

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: P950446

Luminaire Tested: **GALN-SB4D-927-U-SLL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P950446  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB4D-927-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 90 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

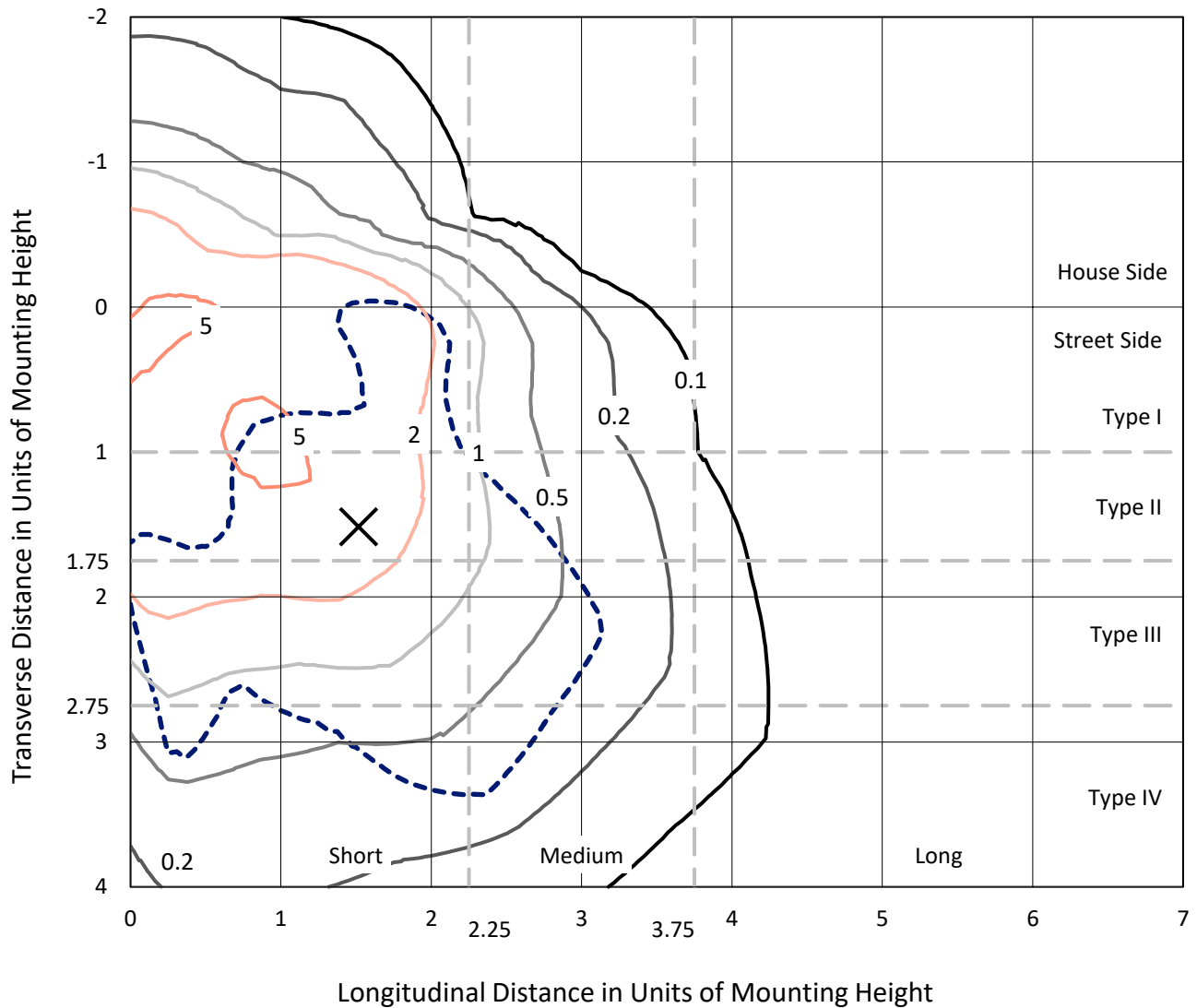
Lumens per Lamp: N/A  
Luminaire Lumens: 18946 lumens  
Efficiency: N/A  
Efficacy: 64.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 293.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

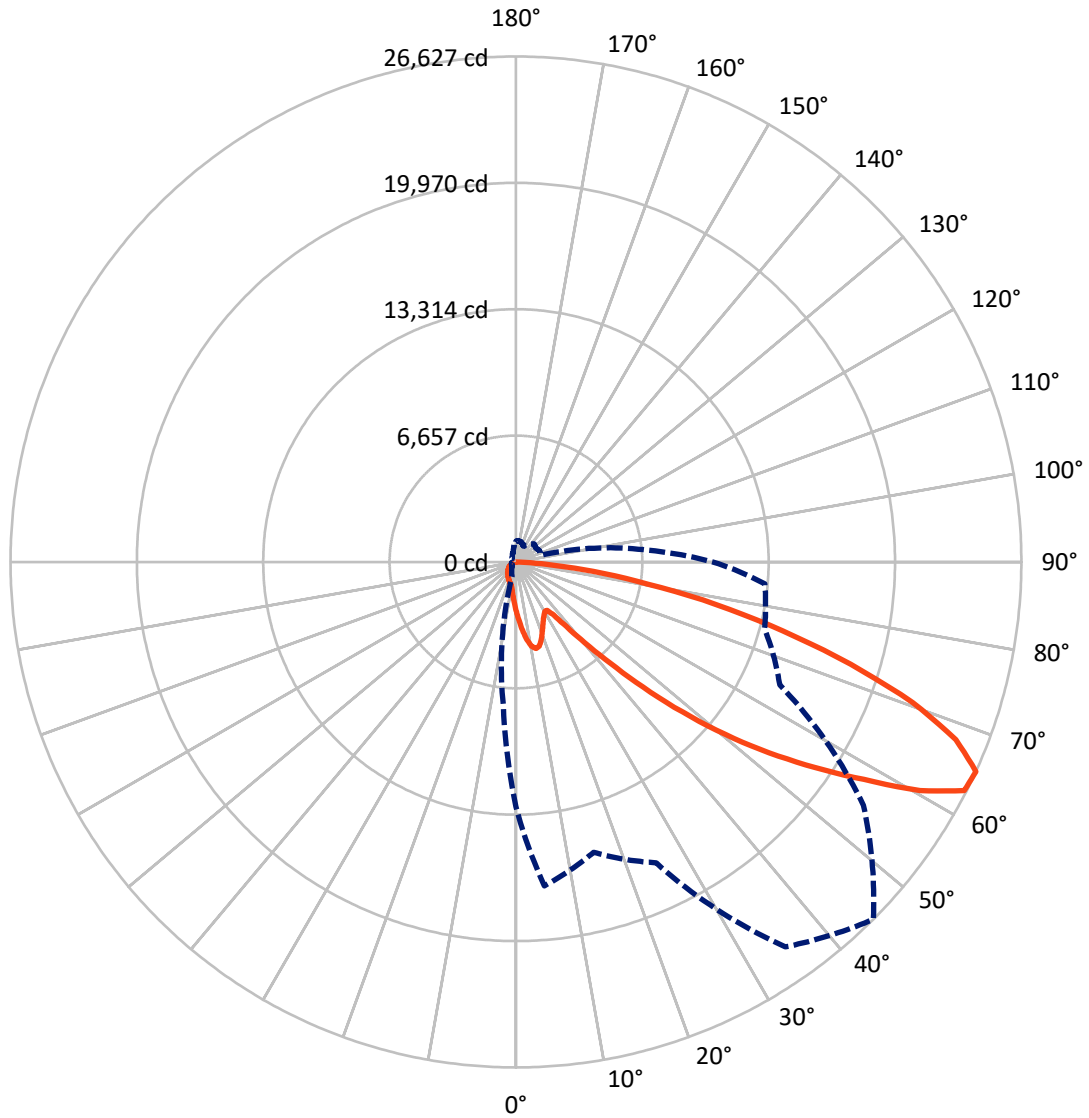
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3765.9	0.0	3765.9
	% Fixture	19.9	0.0	19.9
<b>Street Side</b>	Lumens	15180.1	0.0	15180.1
	% Fixture	80.1	0.0	80.1
<b>Total</b>	Lumens	18946.0	0.0	18946.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	258.3	1.4
10°-20°	774.3	4.1
20°-30°	1140.6	6.0
30°-40°	1465.4	7.7
40°-50°	2370.0	12.5
50°-60°	4156.0	21.9
60°-70°	5200.3	27.4
70°-80°	3038.8	16.0
80°-90°	542.2	2.9
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°	18946.0	100.0
0°-180°	18946.0	100.0

**Coefficient of Utilization**



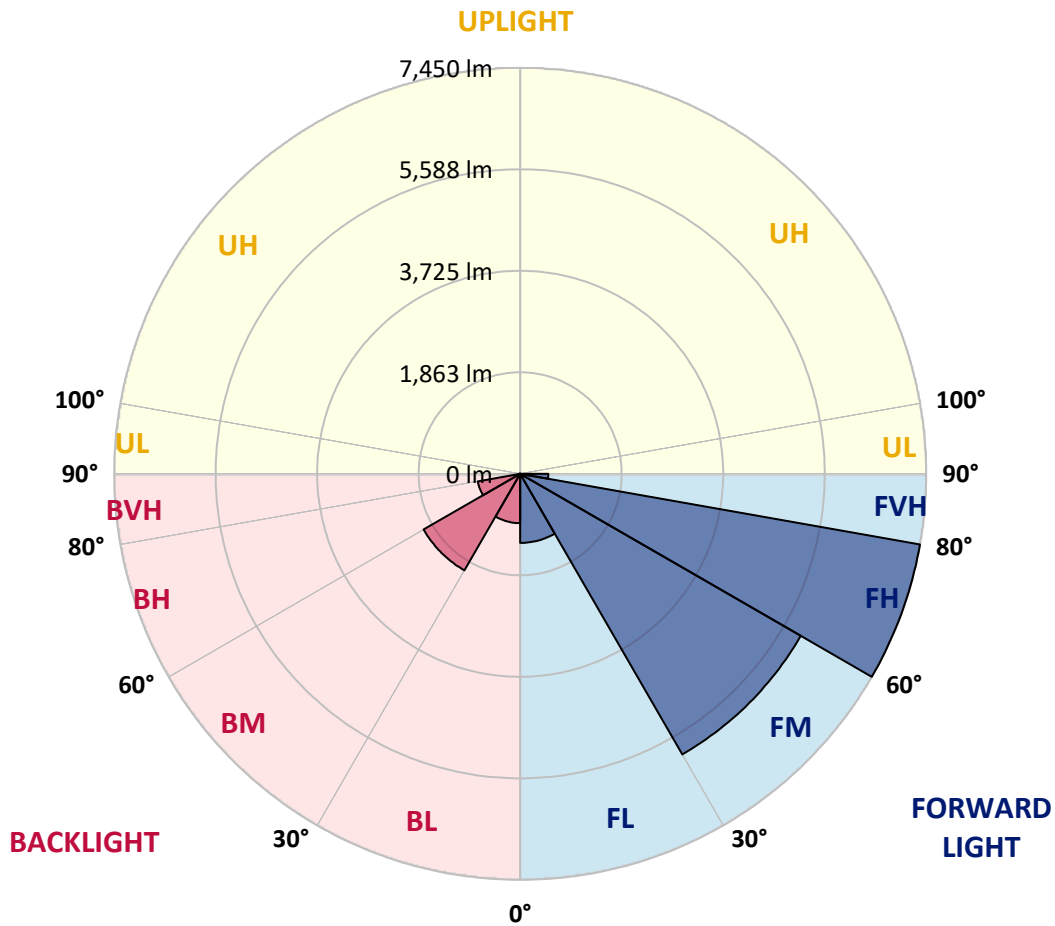
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1267.7	6.7			
FM (30°-60°)	5945.5	31.4			
FH (60°-80°)	7450.2	39.3			G3/7500
FVH (80°-90°)	516.8	2.7			G4/750
BL (0°-30°)	905.5	4.8	B2/1000		
BM (30°-60°)	2046.0	10.8	B2/2500		
BH (60°-80°)	789.0	4.2	B2/1000		G2/1000
BVH (80°-90°)	25.4	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2623.4	2623.4	2623.4	2623.4	2623.4	2623.4	2623.4	2623.4	2623.4	2623.4
2.5°	2939.3	2961.5	3011.1	3037.2	3077.6	3080.2	3080.2	3045.0	3043.7	2971.9
5°	3285.1	3337.3	3454.8	3576.2	3602.3	3608.8	3595.8	3525.3	3473.1	3333.4
7.5°	3628.4	3728.9	3907.7	4069.6	4121.8	4121.8	4090.4	3975.6	3868.6	3666.3
10°	3912.9	4039.5	4282.3	4463.7	4523.8	4510.7	4446.8	4301.9	4154.4	3909.0
12.5°	4100.9	4243.1	4509.4	4655.6	4716.9	4683.0	4609.9	4468.9	4313.6	4055.2
15°	4194.9	4343.6	4574.7	4651.7	4634.7	4599.5	4590.3	4522.5	4405.0	4163.5
17.5°	4235.3	4373.7	4534.2	4485.9	4342.3	4314.9	4406.3	4492.4	4463.7	4257.5
20°	4273.2	4389.3	4437.6	4223.6	3973.0	3948.2	4123.1	4368.4	4493.7	4344.9
22.5°	4325.4	4397.2	4298.0	3946.9	3676.7	3619.3	3812.4	4181.8	4502.9	4455.9
25°	4397.2	4416.7	4144.0	3684.5	3413.0	3355.6	3535.7	3974.3	4487.2	4576.0
27.5°	4483.3	4442.8	3996.5	3465.3	3202.9	3149.4	3329.5	3774.6	4442.8	4696.0
30°	4595.5	4476.8	3850.3	3295.6	3052.8	3013.7	3187.3	3602.3	4388.0	4848.7
32.5°	4709.1	4491.1	3714.5	3196.4	3018.9	3033.2	3175.5	3509.6	4328.0	4994.9
35°	4831.8	4536.8	3648.0	3294.3	3302.1	3427.4	3486.1	3595.8	4318.8	5193.3
37.5°	4998.8	4638.6	3727.6	3781.1	4052.6	4312.3	4264.0	4017.3	4424.6	5489.6
40°	5239.0	4817.4	4074.8	4609.9	5167.2	5588.8	5404.8	4783.5	4748.3	5916.4
42.5°	5588.8	5102.0	4690.8	5622.7	6567.7	7262.0	6768.7	5771.5	5314.7	6525.9
45°	6105.6	5562.7	5436.1	6691.7	8294.4	9388.2	8362.3	6824.8	6108.2	7448.7
47.5°	6822.2	6240.1	6134.4	7818.0	10393.2	11808.0	10129.5	7801.1	7011.4	8706.9
50°	7773.7	7152.4	6796.1	9050.1	12694.2	14274.8	11895.4	8743.4	8046.4	10244.4
52.5°	9029.2	8424.9	7567.4	10223.5	15060.5	16689.4	13669.2	9570.9	9330.7	12028.6
55°	10741.6	10339.6	8622.0	11343.3	17425.5	19118.3	15373.7	10351.4	11027.5	14148.2
57.5°	12866.5	13153.6	10142.6	12642.0	19551.6	21621.6	17086.1	11442.5	13230.6	16518.4
60°	14236.9	16895.6	13054.4	14561.9	21967.5	24452.6	19432.8	13517.8	15546.0	17368.0
62.5°	13905.4	18085.9	16541.9	17013.0	24188.9	26510.8	21732.6	15602.1	15981.9	16116.4
65°	12888.7	17125.3	15830.5	17489.4	24751.5	26627.0	22347.3	15333.3	13556.9	13157.5
67.5°	11489.5	15985.9	14140.3	16226.0	23734.7	25003.4	21202.7	13563.4	10476.7	9873.7
70°	9979.4	14725.1	13030.9	14808.6	21796.5	22173.7	19256.6	11929.4	7705.8	6668.2
72.5°	8546.3	13412.0	12271.3	13355.9	19211.0	18430.5	16723.3	10484.5	5611.0	4809.6
75°	7080.6	11475.2	11189.3	11630.5	15811.0	14517.5	13895.0	8680.8	4403.7	3479.6
77.5°	5463.5	8966.6	9624.4	9313.8	11129.3	10783.4	10770.4	6523.3	3217.3	2321.9
80°	3739.3	6249.2	7519.2	6570.3	7222.9	7046.7	8111.7	4376.3	2333.7	1397.8
82.5°	2197.9	3804.6	5233.8	3180.7	3993.9	4099.6	4830.5	2128.8	1373.1	322.4
85°	891.4	1502.3	2046.5	1245.1	1926.4	1625.0	1833.8	597.8	382.4	7.8
87.5°	224.5	480.3	336.7	139.7	223.2	204.9	161.8	73.1	15.7	0.0
90°	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°
2623.4	0°	2623.4	2623.4	2623.4	2623.4	2623.4	2623.4	2623.4	2623.4	2623.4	2623.4
2964.1	2.5°	2913.2	2883.1	2808.8	2734.4	2674.3	2593.4	2539.9	2475.9	2414.6	2359.8
3303.4	5°	3221.2	3122.0	2986.3	2862.3	2735.7	2613.0	2491.6	2363.7	2246.2	2174.4
3590.6	7.5°	3471.8	3296.9	3116.8	2958.8	2806.1	2662.6	2502.0	2346.7	2162.7	2064.8
3809.8	10°	3658.4	3428.7	3192.5	3011.1	2857.0	2717.4	2581.6	2425.0	2203.1	2080.5
3943.0	12.5°	3781.1	3508.3	3231.6	3024.1	2851.8	2743.5	2683.5	2622.1	2401.5	2258.0
4040.8	15°	3865.9	3564.5	3259.0	2994.1	2782.6	2703.0	2763.1	2833.5	2692.6	2526.8
4142.6	17.5°	3958.6	3637.5	3270.8	2913.2	2648.2	2614.3	2769.6	2932.7	2926.2	2761.8
4239.2	20°	4056.5	3701.5	3263.0	2782.6	2485.1	2515.1	2713.5	2902.7	2982.3	2893.6
4350.2	22.5°	4157.0	3762.8	3232.9	2613.0	2332.4	2426.3	2624.7	2790.5	2884.5	2857.0
4485.9	25°	4283.6	3849.0	3188.6	2430.2	2205.8	2336.3	2521.6	2656.0	2721.3	2720.0
4632.1	27.5°	4435.0	3963.8	3165.1	2282.8	2115.7	2234.5	2398.9	2519.0	2564.7	2564.7
4813.5	30°	4611.2	4099.6	3139.0	2186.2	2063.5	2128.8	2256.7	2374.1	2419.8	2419.8
5011.9	32.5°	4807.0	4230.1	3076.3	2127.4	2024.3	2025.6	2106.6	2213.6	2268.4	2276.2
5259.9	35°	5041.9	4369.7	2939.3	2080.5	1978.7	1925.1	1964.3	2053.1	2118.3	2135.3
5613.6	37.5°	5349.9	4540.7	2743.5	2011.3	1908.2	1819.4	1828.6	1896.4	1968.2	1994.3
6101.7	40°	5763.7	4741.7	2539.9	1912.1	1809.0	1703.3	1699.3	1748.9	1819.4	1848.1
6762.1	42.5°	6310.6	4983.2	2345.4	1816.8	1688.9	1580.6	1574.0	1613.2	1674.5	1704.6
7634.0	45°	7010.1	5279.5	2178.3	1742.4	1571.4	1464.4	1461.8	1494.4	1547.9	1579.3
8749.9	47.5°	7982.5	5575.7	2064.8	1703.3	1478.8	1369.1	1374.4	1403.1	1451.4	1473.5
10194.8	50°	9249.8	5665.8	2007.4	1703.3	1429.2	1284.3	1310.4	1333.9	1370.4	1383.5
11926.7	52.5°	10466.3	5368.2	1955.2	1713.7	1435.7	1212.5	1268.6	1285.6	1316.9	1322.1
13532.1	55°	11062.7	4615.1	1883.4	1716.3	1476.2	1151.2	1234.7	1266.0	1277.8	1276.5
14464.0	57.5°	10857.8	3731.5	1762.0	1705.9	1503.6	1112.0	1192.9	1253.0	1260.8	1249.1
14286.5	60°	10138.6	2747.4	1669.3	1628.9	1493.1	1100.3	1129.0	1224.3	1236.0	1220.3
12918.7	62.5°	8932.7	1906.9	1597.5	1459.2	1447.4	1096.4	1028.5	1161.6	1190.3	1168.1
10384.0	65°	7032.3	1346.9	1375.7	1279.1	1348.3	1075.5	924.1	1085.9	1125.1	1091.1
7533.5	67.5°	4758.7	972.4	1114.6	1159.0	1187.7	1028.5	848.4	999.8	1052.0	1007.6
4834.4	70°	2569.9	682.6	736.1	976.3	1008.9	947.6	780.5	912.3	972.4	924.1
3436.5	72.5°	1517.9	490.7	515.5	784.4	840.5	834.0	704.8	810.5	883.6	826.2
2371.5	75°	836.6	331.5	368.1	569.1	682.6	643.5	605.6	686.5	760.9	704.8
1486.6	77.5°	374.6	198.4	255.8	373.3	536.4	441.2	468.6	535.1	604.3	545.6
827.5	80°	144.9	110.9	169.7	203.6	390.2	244.1	301.5	394.2	443.8	396.8
180.1	82.5°	18.3	49.6	73.1	79.6	227.1	129.2	174.9	248.0	244.1	211.4
0.0	85°	0.0	9.1	10.4	5.2	97.9	47.0	57.4	80.9	75.7	57.4
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	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

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**CANDELA DISTRIBUTION (continued):**

185°		195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
2623.4	0°	2623.4	2623.4	2623.4	2623.4	2623.4	2623.4	2623.4	2623.4	2623.4	2623.4
2349.3	2.5°	2285.4	2238.4	2214.9	2195.3	2213.6	2224.0	2224.0	2268.4	2294.5	2305.0
2128.8	5°	2013.9	1926.4	1867.7	1832.5	1844.2	1857.3	1871.6	1927.8	1965.6	1990.4
1976.0	7.5°	1799.8	1666.7	1584.5	1541.4	1547.9	1557.1	1568.8	1623.6	1661.5	1694.1
1947.3	10°	1694.1	1506.2	1397.8	1345.6	1336.5	1331.3	1327.4	1360.0	1388.7	1414.8
2064.8	12.5°	1699.3	1437.0	1305.2	1241.2	1213.8	1182.5	1157.7	1162.9	1181.2	1213.8
2274.9	15°	1765.9	1414.8	1256.9	1177.3	1131.6	1095.0	1065.0	1058.5	1065.0	1070.2
2515.1	17.5°	1856.0	1412.2	1215.1	1115.9	1068.9	1038.9	1011.5	1002.4	1003.7	1010.2
2674.3	20°	1927.8	1404.4	1168.1	1057.2	1015.4	989.3	961.9	952.8	955.4	956.7
2690.0	22.5°	1965.6	1392.6	1115.9	998.5	963.2	937.1	912.3	911.0	911.0	918.8
2605.1	25°	1965.6	1367.8	1068.9	942.3	911.0	887.5	857.5	862.7	865.3	875.8
2473.3	27.5°	1918.6	1320.8	1031.1	894.0	861.4	837.9	810.5	817.0	821.0	832.7
2342.8	30°	1858.6	1264.7	988.0	848.4	810.5	793.6	770.1	772.7	777.9	790.9
2221.4	32.5°	1794.6	1198.2	952.8	802.7	764.8	751.8	725.7	729.6	734.8	749.2
2101.3	35°	1724.1	1119.8	911.0	760.9	723.1	712.6	682.6	685.2	693.1	708.7
1972.1	37.5°	1649.7	1055.9	869.3	720.5	681.3	670.9	639.5	642.1	651.3	669.6
1836.4	40°	1576.7	993.2	824.9	677.4	638.2	629.1	595.2	597.8	608.2	627.8
1699.3	42.5°	1497.0	945.0	767.4	633.0	591.2	582.1	550.8	554.7	566.4	586.0
1572.7	45°	1401.8	913.6	703.5	591.2	544.3	535.1	506.4	514.2	527.3	546.9
1464.4	47.5°	1303.9	900.6	650.0	546.9	496.0	488.1	464.6	477.7	492.1	507.7
1371.7	50°	1209.9	883.6	595.2	505.1	454.2	446.4	430.7	447.7	462.0	476.4
1305.2	52.5°	1102.9	847.1	545.6	468.6	419.0	416.4	408.5	424.2	437.2	450.3
1247.8	55°	991.9	788.3	502.5	435.9	388.9	391.6	387.6	400.7	411.1	422.9
1195.5	57.5°	895.4	713.9	468.6	400.7	362.8	370.7	365.5	372.0	378.5	392.9
1132.9	60°	797.5	625.2	430.7	358.9	336.7	345.9	331.5	330.2	332.8	336.7
1040.2	62.5°	665.6	532.5	383.7	322.4	308.0	311.9	284.5	263.6	263.6	267.6
911.0	65°	535.1	446.4	331.5	280.6	268.9	266.3	227.1	198.4	195.8	207.5
760.9	67.5°	439.8	370.7	279.3	233.6	225.8	228.4	199.7	171.0	168.4	181.4
620.0	70°	364.1	298.9	223.2	180.1	187.9	199.7	171.0	143.6	139.7	151.4
503.8	72.5°	289.8	233.6	171.0	133.1	155.3	169.7	139.7	113.6	110.9	121.4
388.9	75°	212.7	167.1	116.2	96.6	120.1	133.1	101.8	80.9	77.0	86.1
259.7	77.5°	131.8	94.0	73.1	57.4	82.2	88.8	53.5	47.0	45.7	52.2
157.9	80°	61.3	40.5	35.2	19.6	30.0	35.2	22.2	24.8	26.1	31.3
79.6	82.5°	17.0	6.5	1.3	0.0	0.0	10.4	5.2	10.4	13.1	19.6
6.5	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	6.5	11.7
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2
0.0	90°	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°	360°
2623.4	0°	2623.4	2623.4	2623.4	2623.4	2623.4	2623.4	2623.4	2623.4
2378.0	2.5°	2432.9	2485.1	2568.6	2654.7	2739.6	2825.7	2909.2	2939.3
2104.0	5°	2207.1	2327.1	2492.9	2670.4	2853.1	3038.5	3208.1	3285.1
1820.7	7.5°	1955.2	2127.4	2376.7	2654.7	2945.8	3236.9	3504.4	3628.4
1540.1	10°	1686.3	1904.3	2188.8	2564.7	2982.3	3384.3	3752.4	3912.9
1293.4	12.5°	1430.5	1658.9	1973.4	2423.7	2953.6	3469.2	3911.6	4100.9
1119.8	15°	1216.4	1418.7	1758.1	2256.7	2861.0	3474.4	3987.3	4194.9
1023.3	17.5°	1055.9	1187.7	1538.8	2071.3	2739.6	3426.1	4013.4	4235.3
971.1	20°	976.3	1012.8	1254.3	1833.8	2626.0	3380.4	4039.5	4273.2
929.3	22.5°	929.3	938.4	1025.9	1527.1	2490.3	3366.1	4085.2	4325.4
891.4	25°	891.4	894.0	917.5	1209.9	2282.8	3356.9	4155.7	4397.2
852.3	27.5°	853.6	853.6	866.6	975.0	2000.8	3317.8	4247.1	4483.3
813.1	30°	815.7	815.7	824.9	862.7	1670.6	3240.8	4356.7	4595.5
774.0	32.5°	776.6	776.6	784.4	811.8	1333.9	3144.2	4457.2	4709.1
733.5	35°	737.4	734.8	745.3	774.0	1061.1	3021.5	4557.7	4831.8
693.1	37.5°	695.7	694.4	704.8	737.4	916.2	2879.2	4633.4	4998.8
652.6	40°	651.3	651.3	663.0	698.3	874.5	2700.4	4753.5	5239.0
610.8	42.5°	610.8	608.2	621.3	664.3	843.1	2529.4	4968.8	5588.8
573.0	45°	571.7	566.4	578.2	631.7	788.3	2469.4	5370.8	6105.6
536.4	47.5°	535.1	522.1	532.5	592.6	738.7	2693.9	6028.6	6822.2
503.8	50°	505.1	480.3	489.4	553.4	700.9	3180.7	6882.2	7773.7
473.8	52.5°	473.8	441.2	446.4	505.1	666.9	3644.1	7807.6	9029.2
443.8	55°	441.2	404.6	407.2	456.8	618.7	3713.2	8710.8	10741.6
409.8	57.5°	404.6	370.7	370.7	412.4	583.4	3218.6	9405.1	12866.5
368.1	60°	364.1	342.0	335.4	377.2	614.7	2271.0	9486.1	14236.9
314.5	62.5°	319.8	308.0	298.9	343.3	638.2	1345.6	8834.8	13905.4
248.0	65°	268.9	266.3	259.7	377.2	537.7	794.9	7584.4	12888.7
211.4	67.5°	225.8	221.9	221.9	395.5	408.5	499.9	5925.5	11489.5
180.1	70°	194.5	180.1	180.1	298.9	248.0	345.9	4137.4	9979.4
148.8	72.5°	163.1	147.5	137.0	238.8	185.3	253.2	2585.6	8546.3
113.6	75°	130.5	118.8	105.7	157.9	138.3	191.9	1502.3	7080.6
71.8	77.5°	94.0	88.8	74.4	116.2	100.5	138.3	894.0	5463.5
44.4	80°	48.3	49.6	47.0	66.6	67.9	94.0	509.0	3739.3
28.7	82.5°	28.7	22.2	24.8	32.6	39.2	53.5	191.9	2197.9
20.9	85°	18.3	11.7	11.7	15.7	19.6	20.9	58.7	891.4
10.4	87.5°	9.1	3.9	5.2	7.8	6.5	5.2	2.6	224.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)