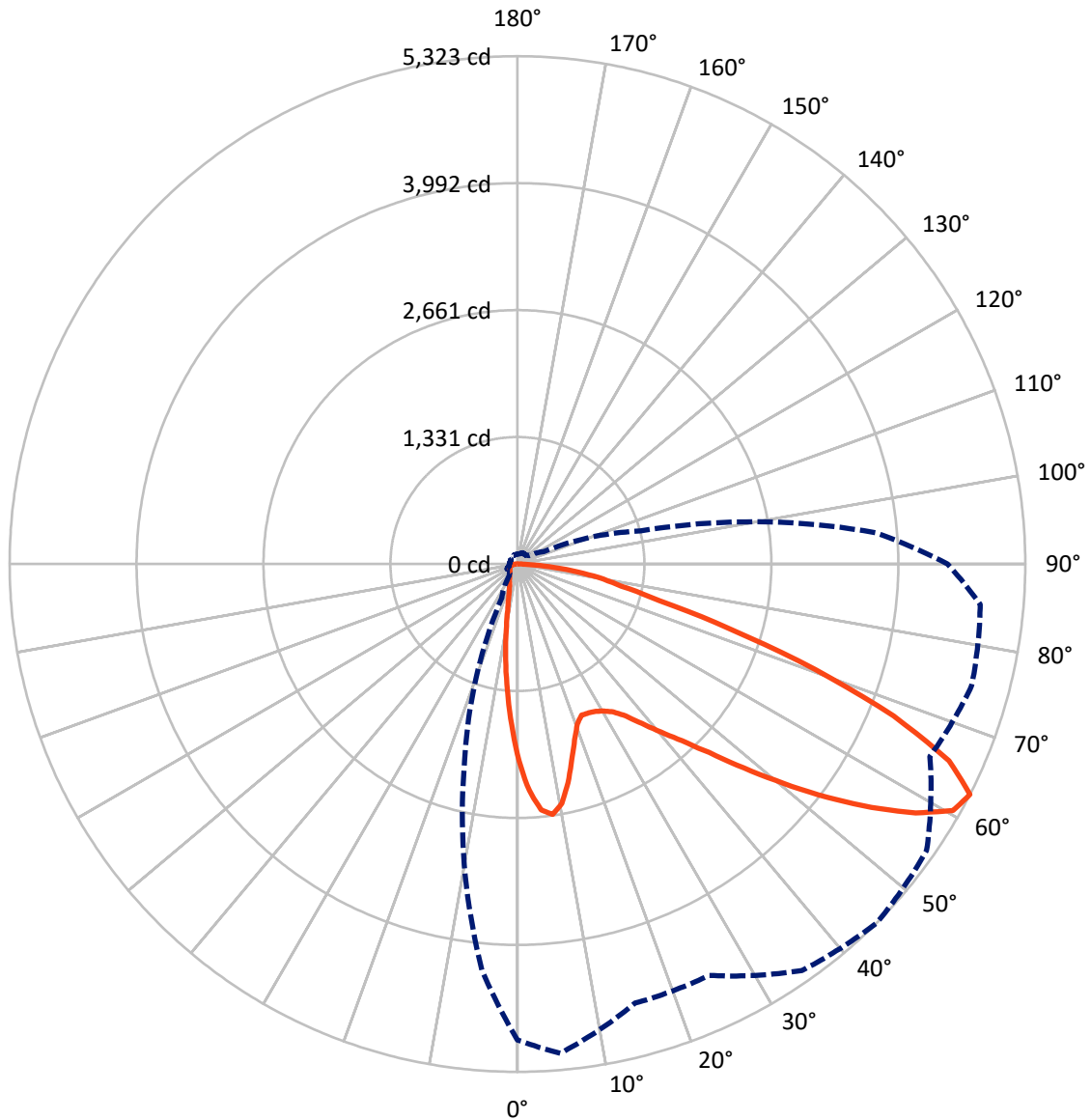
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 24.4 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 62.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1013.8	0.0	1013.8
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	5112.6	0.0	5112.6
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	6126.4	0.0	6126.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	150.7	2.5
10°-20°	276.3	4.5
20°-30°	402.8	6.6
30°-40°	620.4	10.1
40°-50°	913.1	14.9
50°-60°	1339.3	21.9
60°-70°	1497.2	24.4
70°-80°	733.0	12.0
80°-90°	193.5	3.2
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°	6126.4	100.0
0°-180°	6126.4	100.0



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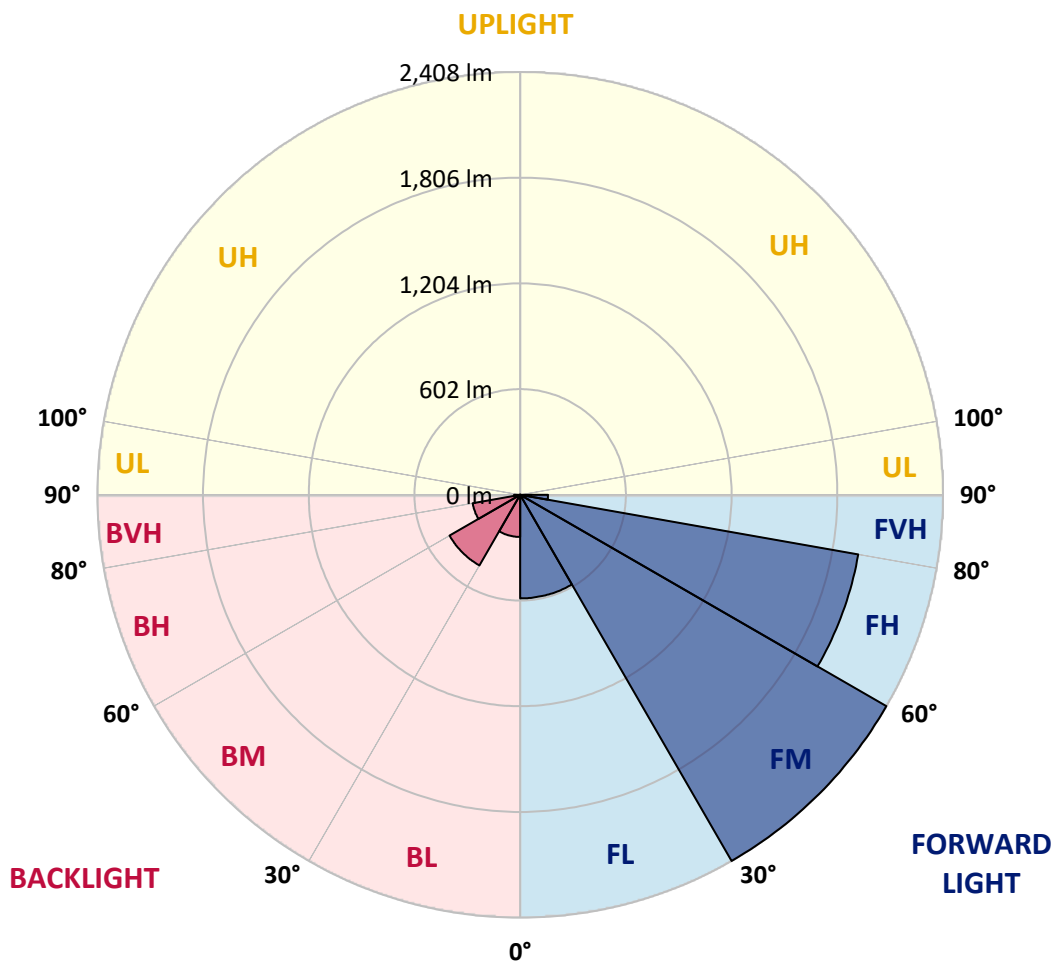
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	590.0	9.6			
FM	(30°-60°)	2408.3	39.3			
FH	(60°-80°)	1955.3	31.9			G2/5000
FVH	(80°-90°)	158.9	2.6			G2/225
BL	(0°-30°)	239.9	3.9	B1/500		
BM	(30°-60°)	464.5	7.6	B1/1000		
BH	(60°-80°)	274.8	4.5	B1/500		G1/500
BVH	(80°-90°)	34.6	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2069.9	2069.9	2069.9	2069.9	2069.9	2069.9	2069.9	2069.9	2069.9	2069.9	2069.9
2.5°	2150.6	2184.9	2252.1	2302.1	2363.3	2377.4	2396.9	2377.6	2343.6	2298.6	2283.8
5°	2022.4	2095.7	2258.3	2401.6	2528.9	2588.1	2604.6	2555.8	2457.1	2327.5	2248.3
7.5°	1816.6	1920.9	2141.2	2352.0	2539.7	2650.4	2647.8	2534.3	2352.8	2141.6	2014.5
10°	1639.0	1758.3	2010.9	2246.7	2445.6	2553.2	2511.8	2366.6	2150.0	1906.8	1769.1
12.5°	1539.8	1656.7	1912.9	2149.6	2316.0	2353.1	2321.4	2179.3	1975.3	1729.3	1608.8
15°	1522.5	1650.8	1873.9	2066.6	2159.7	2127.5	2089.6	2026.0	1881.9	1672.0	1546.5
17.5°	1596.9	1738.4	1918.6	2008.5	1992.7	1936.4	1925.6	1932.8	1898.1	1735.7	1591.0
20°	1739.7	1909.5	2025.4	1981.2	1865.7	1788.3	1791.0	1899.0	2001.9	1897.1	1731.8
22.5°	1940.2	2133.8	2179.3	1995.8	1812.2	1720.3	1742.5	1917.6	2167.2	2132.8	1921.7
25°	2199.5	2375.9	2343.3	2048.2	1817.6	1728.7	1746.6	1981.7	2362.5	2368.6	2156.7
27.5°	2450.8	2614.3	2480.9	2118.1	1839.8	1748.6	1772.1	2082.4	2549.1	2624.5	2425.5
30°	2646.8	2760.5	2535.6	2181.7	1883.6	1787.3	1816.6	2177.9	2633.9	2797.2	2632.3
32.5°	2809.1	2890.8	2622.5	2260.4	1964.1	1848.3	1899.7	2294.1	2756.2	2961.6	2834.6
35°	3016.5	3039.8	2730.6	2348.3	2088.4	1954.4	2018.3	2407.9	2872.7	3127.7	3034.0
37.5°	3259.7	3229.6	2832.6	2468.6	2248.9	2120.4	2173.2	2533.0	2968.7	3316.0	3237.9
40°	3500.2	3428.0	2960.6	2655.1	2483.4	2316.0	2378.6	2666.3	3058.3	3504.5	3436.8
42.5°	3704.5	3597.8	3086.8	2860.3	2701.7	2532.0	2606.6	2800.6	3143.8	3665.4	3609.6
45°	3855.7	3723.0	3207.0	3057.2	3002.3	2818.8	2854.2	2954.5	3236.5	3799.8	3751.7
47.5°	3990.8	3849.0	3343.2	3255.9	3265.3	3191.9	3135.1	3133.6	3345.6	3909.7	3886.1
50°	4171.6	4023.8	3489.3	3460.7	3660.1	3611.2	3485.7	3342.9	3483.5	4034.3	4031.6
52.5°	4420.9	4300.6	3667.8	3681.3	4028.4	4060.5	3904.9	3594.1	3699.8	4262.9	4246.7
55°	4715.6	4645.6	3911.0	3934.8	4480.4	4503.4	4348.9	3908.3	4017.8	4594.0	4549.1
57.5°	4945.6	4930.7	4177.7	4239.3	4817.9	4920.9	4778.9	4272.0	4376.1	4872.9	4760.4
60°	5037.2	5108.9	4461.6	4546.5	5130.1	5244.2	5119.7	4591.5	4693.6	4988.4	4745.8
62.5°	4987.7	5147.9	4764.0	4757.0	5199.7	5322.7	5235.2	4769.5	4929.1	4869.2	4505.8
65°	4759.0	5007.5	4939.5	4702.7	4961.3	4971.5	4943.3	4690.0	4984.6	4492.2	4041.7
67.5°	4260.9	4618.5	4708.5	4238.1	4318.2	4252.4	4205.0	4254.8	4695.0	3927.5	3396.8
70°	3470.5	4008.6	4051.7	3389.7	3353.4	3309.1	3214.6	3488.4	4123.5	3218.8	2695.3
72.5°	2551.7	3117.6	3249.9	2486.1	2317.6	2326.8	2252.1	2628.9	3352.7	2391.1	2012.3
75°	1745.9	2257.4	2542.7	1734.7	1532.7	1536.5	1526.9	1862.7	2670.3	1663.3	1505.6
77.5°	1275.4	1612.8	1917.6	1166.3	1132.3	1111.4	1106.4	1303.4	2047.2	1207.7	1169.4
80°	1023.4	1191.5	1288.2	808.2	869.2	867.6	839.6	896.1	1336.9	883.4	874.6
82.5°	709.9	915.7	1043.7	633.5	586.7	576.9	583.5	667.5	944.9	603.8	574.1
85°	374.6	608.2	1033.6	561.4	348.3	277.8	345.6	546.6	818.7	319.9	280.2
87.5°	47.8	175.8	684.2	223.9	137.4	74.1	164.0	307.8	525.7	65.3	57.0
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	2069.9	2069.9	2069.9	2069.9	2069.9	2069.9	2069.9	2069.9	2069.9	2069.9	2069.9
2.5°	2245.7	2200.8	2142.3	2088.0	2031.7	1975.9	1902.8	1856.9	1825.4	1819.2	1805.9
5°	2191.1	2042.1	1929.6	1832.5	1744.1	1619.6	1550.6	1493.3	1462.6	1459.6	1452.2
7.5°	1939.5	1734.1	1582.2	1444.5	1319.5	1218.8	1107.7	1055.8	1034.6	1039.6	1044.6
10°	1677.9	1448.2	1273.6	1132.9	1022.8	937.9	848.7	788.4	746.6	738.1	736.5
12.5°	1486.5	1234.6	1065.2	965.9	880.7	800.8	706.2	635.1	580.9	562.3	549.9
15°	1405.7	1130.2	952.7	845.7	751.7	650.4	562.3	488.0	438.2	421.9	413.0
17.5°	1422.8	1101.2	875.3	738.1	617.9	512.3	401.5	337.9	307.8	300.0	300.0
20°	1513.1	1095.8	811.3	639.2	489.3	366.8	275.8	239.5	229.6	228.7	231.4
22.5°	1639.8	1114.7	763.5	553.4	380.3	267.8	214.9	201.4	197.0	198.0	201.0
25°	1828.4	1178.3	728.7	476.9	298.3	219.2	191.6	183.6	181.5	184.2	187.9
27.5°	2052.0	1242.0	707.2	419.2	252.0	200.4	182.1	173.8	175.1	178.6	181.8
30°	2248.3	1294.3	673.2	378.1	237.4	201.4	182.1	170.8	169.4	170.0	171.0
32.5°	2424.4	1329.6	633.5	339.1	204.8	178.9	170.0	168.4	160.9	158.3	158.6
35°	2576.3	1329.6	609.6	316.3	183.6	158.6	144.4	136.1	132.4	132.7	136.5
37.5°	2722.9	1303.0	597.8	303.4	172.0	150.8	138.3	131.1	125.9	125.0	125.7
40°	2852.2	1264.3	584.3	298.1	163.3	146.2	134.3	128.3	122.9	121.2	121.6
42.5°	2956.0	1233.0	569.4	291.1	157.9	142.8	131.7	126.3	120.3	118.5	118.1
45°	3068.0	1222.6	549.9	276.9	160.6	143.1	131.1	125.3	119.3	117.1	116.5
47.5°	3215.9	1255.1	529.7	260.0	166.4	144.7	132.1	125.3	118.8	117.1	116.5
50°	3402.2	1331.9	504.2	235.4	160.6	149.6	131.7	124.2	118.8	117.1	115.8
52.5°	3641.2	1435.8	470.5	207.1	157.3	160.9	131.1	122.3	117.1	114.9	112.5
55°	3931.9	1520.6	430.4	183.9	149.6	157.9	130.0	120.0	114.5	111.1	109.1
57.5°	4144.7	1551.3	378.8	168.7	138.8	152.9	128.6	116.9	111.1	108.4	105.7
60°	4102.6	1491.9	335.4	159.3	132.4	138.1	127.6	114.2	108.1	106.1	103.8
62.5°	3765.4	1336.9	307.5	154.9	128.3	125.9	128.6	111.5	105.5	103.3	102.8
65°	3259.9	1108.2	296.4	153.9	125.0	118.8	119.6	108.4	102.3	100.7	100.0
67.5°	2689.2	894.5	286.6	157.3	120.6	113.8	110.4	104.5	99.4	97.6	96.3
70°	2120.7	743.9	282.2	155.2	115.3	108.8	105.1	100.0	95.6	94.0	93.0
72.5°	1707.8	628.5	279.8	153.3	108.1	102.0	98.6	94.3	89.7	88.9	87.9
75°	1445.2	494.1	256.2	146.9	100.0	94.0	91.5	87.6	82.9	82.9	82.1
77.5°	1114.7	357.3	213.2	130.0	91.5	84.9	82.9	79.8	74.4	75.5	75.1
80°	823.4	233.0	166.6	107.7	81.1	74.7	73.8	70.7	64.9	66.4	66.4
82.5°	564.0	152.9	120.0	88.3	69.3	63.3	63.3	60.2	53.9	54.5	56.6
85°	283.2	105.1	89.7	68.5	53.9	50.8	50.8	48.5	42.1	42.4	45.2
87.5°	86.1	63.3	59.3	48.9	38.7	38.1	36.4	34.7	30.6	30.4	32.0
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):**

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	2069.9	2069.9	2069.9	2069.9	2069.9	2069.9	2069.9	2069.9	2069.9	2069.9	2069.9
2.5°	1785.2	1766.1	1742.8	1691.6	1674.4	1673.5	1689.0	1672.7	1703.7	1690.6	1705.2
5°	1439.8	1420.8	1394.9	1329.6	1289.8	1262.8	1250.1	1212.4	1239.8	1219.8	1236.2
7.5°	1058.8	1063.2	1046.0	1007.5	921.1	877.6	852.0	829.1	849.0	847.0	878.6
10°	744.2	756.1	743.9	705.2	635.1	611.2	616.0	625.1	651.0	664.4	713.3
12.5°	535.7	535.1	527.3	492.7	446.5	449.2	468.5	484.2	508.3	522.4	572.2
15°	400.0	394.0	390.7	362.3	336.1	341.9	351.2	352.9	368.0	376.5	417.0
17.5°	302.4	305.5	309.1	289.0	269.1	265.4	258.0	248.9	253.2	254.9	275.2
20°	240.1	252.2	261.3	247.3	227.0	216.2	206.8	200.7	200.7	200.4	206.2
22.5°	209.8	218.6	228.3	218.6	200.4	191.0	185.6	180.9	180.2	180.2	185.6
25°	193.3	199.8	209.1	202.4	189.0	181.8	176.7	170.8	168.4	167.8	171.4
27.5°	185.2	187.9	192.6	186.6	175.1	171.8	170.4	165.0	162.0	160.3	164.0
30°	171.4	170.8	171.0	165.0	155.9	155.5	157.9	159.0	157.9	157.7	163.3
32.5°	158.6	157.3	156.9	151.5	143.1	141.2	143.1	145.2	147.5	150.8	157.7
35°	142.4	145.9	147.9	143.1	132.9	127.0	124.7	120.9	118.8	118.8	126.7
37.5°	129.6	137.4	140.4	136.1	125.0	116.5	112.5	111.7	112.2	113.5	120.9
40°	125.3	131.1	133.7	129.4	118.1	110.4	108.1	107.4	108.1	110.1	117.6
42.5°	122.6	126.7	126.3	120.9	111.7	106.4	105.1	104.5	105.1	107.1	115.3
45°	120.3	122.9	120.3	113.8	105.5	102.8	103.0	102.8	103.3	105.5	113.1
47.5°	118.1	119.3	115.8	109.5	100.7	100.0	101.4	102.3	103.0	104.7	112.7
50°	115.3	115.3	112.2	105.5	96.7	96.9	98.6	101.0	101.4	103.3	109.9
52.5°	111.5	111.1	109.1	102.8	93.2	94.3	94.3	96.9	97.6	100.0	106.8
55°	108.4	107.7	106.8	100.7	90.3	91.9	90.9	91.9	93.7	95.9	103.3
57.5°	105.7	104.5	104.5	99.1	87.9	88.6	86.1	87.6	89.7	91.5	99.4
60°	103.0	101.7	102.3	96.7	84.3	83.5	82.6	85.2	85.9	88.3	95.9
62.5°	100.0	99.1	99.4	94.0	81.4	79.8	79.8	82.1	82.6	85.9	93.2
65°	97.6	96.3	95.9	91.3	78.4	76.4	77.4	78.4	79.1	82.6	89.7
67.5°	95.3	92.6	92.6	88.9	75.1	73.1	75.1	74.7	75.7	78.8	84.5
70°	92.3	88.6	88.9	87.2	71.8	69.3	71.1	70.7	71.3	73.4	79.1
72.5°	87.6	84.5	85.2	84.5	68.5	64.9	65.7	65.7	65.7	67.4	73.4
75°	81.4	79.1	81.1	82.9	64.3	59.6	60.2	60.2	59.3	60.2	67.7
77.5°	74.1	72.8	79.5	77.2	59.6	53.9	53.9	53.2	51.3	52.6	60.6
80°	66.0	64.9	73.4	64.7	54.2	46.8	46.2	44.5	42.4	43.5	51.6
82.5°	57.6	56.6	61.7	49.4	46.8	38.7	37.0	34.0	32.0	33.0	40.5
85°	47.2	47.2	47.5	37.4	35.8	29.6	27.6	23.5	21.2	21.9	28.9
87.5°	33.6	34.7	32.0	25.6	21.2	16.4	15.1	12.8	10.8	12.4	15.1
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):**

	295°	305°	315°	325°	335°	345°	355°	360°
0°	2069.9	2069.9	2069.9	2069.9	2069.9	2069.9	2069.9	2069.9
2.5°	1779.3	1816.3	1858.4	1912.2	1958.3	2034.1	2106.9	2150.6
5°	1330.3	1392.0	1468.6	1567.4	1659.3	1797.4	1934.4	2022.4
7.5°	952.1	1018.0	1101.0	1224.2	1354.1	1530.4	1711.5	1816.6
10°	787.8	855.5	925.2	1008.3	1114.7	1306.3	1520.6	1639.0
12.5°	651.7	724.0	799.2	886.7	985.4	1156.5	1403.3	1539.8
15°	498.7	579.5	668.2	779.0	902.5	1100.2	1374.3	1522.5
17.5°	341.9	432.1	540.9	677.6	828.7	1082.1	1426.2	1596.9
20°	235.4	301.1	417.3	577.6	759.4	1079.8	1526.0	1739.7
22.5°	197.0	226.4	311.3	485.7	707.2	1108.7	1680.5	1940.2
25°	182.1	199.8	248.6	405.9	669.1	1175.3	1893.4	2199.5
27.5°	173.5	189.3	225.7	353.7	639.2	1252.7	2100.4	2450.8
30°	176.7	193.0	219.2	327.1	598.5	1317.5	2284.4	2646.8
32.5°	159.3	166.4	187.9	303.4	569.2	1371.7	2445.4	2809.1
35°	135.7	148.2	167.8	292.3	569.9	1408.1	2620.7	3016.5
37.5°	129.4	141.8	155.9	288.3	577.6	1446.8	2822.1	3259.7
40°	125.3	136.7	148.8	285.9	584.9	1482.2	3019.6	3500.2
42.5°	122.6	132.9	148.2	277.8	588.7	1513.9	3181.8	3704.5
45°	122.3	132.9	150.8	269.8	594.4	1547.8	3317.9	3855.7
47.5°	122.6	137.4	145.9	260.0	594.4	1604.7	3477.6	3990.8
50°	121.2	144.7	140.4	246.1	580.7	1712.4	3696.4	4171.6
52.5°	120.6	143.8	130.0	224.9	556.7	1883.6	3976.9	4420.9
55°	118.8	138.8	122.6	193.3	528.7	2070.1	4277.4	4715.6
57.5°	117.1	122.9	118.5	165.6	485.7	2201.4	4484.2	4945.6
60°	131.3	107.4	115.3	152.3	428.0	2237.6	4476.2	5037.2
62.5°	121.6	100.7	110.9	149.2	387.6	2136.4	4269.4	4987.7
65°	95.3	96.3	106.4	157.9	376.8	1868.7	3902.9	4759.0
67.5°	87.2	91.9	102.0	169.2	377.8	1496.2	3355.3	4260.9
70°	82.1	87.2	96.9	174.8	380.5	1115.4	2652.8	3470.5
72.5°	76.4	80.8	91.3	175.8	363.1	810.4	2044.5	2551.7
75°	69.7	73.8	83.3	153.3	300.8	562.1	1563.9	1745.9
77.5°	62.0	64.9	73.1	118.1	223.3	359.7	1174.1	1275.4
80°	52.9	54.5	61.3	86.5	152.9	224.9	928.8	1023.4
82.5°	42.4	43.1	47.5	64.9	99.4	144.4	622.0	709.9
85°	30.0	30.0	32.7	47.2	67.7	91.5	337.9	374.6
87.5°	14.2	14.6	14.6	26.0	35.4	46.5	77.9	47.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)