Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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: P950070

Luminaire Tested: **GALN-SB4C-850-U-SLR-HSS**

Issue Date: 1/21/2025

Report Generated By 670246001

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Test Information

Test Method:	LM-79-08
Report Number:	P950070
	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-SB4C-850-U-SLR-HSS
Description:	GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
	(4) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	21911 lumens
Efficiency:	N/A
Efficacy:	109.2 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):	200.7
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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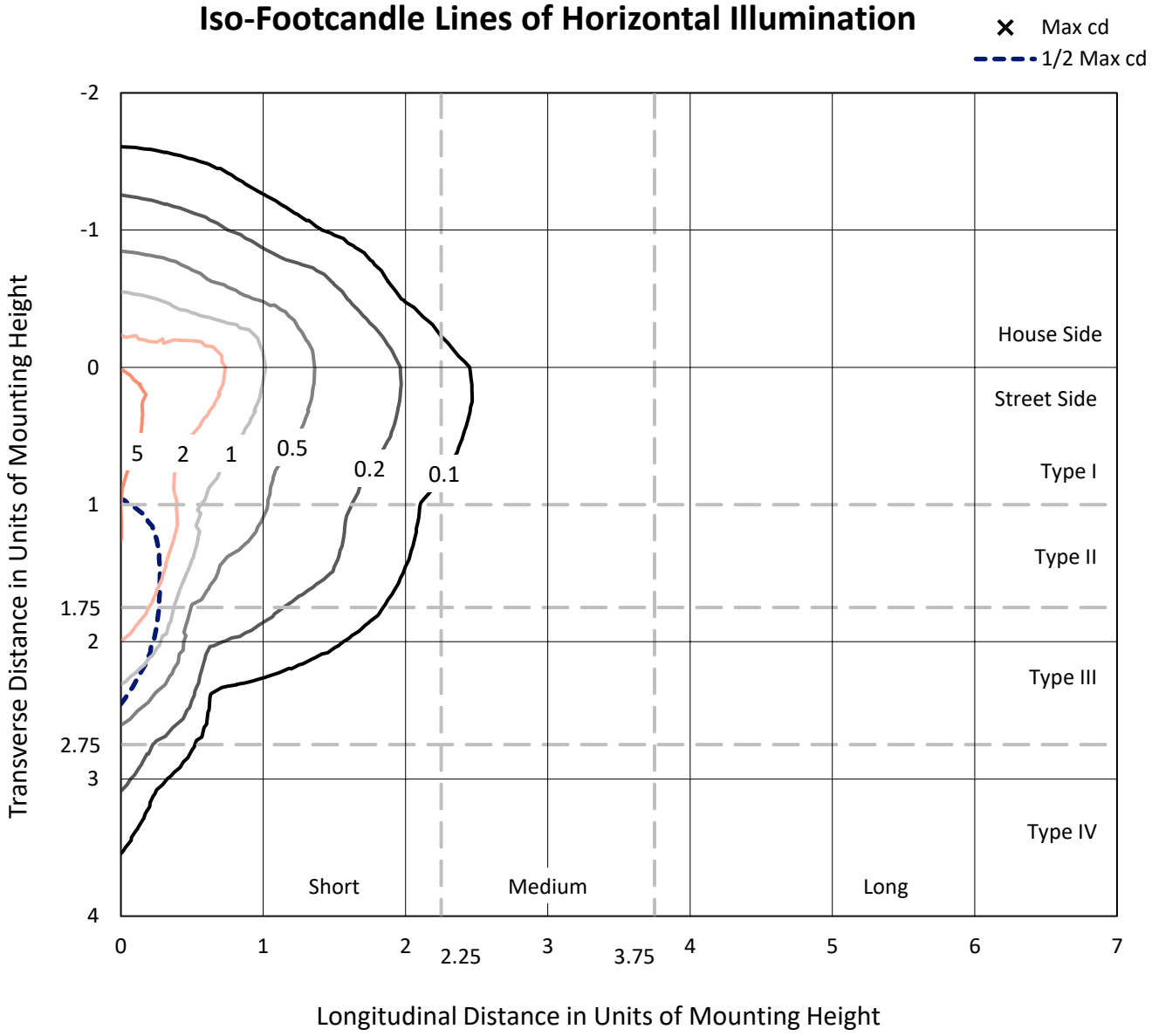
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
Type IV - Short - N/A

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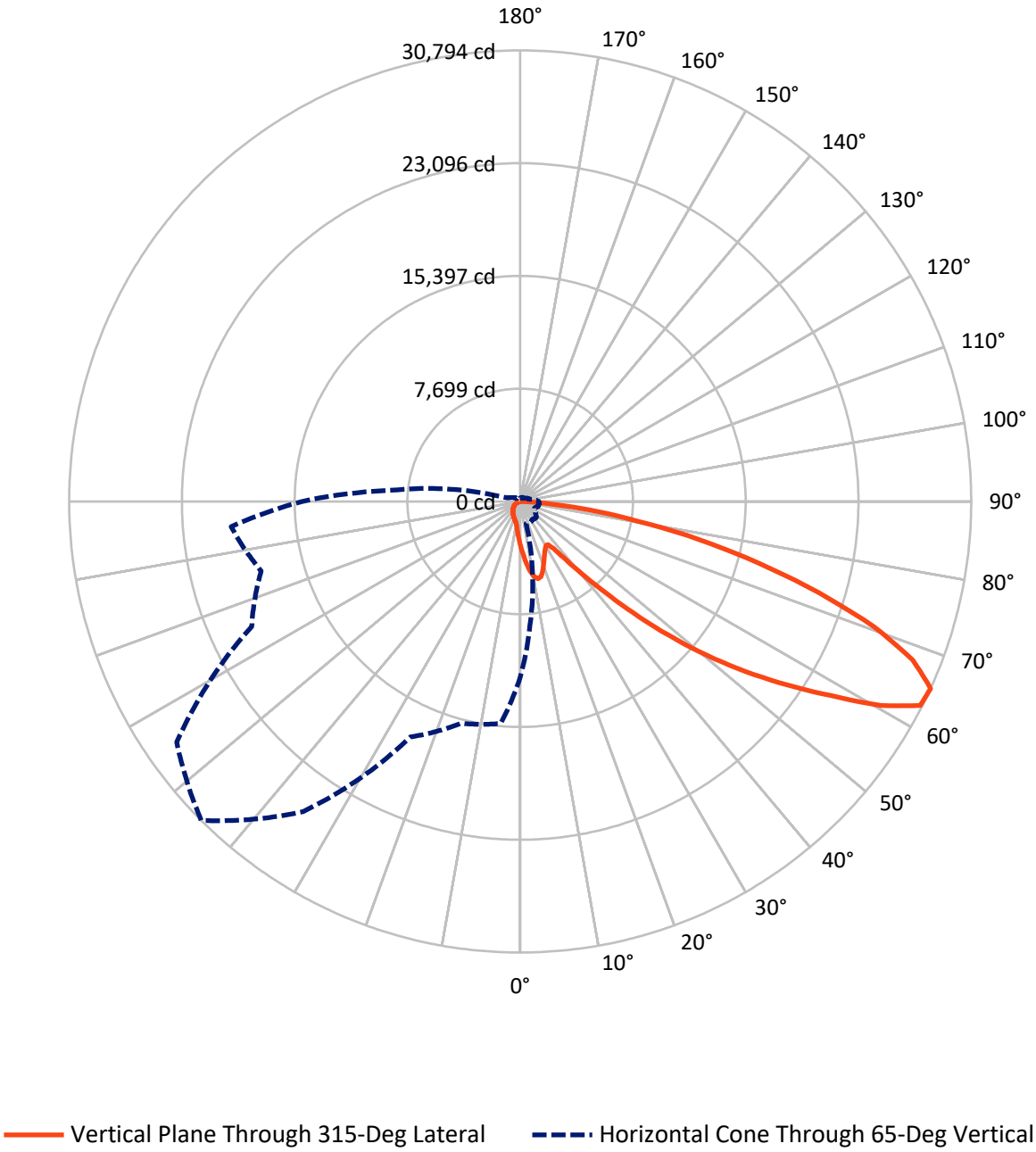
Luminous Intensity Polar Plot



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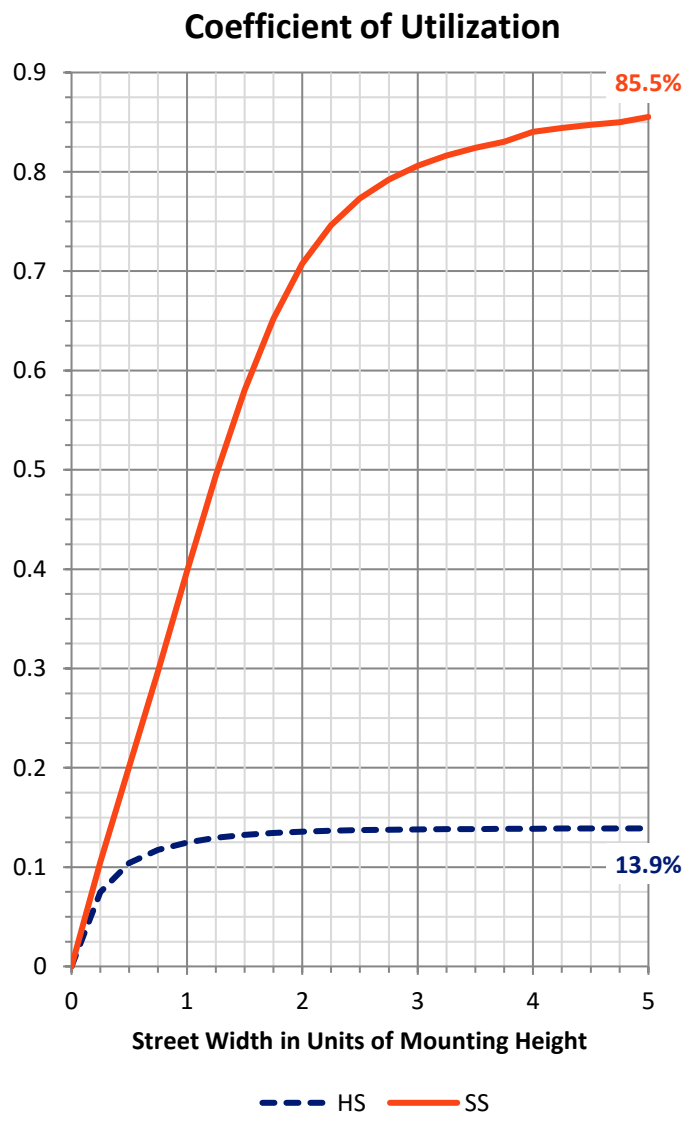
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3068.5	0.0	3068.5
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	18842.5	0.0	18842.5
	% Fixture	86.0	0.0	86.0
Total	Lumens	21911.0	0.0	21911.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	298.7	1.4
10°-20°	895.4	4.1
20°-30°	1319.1	6.0
30°-40°	1694.7	7.7
40°-50°	2740.9	12.5
50°-60°	4806.4	21.9
60°-70°	6014.2	27.4
70°-80°	3514.4	16.0
80°-90°	627.0	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°	21911.0	100.0
0°-180°	21911.0	100.0



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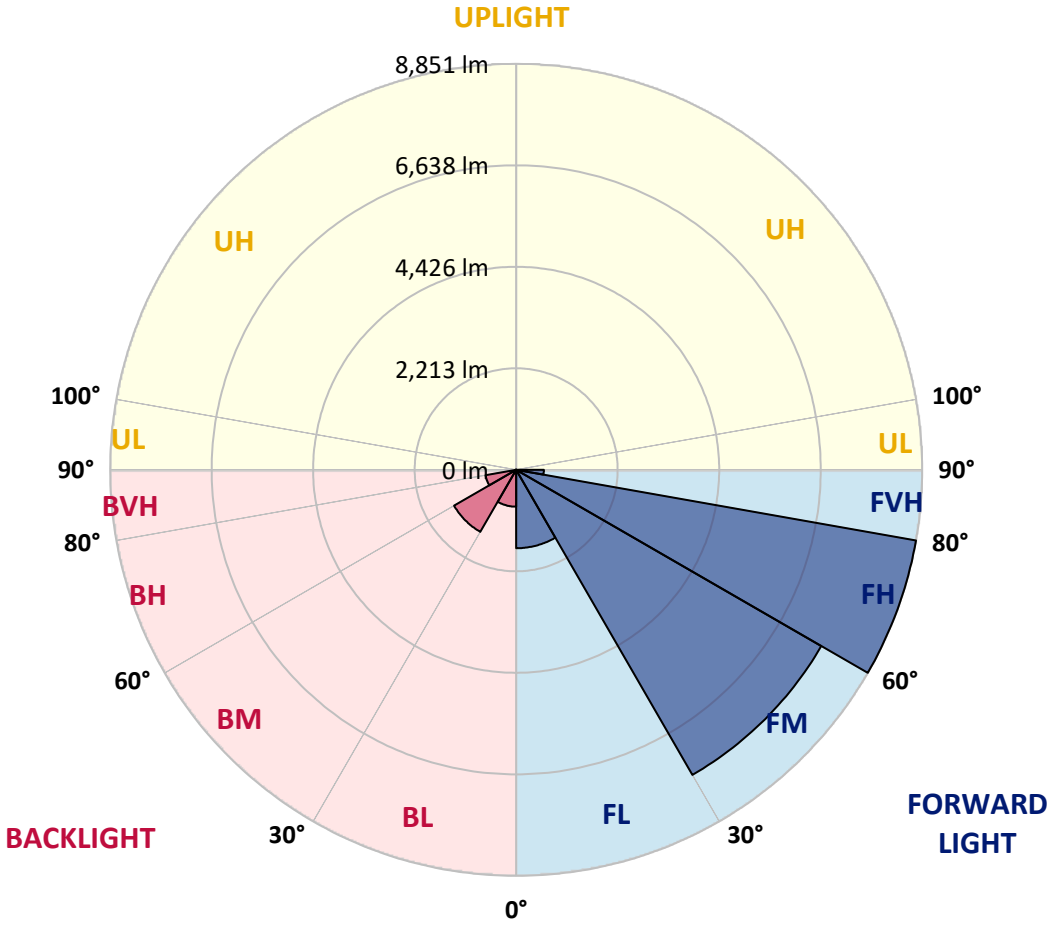
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1709.0	7.8			
FM	(30°-60°)	7679.6	35.0			
FH	(60°-80°)	8851.0	40.4			G4/12000
FVH	(80°-90°)	602.9	2.8			G4/750
BL	(0°-30°)	804.3	3.7	B2/1000		
BM	(30°-60°)	1562.5	7.1	B2/2500		
BH	(60°-80°)	677.5	3.1	B2/1000		G2/1000
BVH	(80°-90°)	24.1	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°	3034.0	3034.0	3034.0	3034.0	3034.0	3034.0	3034.0	3034.0	3034.0	3034.0
2.5°	3427.9	3369.1	3334.4	3248.3	3162.3	3092.8	2999.3	2937.4	2863.4	2792.5
5°	3820.4	3725.3	3610.6	3453.6	3310.2	3163.8	3021.9	2881.5	2733.6	2597.7
7.5°	4152.5	4015.1	3812.8	3604.5	3421.9	3245.3	3079.3	2893.6	2714.0	2501.1
10°	4406.1	4231.0	3965.3	3692.1	3482.3	3304.2	3142.7	2985.7	2804.5	2547.9
12.5°	4560.0	4372.8	4057.4	3737.4	3497.4	3298.1	3172.8	3103.4	3032.5	2777.4
15°	4673.2	4471.0	4122.3	3769.1	3462.7	3218.1	3126.0	3195.5	3277.0	3114.0
17.5°	4791.0	4578.1	4206.8	3782.7	3369.1	3062.7	3023.4	3203.0	3391.7	3384.2
20°	4902.7	4691.3	4280.8	3773.6	3218.1	2874.0	2908.7	3138.1	3357.0	3449.1
22.5°	5031.0	4807.6	4351.7	3738.9	3021.9	2697.4	2806.0	3035.5	3227.2	3335.9
25°	5187.9	4954.0	4451.3	3687.6	2810.6	2551.0	2701.9	2916.2	3071.7	3147.2
27.5°	5357.0	5129.1	4584.2	3660.4	2640.0	2446.8	2584.2	2774.3	2913.2	2966.0
30°	5566.8	5332.8	4741.1	3630.2	2528.3	2386.4	2461.9	2609.8	2745.7	2798.5
32.5°	5796.2	5559.3	4892.1	3557.7	2460.4	2341.1	2342.6	2436.2	2560.0	2623.4
35°	6083.0	5831.0	5053.6	3399.3	2406.0	2288.3	2226.4	2271.7	2374.3	2449.8
37.5°	6492.1	6187.2	5251.3	3172.8	2326.0	2206.8	2104.2	2114.7	2193.2	2276.2
40°	7056.6	6665.7	5483.8	2937.4	2211.3	2092.1	1969.8	1965.3	2022.6	2104.2
42.5°	7820.4	7298.1	5763.0	2712.5	2101.1	1953.2	1827.9	1820.4	1865.7	1936.6
45°	8828.7	8107.2	6105.7	2519.3	2015.1	1817.4	1693.6	1690.6	1728.3	1790.2
47.5°	10119.3	9231.7	6448.3	2387.9	1969.8	1710.2	1583.4	1589.4	1622.6	1678.5
50°	11790.2	10697.4	6552.5	2321.5	1969.8	1652.8	1485.3	1515.5	1542.6	1584.9
52.5°	13793.3	12104.2	6208.3	2261.1	1981.9	1660.4	1402.3	1467.2	1486.8	1523.0
55°	15649.9	12794.0	5337.4	2178.1	1984.9	1707.2	1331.3	1427.9	1464.2	1477.7
57.5°	16727.6	12557.0	4315.5	2037.7	1972.8	1738.9	1286.0	1379.6	1449.1	1458.1
60°	16522.3	11725.3	3177.4	1930.6	1883.8	1726.8	1272.5	1305.7	1415.9	1429.4
62.5°	14940.4	10330.6	2205.3	1847.6	1687.6	1674.0	1267.9	1189.4	1343.4	1376.6
65°	*12009.1*	*8132.9*	*1557.7*	*1590.9*	*1479.3*	*1559.3*	*1243.8*	*1068.7*	*1255.9*	*1301.1*
67.5°	8712.5	5503.4	1124.5	1289.1	1340.4	1373.6	1189.4	981.1	1156.2	1216.6
70°	5591.0	2972.1	789.4	851.3	1129.1	1166.8	1095.9	902.6	1055.1	1124.5
72.5°	3974.4	1755.5	567.5	596.2	907.2	972.1	964.5	815.1	937.4	1021.9
75°	2742.7	967.6	383.4	425.7	658.1	789.4	744.2	700.4	794.0	880.0
77.5°	1719.3	433.2	229.4	295.9	431.7	620.4	510.2	541.9	618.9	698.9
80°	957.0	167.5	128.3	196.2	235.5	451.3	282.3	348.7	455.9	513.2
82.5°	208.3	21.1	57.4	84.5	92.1	262.6	149.4	202.3	286.8	282.3
85°	0.0	0.0	10.6	12.1	6.0	113.2	54.3	66.4	93.6	87.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0
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°
3034.0	0°	3034.0	3034.0	3034.0	3034.0	3034.0	3034.0	3034.0	3034.0	3034.0	3034.0
2729.1	2.5°	2717.0	2643.0	2588.7	2561.5	2538.9	2560.0	2572.1	2572.1	2623.4	2653.6
2514.7	5°	2461.9	2329.1	2227.9	2160.0	2119.3	2132.8	2147.9	2164.5	2229.4	2273.2
2387.9	7.5°	2285.3	2081.5	1927.6	1832.5	1782.6	1790.2	1800.8	1814.3	1877.7	1921.5
2406.0	10°	2252.1	1959.3	1741.9	1616.6	1556.2	1545.7	1539.6	1535.1	1572.8	1606.0
2611.3	12.5°	2387.9	1965.3	1661.9	1509.4	1435.5	1403.8	1367.6	1338.9	1344.9	1366.0
2922.3	15°	2631.0	2042.3	1636.2	1453.6	1361.5	1308.7	1266.4	1231.7	1224.2	1231.7
3194.0	17.5°	2908.7	2146.4	1633.2	1405.3	1290.6	1236.2	1201.5	1169.8	1159.2	1160.8
3346.4	20°	3092.8	2229.4	1624.2	1350.9	1222.6	1174.3	1144.2	1112.5	1101.9	1104.9
3304.2	22.5°	3111.0	2273.2	1610.6	1290.6	1154.7	1114.0	1083.8	1055.1	1053.6	1053.6
3145.7	25°	3012.8	2273.2	1581.9	1236.2	1089.8	1053.6	1026.4	991.7	997.7	1000.8
2966.0	27.5°	2860.4	2218.9	1527.6	1192.5	1034.0	996.2	969.1	937.4	944.9	949.4
2798.5	30°	2709.4	2149.4	1462.6	1142.6	981.1	937.4	917.7	890.6	893.6	899.6
2632.5	32.5°	2569.1	2075.5	1385.7	1101.9	928.3	884.5	869.4	839.2	843.8	849.8
2469.4	35°	2430.2	1994.0	1295.1	1053.6	880.0	836.2	824.2	789.4	792.5	801.5
2306.4	37.5°	2280.8	1907.9	1221.1	1005.3	833.2	787.9	775.9	739.6	742.6	753.2
2137.4	40°	2123.8	1823.4	1148.7	954.0	783.4	738.1	727.5	688.3	691.3	703.4
1971.3	42.5°	1965.3	1731.3	1092.8	887.6	732.1	683.8	673.2	637.0	641.5	655.1
1826.4	45°	1818.9	1621.1	1056.6	813.6	683.8	629.4	618.9	585.7	594.7	609.8
1704.2	47.5°	1693.6	1507.9	1041.5	751.7	632.5	573.6	564.5	537.4	552.5	569.1
1600.0	50°	1586.4	1399.2	1021.9	688.3	584.2	525.3	516.2	498.1	517.7	534.3
1529.1	52.5°	1509.4	1275.5	979.6	630.9	541.9	484.5	481.5	472.5	490.6	505.7
1476.2	55°	1443.0	1147.2	911.7	581.1	504.2	449.8	452.8	448.3	463.4	475.5
1444.5	57.5°	1382.6	1035.5	825.7	541.9	463.4	419.6	428.7	422.6	430.2	437.7
1411.3	60°	1310.2	922.3	723.0	498.1	415.1	389.4	400.0	383.4	381.9	384.9
1350.9	62.5°	1203.0	769.8	615.9	443.8	372.8	356.2	360.8	329.1	304.9	304.9
1261.9	65°	*1053.6*	*618.9*	*516.2*	*383.4*	*324.5*	*310.9*	*307.9*	*262.6*	*229.4*	*226.4*
1165.3	67.5°	880.0	508.7	428.7	323.0	270.2	261.1	264.2	230.9	197.7	194.7
1068.7	70°	717.0	421.1	345.7	258.1	208.3	217.4	230.9	197.7	166.0	161.5
955.5	72.5°	582.6	335.1	270.2	197.7	154.0	179.6	196.2	161.5	131.3	128.3
815.1	75°	449.8	246.0	193.2	134.3	111.7	138.9	154.0	117.7	93.6	89.1
630.9	77.5°	300.4	152.5	108.7	84.5	66.4	95.1	102.6	61.9	54.3	52.8
458.9	80°	182.6	70.9	46.8	40.8	22.6	34.7	40.8	25.7	28.7	30.2
244.5	82.5°	92.1	19.6	7.5	1.5	0.0	0.0	12.1	6.0	12.1	15.1
66.4	85°	7.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	7.5
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

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CANDELA DISTRIBUTION (continued):

185°		195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
3034.0	0°	3034.0	3034.0	3034.0	3034.0	3034.0	3034.0	3034.0	3034.0	3034.0	3034.0
2665.7	2.5°	2750.2	2813.6	2874.0	2970.6	3070.2	3168.3	3267.9	3364.5	3399.3	3424.9
2301.9	5°	2433.2	2552.5	2691.3	2883.0	3088.3	3299.6	3514.0	3710.2	3799.3	3859.6
1959.3	7.5°	2105.7	2261.1	2460.4	2748.7	3070.2	3406.8	3743.4	4052.8	4196.2	4312.5
1636.2	10°	1781.1	1950.2	2202.3	2531.3	2966.0	3449.1	3914.0	4339.6	4525.3	4671.7
1403.8	12.5°	1495.9	1654.3	1918.5	2282.3	2803.0	3415.9	4012.1	4523.8	4742.7	4907.2
1237.7	15°	1295.1	1406.8	1640.8	2033.2	2609.8	3308.7	4018.1	4611.3	4851.3	5023.4
1168.3	17.5°	1183.4	1221.1	1373.6	1779.6	2395.5	3168.3	3962.3	4641.5	4898.1	5058.1
1106.4	20°	1123.0	1129.1	1171.3	1450.6	2120.8	3037.0	3909.4	4671.7	4941.9	5076.2
1062.6	22.5°	1074.7	1074.7	1085.3	1186.4	1766.0	2880.0	3892.8	4724.5	5002.3	5085.3
1012.8	25°	1030.9	1030.9	1034.0	1061.1	1399.2	2640.0	3882.3	4806.1	5085.3	5107.9
963.0	27.5°	985.7	987.2	987.2	1002.3	1127.6	2314.0	3837.0	4911.7	5184.9	5138.1
914.7	30°	940.4	943.4	943.4	954.0	997.7	1932.1	3747.9	5038.5	5314.7	5177.4
866.4	32.5°	895.1	898.1	898.1	907.2	938.9	1542.6	3636.2	5154.7	5446.1	5194.0
819.6	35°	848.3	852.8	849.8	861.9	895.1	1227.2	3494.4	5271.0	5587.9	5246.8
774.3	37.5°	801.5	804.5	803.0	815.1	852.8	1059.6	3329.8	5358.5	5781.2	5364.5
726.0	40°	754.7	753.2	753.2	766.8	807.5	1011.3	3123.0	5497.4	6058.9	5571.3
677.7	42.5°	706.4	706.4	703.4	718.5	768.3	975.1	2925.3	5746.4	6463.4	5900.4
632.5	45°	662.6	661.1	655.1	668.7	730.6	911.7	2855.9	6211.3	7061.2	6433.2
587.2	47.5°	620.4	618.9	603.8	615.9	685.3	854.3	3115.5	6972.1	7889.8	7216.6
550.9	50°	582.6	584.2	555.5	566.0	640.0	810.6	3678.5	7959.3	8990.2	8271.7
520.8	52.5°	547.9	547.9	510.2	516.2	584.2	771.3	4214.4	9029.5	10442.3	9743.4
489.1	55°	513.2	510.2	467.9	470.9	528.3	715.5	4294.4	10074.0	12422.7	11957.8
454.3	57.5°	474.0	467.9	428.7	428.7	477.0	674.7	3722.3	10877.0	14880.0	15212.1
389.4	60°	425.7	421.1	395.5	387.9	436.2	710.9	2626.4	10970.6	16465.0	19539.7
309.4	62.5°	363.8	369.8	356.2	345.7	397.0	738.1	1556.2	10217.4	16081.6	20916.3
240.0	65°	*286.8*	*310.9*	*307.9*	*300.4*	*436.2*	*621.9*	*919.2*	*8771.4*	*14905.7*	*19805.3*
209.8	67.5°	244.5	261.1	256.6	256.6	457.4	472.5	578.1	6852.9	13287.6	18487.6
175.1	70°	208.3	224.9	208.3	208.3	345.7	286.8	400.0	4784.9	11541.2	17029.5
140.4	72.5°	172.1	188.7	170.6	158.5	276.2	214.3	292.8	2990.2	9883.8	15511.0
99.6	75°	131.3	150.9	137.4	122.3	182.6	160.0	221.9	1737.4	8188.7	13271.0
60.4	77.5°	83.0	108.7	102.6	86.0	134.3	116.2	160.0	1034.0	6318.5	10369.8
36.2	80°	51.3	55.8	57.4	54.3	77.0	78.5	108.7	588.7	4324.5	7227.2
22.6	82.5°	33.2	33.2	25.7	28.7	37.7	45.3	61.9	221.9	2541.9	4400.0
13.6	85°	24.2	21.1	13.6	13.6	18.1	22.6	24.2	67.9	1030.9	1737.4
6.0	87.5°	12.1	10.6	4.5	6.0	9.1	7.5	6.0	3.0	259.6	555.5
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°
3034.0	0°	3034.0	3034.0	*3034.0*	3034.0	3034.0	3034.0	3034.0	3034.0
3482.3	2.5°	3512.5	3559.3	*3562.3*	3562.3	3521.5	3520.0	3437.0	3427.9
3995.5	5°	4135.9	4166.1	*4173.6*	4158.5	4077.0	4016.6	3855.1	3820.4
4519.3	7.5°	4706.4	4766.8	*4766.8*	4730.6	4597.8	4474.0	4240.0	4152.5
4952.5	10°	5162.3	5231.7	*5216.6*	5142.7	4975.1	4804.5	4520.8	4406.1
5215.1	12.5°	5384.2	5455.1	*5415.9*	5331.3	5168.3	4988.7	4689.8	4560.0
5290.6	15°	5379.6	5360.0	*5319.3*	5308.7	5230.2	5094.4	4815.1	4673.2
5243.8	17.5°	5187.9	5021.9	*4990.2*	5095.9	5195.5	5162.3	4923.8	4791.0
5132.1	20°	4884.5	4594.7	*4566.1*	4768.3	5052.1	5197.0	5024.9	4902.7
4970.6	22.5°	4564.5	4252.1	*4185.7*	4409.1	4836.2	5207.6	5153.2	5031.0
4792.5	25°	4261.1	3947.2	*3880.8*	4089.1	4596.2	5189.5	5292.1	5187.9
4621.9	27.5°	4007.6	3704.2	*3642.3*	3850.6	4365.3	5138.1	5431.0	5357.0
4452.8	30°	3811.3	3530.6	*3485.3*	3686.1	4166.1	5074.7	5607.6	5566.8
4295.9	32.5°	3696.6	3491.3	*3507.9*	3672.5	4058.9	5005.3	5776.6	5796.2
4218.9	35°	3809.8	3818.9	*3963.8*	4031.7	4158.5	4994.7	6006.1	6083.0
4311.0	37.5°	4372.8	4686.8	*4987.2*	4931.3	4646.1	5117.0	6348.7	6492.1
4712.5	40°	5331.3	5975.9	*6463.4*	6250.6	5532.1	5491.3	6842.3	7056.6
5424.9	42.5°	6502.7	7595.5	*8398.5*	7828.0	6674.7	6146.4	7547.2	7820.4
6286.8	45°	7738.9	9592.5	*10857.4*	9671.0	7892.9	7064.2	8614.4	8828.7
7094.4	47.5°	9041.5	12019.7	*13655.9*	11714.8	9021.9	8108.7	10069.5	10119.3
7859.6	50°	10466.5	14680.8	*16508.7*	13757.0	10111.7	9305.7	11847.6	11790.2
8751.7	52.5°	11823.4	17417.4	*19301.2*	15808.4	11068.7	10791.0	13911.0	13793.3
9971.4	55°	13118.5	20152.5	*22110.3*	17779.7	11971.4	12753.3	16362.3	15649.9
11729.9	57.5°	14620.4	22611.4	*25005.4*	19760.1	13233.3	15301.2	19103.5	16727.6
15097.4	60°	16840.8	25405.4	*28279.3*	22474.0	15633.3	17978.9	20086.1	16522.3
19130.6	62.5°	19675.5	27974.4	*30659.7*	25133.7	18043.8	18483.1	18638.6	14940.4
18308.0	65°	*20226.5*	*28625.0*	*30794.1*	*25844.6*	*17732.9*	*15678.5*	*15216.7*	*12009.1*
16353.3	67.5°	18765.3	27449.1	*28916.3*	24520.8	15686.1	12116.3	11418.9	8712.5
15070.2	70°	17126.1	25207.6	*25643.9*	22270.3	13796.3	8911.7	7711.7	5591.0
14191.7	72.5°	15446.1	22217.4	*21314.8*	19340.4	12125.3	6489.1	5562.3	3974.4
12940.4	75°	13450.6	18285.3	*16789.5*	16069.5	10039.3	5092.8	4024.2	2742.7
11130.6	77.5°	10771.4	12871.0	*12471.0*	12455.9	7544.2	3720.8	2685.3	1719.3
8695.9	80°	7598.5	8353.2	*8149.5*	9381.2	5061.1	2698.9	1616.6	957.0
6052.9	82.5°	3678.5	4618.9	*4741.1*	5586.4	2461.9	1587.9	372.8	208.3
2366.8	85°	1440.0	2227.9	*1879.3*	2120.8	691.3	442.3	9.1	0.0
389.4	87.5°	161.5	258.1	*237.0*	187.2	84.5	18.1	0.0	0.0
0.0	90°	0.0	0.0	*0.0*	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)