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: P954268

Luminaire Tested: **GALN-SB7C-827-U-SLL-HSS**

Issue Date: 1/21/2025

Report Generated By 670246001

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1121 Highway 74 South
Peachtree City, GA 30269

Test Information

Test Method:	LM-79-08
Report Number:	P954268
	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-SB7C-827-U-SLL-HSS
Description:	GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
	(7) 80 CRI, 2700K, 615mA 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:	35346 lumens
Efficiency:	N/A
Efficacy:	100.8 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B3 - U0 - G5
Input Watts (W):	350.5
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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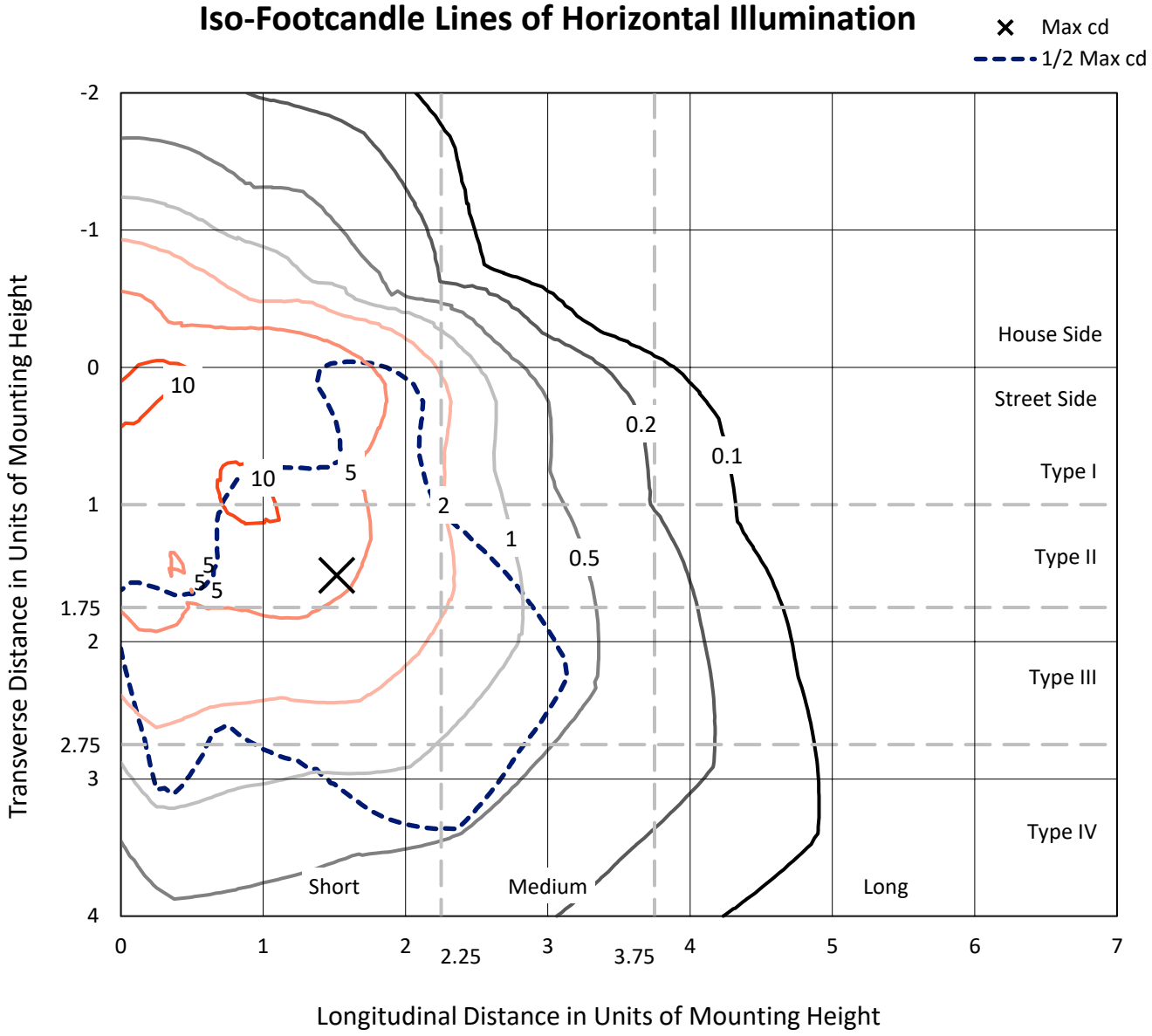
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 12.9 fc
Type IV - Short - N/A

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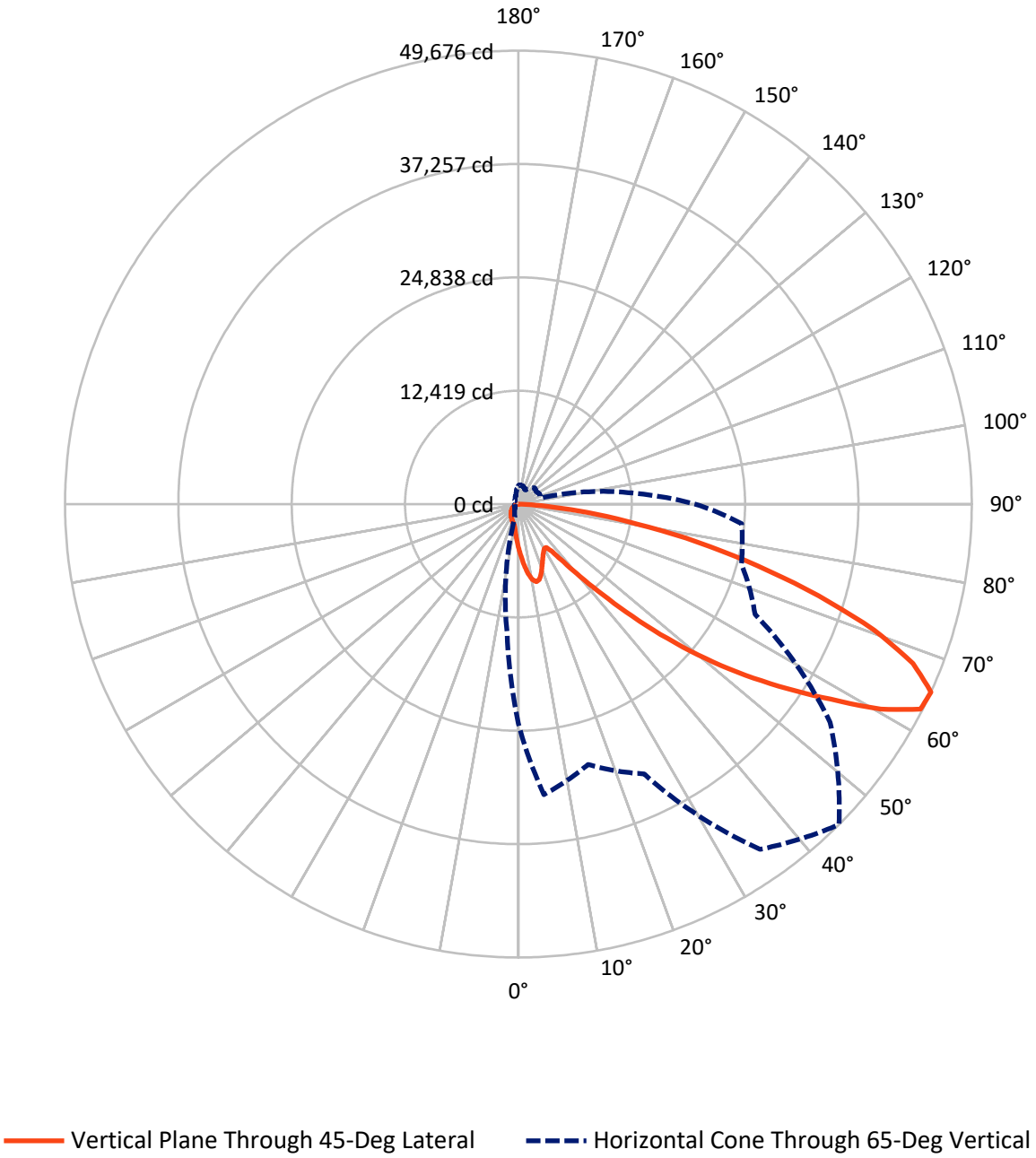
Luminous Intensity Polar Plot



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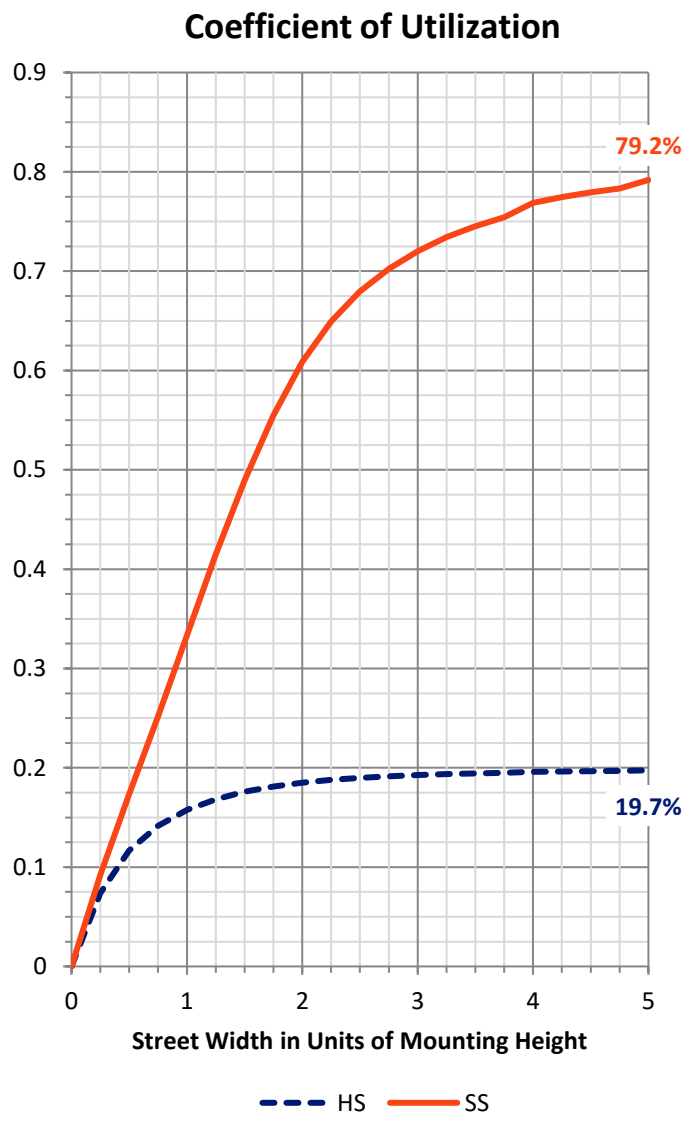
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7025.7	0.0	7025.7
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	28320.3	0.0	28320.3
	% Fixture	80.1	0.0	80.1
Total	Lumens	35346.0	0.0	35346.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	481.9	1.4
10°-20°	1444.5	4.1
20°-30°	2128.0	6.0
30°-40°	2733.9	7.7
40°-50°	4421.5	12.5
50°-60°	7753.6	21.9
60°-70°	9701.8	27.4
70°-80°	5669.3	16.0
80°-90°	1011.5	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°	35346.0	100.0
0°-180°	35346.0	100.0



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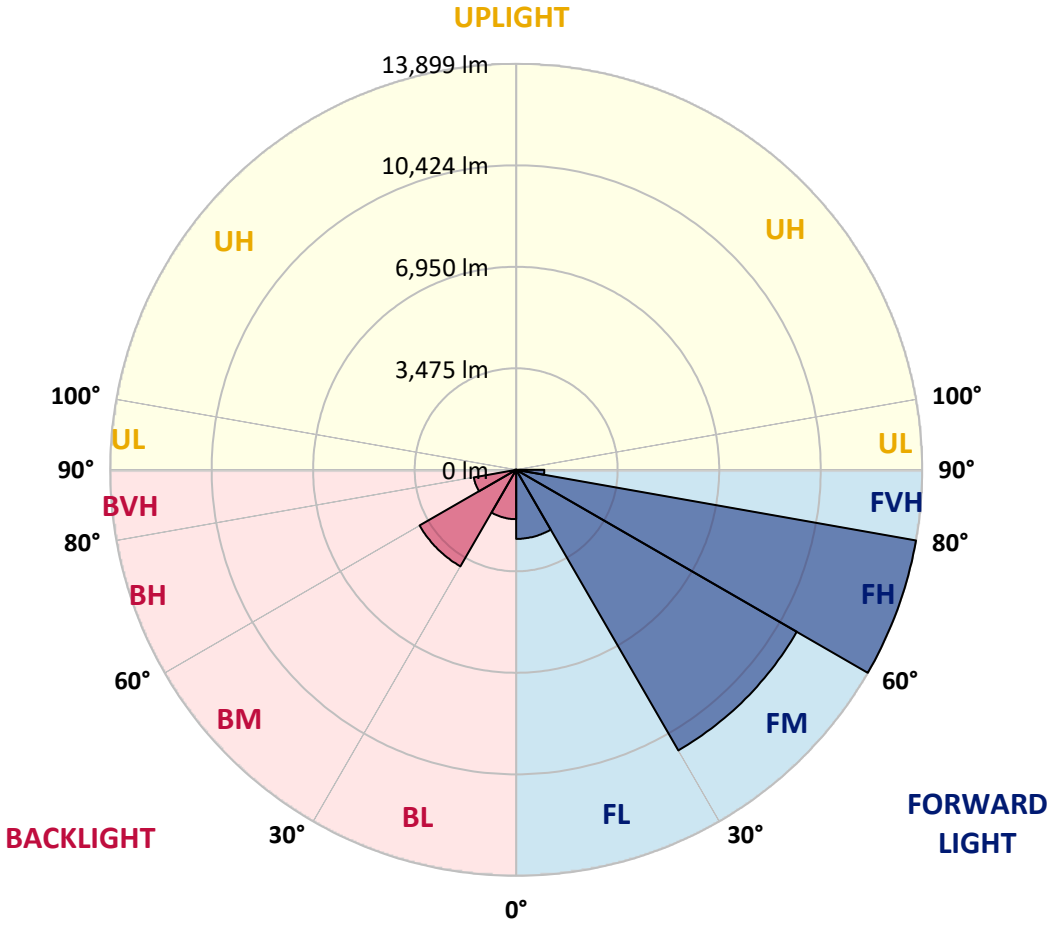
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	2365.1	6.7			
FM	(30°-60°)	11092.0	31.4			
FH	(60°-80°)	13899.1	39.3			G5
FVH	(80°-90°)	964.1	2.7			G5
BL	(0°-30°)	1689.3	4.8	B3/2500		
BM	(30°-60°)	3817.0	10.8	B3/5000		
BH	(60°-80°)	1472.0	4.2	B3/2500		G3/2500
BVH	(80°-90°)	47.4	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4894.3	4894.3	4894.3	4894.3	4894.3	*4894.3*	4894.3	4894.3	4894.3	4894.3
2.5°	5483.6	5524.9	5617.5	5666.2	5741.7	*5746.5*	5746.5	5680.8	5678.4	5544.4
5°	6128.8	6226.2	6445.4	6671.8	6720.5	*6732.7*	6708.3	6576.9	6479.5	6218.9
7.5°	6769.2	6956.7	7290.3	7592.2	7689.6	*7689.6*	7631.2	7416.9	7217.3	6839.8
10°	7300.0	7536.2	7989.1	8327.6	8439.6	*8415.3*	8295.9	8025.7	7750.5	7292.7
12.5°	7650.7	7916.1	8412.8	8685.5	8800.0	*8736.7*	8600.3	8337.3	8047.6	7565.5
15°	7826.0	8103.6	8534.6	8678.2	8646.6	*8580.8*	8563.8	8437.2	8218.0	7767.6
17.5°	7901.5	8159.6	8459.1	8369.0	8101.1	*8050.0*	8220.5	8381.2	8327.6	7942.9
20°	7972.1	8188.8	8278.9	7879.6	7412.0	*7365.8*	7692.1	8149.8	8383.6	8106.0
22.5°	8069.5	8203.4	8018.4	7363.3	6859.3	*6752.2*	7112.5	7801.6	8400.6	8313.0
25°	8203.4	8239.9	7731.0	6873.9	6367.4	*6260.3*	6596.3	7414.5	8371.4	8537.0
27.5°	8364.1	8288.6	7455.9	6464.8	5975.4	*5875.6*	6211.6	7041.9	8288.6	8761.0
30°	8573.5	8351.9	7183.2	6148.3	5695.4	*5622.3*	5946.2	6720.5	8186.4	9045.9
32.5°	8785.4	8378.7	6929.9	5963.2	5632.1	*5658.9*	5924.3	6547.6	8074.4	9318.6
35°	9014.3	8464.0	6805.7	6145.9	6160.5	*6394.2*	6503.8	6708.3	8057.3	9688.7
37.5°	9325.9	8653.9	6954.3	7054.1	7560.6	*8045.1*	7955.0	7494.8	8254.5	10241.5
40°	9774.0	8987.5	7602.0	8600.3	9640.0	*10426.5*	10083.2	8924.2	8858.4	11037.7
42.5°	10426.5	9518.3	8751.3	10489.9	12252.8	*13548.2*	12627.8	10767.4	9915.2	12174.9
45°	11390.8	10377.8	10141.7	12484.1	15474.2	*17514.7*	15600.9	12732.5	11395.7	13896.4
47.5°	12727.6	11641.6	11444.4	14585.5	19389.7	*22029.2*	18897.8	14553.8	13080.7	16243.7
50°	14502.7	13343.6	12678.9	16884.1	23682.5	*26631.3*	22192.3	16311.9	15011.6	19112.1
52.5°	16845.1	15717.7	14118.0	19073.1	28097.1	*31136.0*	25501.4	17855.6	17407.6	22440.7
55°	20039.8	19289.8	16085.4	21162.3	32509.3	*35667.4*	28681.5	19311.7	20573.1	26395.1
57.5°	24003.9	24539.6	18922.2	23585.1	36475.9	*40337.7*	31876.2	21347.4	24683.3	30817.0
60°	26560.7	31520.7	24354.6	27167.0	40983.0	*45619.2*	36254.3	25219.0	29002.9	32402.1
62.5°	25942.2	33741.4	30860.8	31739.8	45127.3	*49459.1*	40544.7	29107.6	29816.2	30067.0
65°	*24045.3*	*31949.2*	*29533.8*	*32628.6*	*46176.8*	*49675.8*	*41691.6*	*28606.0*	*25292.0*	*24546.9*
67.5°	21435.0	29823.5	26380.5	30271.5	44279.9	*46646.7*	39556.1	25304.2	19545.5	18420.5
70°	18617.8	27471.3	24310.7	27627.2	40664.0	*41367.7*	35925.5	22255.6	14376.1	12440.3
72.5°	15944.2	25021.8	22893.6	24917.0	35840.3	*34384.2*	31199.3	19560.1	10467.9	8972.9
75°	13209.7	21408.3	20875.0	21698.0	29497.2	*27084.2*	25922.7	16195.0	8215.6	6491.6
77.5°	10192.8	16728.2	17955.5	17375.9	20763.0	*20117.7*	20093.4	12170.0	6002.2	4331.8
80°	6976.2	11658.6	14027.9	12257.6	13475.1	*13146.4*	15133.3	8164.5	4353.7	2607.9
82.5°	4100.5	7097.9	9764.2	5934.0	7451.0	*7648.2*	9011.8	3971.4	2561.6	601.4
85°	1663.1	2802.7	3818.0	2323.0	3594.0	*3031.5*	3421.1	1115.2	713.4	14.6
87.5°	418.8	896.1	628.2	260.5	416.4	*382.3*	301.9	136.4	29.2	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):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
4894.3	0°	4894.3	4894.3	4894.3	4894.3	4894.3	4894.3	4894.3	4894.3	4894.3	4894.3
5529.8	2.5°	5434.9	5378.8	5240.1	5101.3	4989.3	4838.3	4738.5	4619.1	4504.7	4402.4
6162.9	5°	6009.5	5824.4	5571.2	5339.9	5103.7	4874.8	4648.4	4409.7	4190.6	4056.7
6698.6	7.5°	6477.0	6150.7	5814.7	5520.1	5235.2	4967.3	4667.8	4378.1	4034.7	3852.1
7107.7	10°	6825.2	6396.7	5955.9	5617.5	5330.1	5069.6	4816.4	4524.2	4110.2	3881.3
7356.0	12.5°	7054.1	6545.2	6029.0	5641.8	5320.4	5118.3	5006.3	4891.9	4480.3	4212.5
7538.7	15°	7212.4	6649.9	6080.1	5585.8	5191.4	5042.8	5154.8	5286.3	5023.3	4714.1
7728.6	17.5°	7385.3	6786.3	6102.0	5434.9	4940.6	4877.2	5167.0	5471.4	5459.2	5152.4
7908.8	20°	7567.9	6905.6	6087.4	5191.4	4636.2	4692.2	5062.3	5415.4	5563.9	5398.3
8115.8	22.5°	7755.4	7020.0	6031.4	4874.8	4351.3	4526.6	4896.7	5206.0	5381.3	5330.1
8369.0	25°	7991.6	7180.7	5948.6	4533.9	4115.1	4358.6	4704.4	4955.2	5076.9	5074.5
8641.7	27.5°	8274.0	7395.0	5904.8	4258.8	3947.1	4168.7	4475.5	4699.5	4784.7	4784.7
8980.2	30°	8602.7	7648.2	5856.1	4078.6	3849.7	3971.4	4210.1	4429.2	4514.4	4514.4
9350.3	32.5°	8968.0	7891.7	5739.2	3969.0	3776.6	3779.1	3930.0	4129.7	4232.0	4246.6
9812.9	35°	9406.3	8152.3	5483.6	3881.3	3691.4	3591.6	3664.6	3830.2	3952.0	3983.6
10472.8	37.5°	9980.9	8471.3	5118.3	3752.3	3559.9	3394.3	3411.4	3538.0	3671.9	3720.6
11383.5	40°	10752.8	8846.2	4738.5	3567.2	3374.9	3177.6	3170.3	3262.9	3394.3	3447.9
12615.6	42.5°	11773.1	9296.7	4375.6	3389.5	3150.9	2948.7	2936.6	3009.6	3124.1	3180.1
14242.1	45°	13078.2	9849.5	4064.0	3250.7	2931.7	2732.0	2727.2	2788.0	2887.9	2946.3
16324.0	47.5°	14892.3	10402.2	3852.1	3177.6	2758.8	2554.3	2564.0	2617.6	2707.7	2749.1
19019.6	50°	17256.6	10570.2	3745.0	3177.6	2666.3	2396.0	2444.7	2488.5	2556.7	2581.1
22250.8	52.5°	19526.0	10015.0	3647.6	3197.1	2678.5	2262.1	2366.8	2398.4	2456.9	2466.6
25245.8	55°	20638.8	8610.1	3513.7	3202.0	2754.0	2147.6	2303.5	2361.9	2383.8	2381.4
26984.3	57.5°	20256.5	6961.6	3287.2	3182.5	2805.1	2074.6	2225.6	2337.6	2352.2	2330.3
26653.2	60°	18914.8	5125.6	3114.3	3038.8	2785.6	2052.7	2106.2	2284.0	2305.9	2276.7
24101.3	62.5°	16664.9	3557.5	2980.4	2722.3	2700.4	2045.4	1918.8	2167.1	2220.7	2179.3
19372.6	65°	*13119.6*	*2512.9*	*2566.5*	*2386.3*	*2515.3*	*2006.4*	*1724.0*	*2025.9*	*2098.9*	*2035.6*
14054.6	67.5°	8877.9	1814.1	2079.5	2162.3	2215.8	1918.8	1582.7	1865.2	1962.6	1879.8
9019.1	70°	4794.5	1273.5	1373.3	1821.4	1882.2	1767.8	1456.1	1702.0	1814.1	1724.0
6411.3	72.5°	2831.9	915.5	961.8	1463.4	1568.1	1555.9	1314.9	1512.1	1648.5	1541.3
4424.3	75°	1560.8	618.5	686.7	1061.6	1273.5	1200.4	1129.8	1280.8	1419.6	1314.9
2773.4	77.5°	698.8	370.1	477.3	696.4	1000.8	823.0	874.2	998.3	1127.4	1017.8
1543.8	80°	270.3	207.0	316.5	379.9	728.1	455.3	562.5	735.4	827.9	740.2
336.0	82.5°	34.1	92.5	136.4	148.5	423.7	241.1	326.3	462.6	455.3	394.5
0.0	85°	0.0	17.0	19.5	9.7	182.6	87.7	107.1	151.0	141.2	107.1
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9	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°
4894.3	0°	4894.3	4894.3	4894.3	4894.3	4894.3	4894.3	4894.3	4894.3	4894.3	4894.3
4382.9	2.5°	4263.6	4176.0	4132.1	4095.6	4129.7	4149.2	4149.2	4232.0	4280.7	4300.2
3971.4	5°	3757.2	3594.0	3484.4	3418.7	3440.6	3465.0	3491.7	3596.5	3667.1	3713.3
3686.5	7.5°	3357.8	3109.5	2956.1	2875.7	2887.9	2904.9	2926.8	3029.1	3099.7	3160.6
3633.0	10°	3160.6	2810.0	2607.9	2510.5	2493.4	2483.7	2476.4	2537.2	2590.8	2639.5
3852.1	12.5°	3170.3	2680.9	2435.0	2315.7	2264.5	2206.1	2159.8	2169.6	2203.6	2264.5
4244.2	15°	3294.5	2639.5	2344.9	2196.3	2111.1	2042.9	1986.9	1974.8	1986.9	1996.7
4692.2	17.5°	3462.5	2634.6	2267.0	2081.9	1994.2	1938.2	1887.1	1870.1	1872.5	1884.7
4989.3	20°	3596.5	2620.0	2179.3	1972.3	1894.4	1845.7	1794.6	1777.5	1782.4	1784.8
5018.5	22.5°	3667.1	2598.1	2081.9	1862.8	1797.0	1748.3	1702.0	1699.6	1699.6	1714.2
4860.2	25°	3667.1	2551.8	1994.2	1758.0	1699.6	1655.8	1599.8	1609.5	1614.4	1633.9
4614.3	27.5°	3579.4	2464.2	1923.6	1668.0	1607.1	1563.3	1512.1	1524.3	1531.6	1553.5
4370.8	30°	3467.4	2359.5	1843.3	1582.7	1512.1	1480.5	1436.6	1441.5	1451.2	1475.6
4144.3	32.5°	3348.1	2235.3	1777.5	1497.5	1426.9	1402.5	1353.8	1361.1	1370.9	1397.7
3920.3	35°	3216.6	2089.2	1699.6	1419.6	1349.0	1329.5	1273.5	1278.4	1293.0	1322.2
3679.2	37.5°	3077.8	1969.9	1621.7	1344.1	1271.1	1251.6	1193.1	1198.0	1215.1	1249.1
3426.0	40°	2941.4	1853.0	1538.9	1263.7	1190.7	1173.7	1110.3	1115.2	1134.7	1171.2
3170.3	42.5°	2792.9	1762.9	1431.8	1181.0	1103.0	1086.0	1027.6	1034.9	1056.8	1093.3
2934.1	45°	2615.2	1704.5	1312.4	1103.0	1015.4	998.3	944.8	959.4	983.7	1020.3
2732.0	47.5°	2432.5	1680.1	1212.6	1020.3	925.3	910.7	866.8	891.2	918.0	947.2
2559.2	50°	2257.2	1648.5	1110.3	942.3	847.4	832.8	803.5	835.2	862.0	888.8
2435.0	52.5°	2057.5	1580.3	1017.8	874.2	781.6	776.8	762.1	791.4	815.7	840.1
2327.8	55°	1850.6	1470.7	937.5	813.3	725.6	730.5	723.2	747.5	767.0	788.9
2230.4	57.5°	1670.4	1331.9	874.2	747.5	676.9	691.5	681.8	694.0	706.1	732.9
2113.6	60°	1487.8	1166.4	803.5	669.6	628.2	645.3	618.5	616.0	620.9	628.2
1940.7	62.5°	1241.8	993.5	715.9	601.4	574.7	582.0	530.8	491.9	491.9	499.2
1699.6	65°	*998.3*	*832.8*	*618.5*	*523.5*	*501.6*	*496.7*	*423.7*	*370.1*	*365.2*	*387.2*
1419.6	67.5°	820.6	691.5	521.1	435.9	421.2	426.1	372.6	319.0	314.1	338.5
1156.6	70°	679.4	557.6	416.4	336.0	350.6	372.6	319.0	267.8	260.5	282.5
939.9	72.5°	540.6	435.9	319.0	248.4	289.8	316.5	260.5	211.8	207.0	226.5
725.6	75°	396.9	311.7	216.7	180.2	224.0	248.4	189.9	151.0	143.7	160.7
484.6	77.5°	245.9	175.3	136.4	107.1	153.4	165.6	99.8	87.7	85.2	97.4
294.6	80°	114.4	75.5	65.7	36.5	56.0	65.7	41.4	46.3	48.7	58.4
148.5	82.5°	31.7	12.2	2.4	0.0	0.0	19.5	9.7	19.5	24.3	36.5
12.2	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9	12.2	21.9
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.7
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):

285°		295°	305°	315°	325°	335°	345°	355°	360°
4894.3	0°	4894.3	4894.3	4894.3	4894.3	4894.3	4894.3	4894.3	4894.3
4436.5	2.5°	4538.8	4636.2	4792.0	4952.7	5111.0	5271.7	5427.5	5483.6
3925.2	5°	4117.5	4341.6	4650.8	4981.9	5322.8	5668.6	5985.2	6128.8
3396.8	7.5°	3647.6	3969.0	4434.1	4952.7	5495.7	6038.7	6537.9	6769.2
2873.3	10°	3146.0	3552.6	4083.4	4784.7	5563.9	6313.9	7000.5	7300.0
2413.1	12.5°	2668.7	3094.8	3681.7	4521.7	5510.3	6472.2	7297.6	7650.7
2089.2	15°	2269.4	2646.8	3279.9	4210.1	5337.5	6481.9	7438.8	7826.0
1909.0	17.5°	1969.9	2215.8	2870.8	3864.3	5111.0	6391.8	7487.5	7901.5
1811.6	20°	1821.4	1889.5	2340.0	3421.1	4899.2	6306.6	7536.2	7972.1
1733.7	22.5°	1733.7	1750.7	1913.9	2848.9	4645.9	6279.8	7621.5	8069.5
1663.1	25°	1663.1	1668.0	1711.8	2257.2	4258.8	6262.7	7752.9	8203.4
1590.0	27.5°	1592.5	1592.5	1616.8	1818.9	3732.8	6189.7	7923.4	8364.1
1517.0	30°	1521.9	1521.9	1538.9	1609.5	3116.8	6046.0	8127.9	8573.5
1443.9	32.5°	1448.8	1448.8	1463.4	1514.6	2488.5	5865.8	8315.4	8785.4
1368.5	35°	1375.8	1370.9	1390.4	1443.9	1979.6	5637.0	8502.9	9014.3
1293.0	37.5°	1297.8	1295.4	1314.9	1375.8	1709.3	5371.5	8644.1	9325.9
1217.5	40°	1215.1	1215.1	1237.0	1302.7	1631.4	5038.0	8868.2	9774.0
1139.6	42.5°	1139.6	1134.7	1159.0	1239.4	1573.0	4719.0	9269.9	10426.5
1069.0	45°	1066.5	1056.8	1078.7	1178.5	1470.7	4607.0	10019.9	11390.8
1000.8	47.5°	998.3	974.0	993.5	1105.5	1378.2	5025.8	11247.1	12727.6
939.9	50°	942.3	896.1	913.1	1032.4	1307.6	5934.0	12839.6	14502.7
883.9	52.5°	883.9	823.0	832.8	942.3	1244.3	6798.4	14566.0	16845.1
827.9	55°	823.0	754.8	759.7	852.2	1154.2	6927.5	16251.0	20039.8
764.6	57.5°	754.8	691.5	691.5	769.5	1088.4	6004.6	17546.4	24003.9
686.7	60°	679.4	638.0	625.8	703.7	1146.9	4236.8	17697.4	26560.7
586.8	62.5°	596.6	574.7	557.6	640.4	1190.7	2510.5	16482.3	25942.2
462.6	65°	*501.6*	*496.7*	*484.6*	*703.7*	*1003.2*	*1482.9*	*14149.6*	*24045.3*
394.5	67.5°	421.2	413.9	413.9	737.8	762.1	932.6	11054.8	21435.0
336.0	70°	362.8	336.0	336.0	557.6	462.6	645.3	7718.9	18617.8
277.6	72.5°	304.4	275.2	255.7	445.6	345.8	472.4	4823.7	15944.2
211.8	75°	243.5	221.6	197.2	294.6	258.1	357.9	2802.7	13209.7
133.9	77.5°	175.3	165.6	138.8	216.7	187.5	258.1	1668.0	10192.8
82.8	80°	90.1	92.5	87.7	124.2	126.6	175.3	949.6	6976.2
53.6	82.5°	53.6	41.4	46.3	60.9	73.0	99.8	357.9	4100.5
39.0	85°	34.1	21.9	21.9	29.2	36.5	39.0	109.6	1663.1
19.5	87.5°	17.0	7.3	9.7	14.6	12.2	9.7	4.9	418.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)