

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: P950593

Luminaire Tested: **GALN-SB5A-730-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950593
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-SB5A-730-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3000K, 350mA 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: 17294 lumens
Efficiency: N/A
Efficacy: 122.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 141.7
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



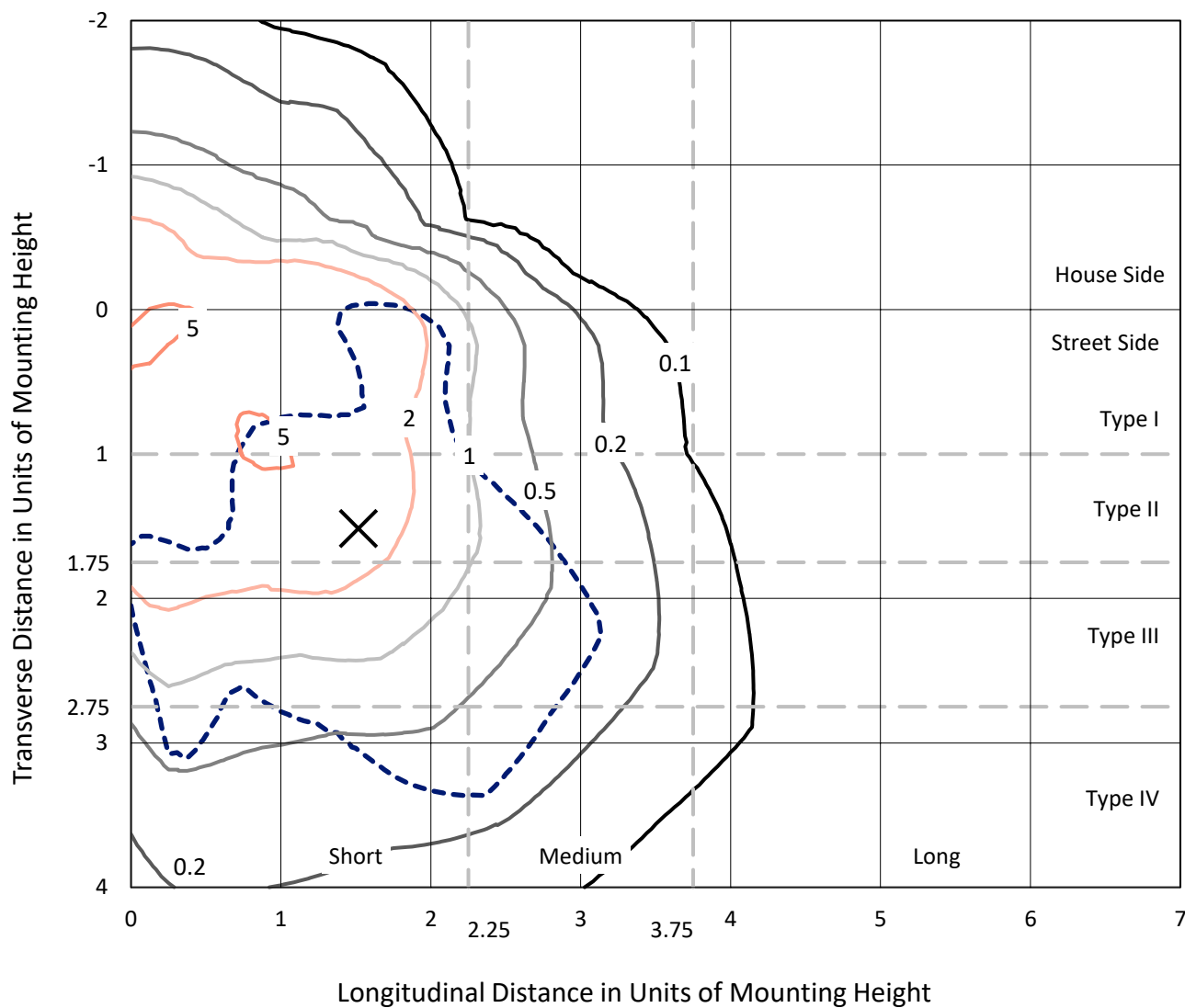
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

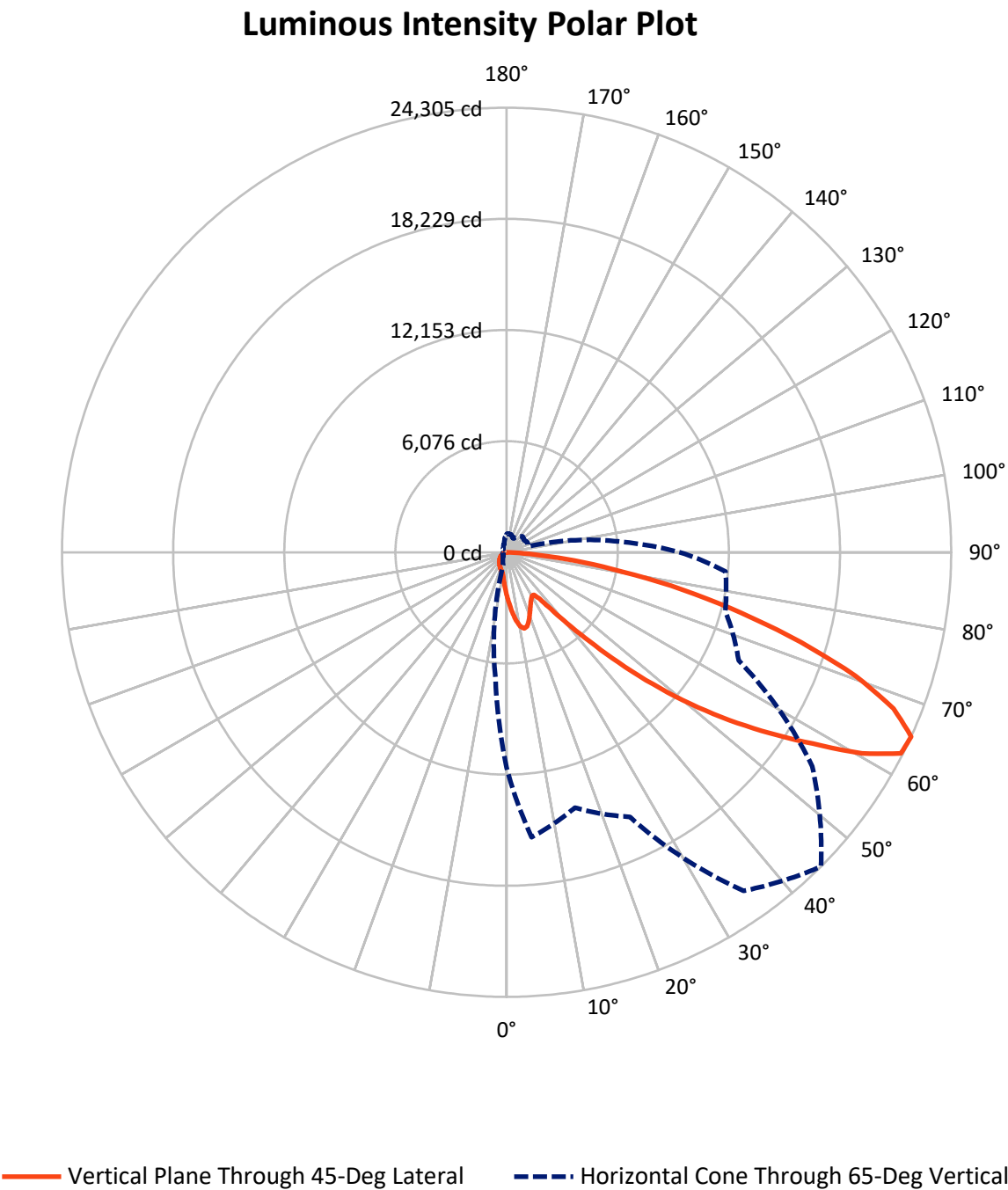
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc

Type IV - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3437.5	0.0	3437.5
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	13856.5	0.0	13856.5
	% Fixture	80.1	0.0	80.1
Total	Lumens	17294.0	0.0	17294.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.8	1.4
10°-20°	706.7	4.1
20°-30°	1041.2	6.0
30°-40°	1337.6	7.7
40°-50°	2163.4	12.5
50°-60°	3793.7	21.9
60°-70°	4746.9	27.4
70°-80°	2773.9	16.0
80°-90°	494.9	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°	17294.0	100.0
0°-180°	17294.0	100.0

Coefficient of Utilization



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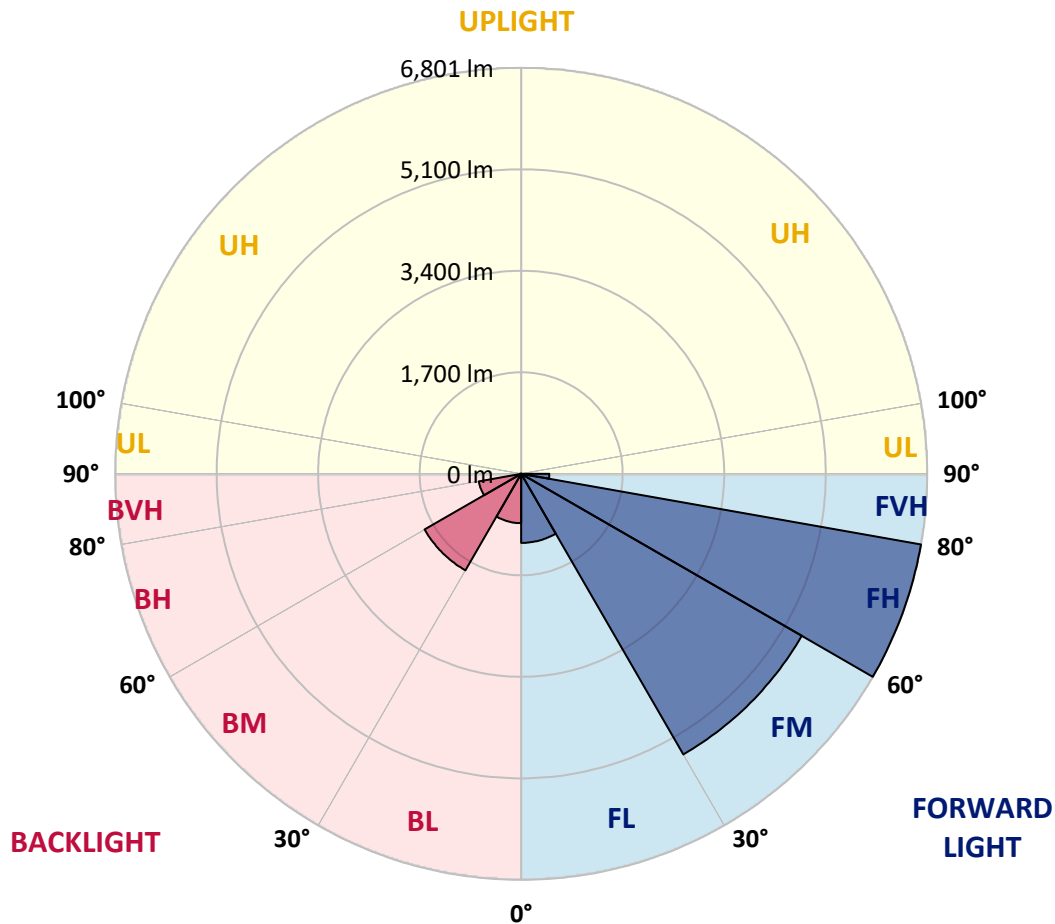
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1157.2	6.7			
FM	(30°-60°)	5427.1	31.4			
FH	(60°-80°)	6800.5	39.3			G3/7500
FVH	(80°-90°)	471.7	2.7			G3/500
BL	(0°-30°)	826.5	4.8	B2/1000		
BM	(30°-60°)	1867.6	10.8	B2/2500		
BH	(60°-80°)	720.2	4.2	B2/1000		G2/1000
BVH	(80°-90°)	23.2	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-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2394.7	2394.7	2394.7	2394.7	2394.7	2394.7	2394.7	2394.7	2394.7	2394.7	2394.7
2.5°	2683.0	2703.2	2748.5	2772.3	2809.3	2811.6	2811.6	2779.5	2778.3	2712.8	2705.6
5°	2998.7	3046.3	3153.6	3264.4	3288.2	3294.2	3282.2	3217.9	3170.3	3042.8	3015.4
7.5°	3312.0	3403.8	3567.0	3714.7	3762.4	3762.4	3733.8	3628.9	3531.2	3346.6	3277.5
10°	3571.7	3687.3	3908.9	4074.5	4129.3	4117.4	4059.0	3926.8	3792.1	3568.2	3477.6
12.5°	3743.3	3873.2	4116.2	4249.6	4305.6	4274.7	4207.9	4079.3	3937.5	3701.6	3599.1
15°	3829.1	3964.9	4175.8	4246.1	4230.6	4198.4	4190.1	4128.1	4020.9	3800.5	3688.5
17.5°	3866.0	3992.3	4138.8	4094.8	3963.7	3938.7	4022.1	4100.7	4074.5	3886.3	3781.4
20°	3900.6	4006.6	4050.7	3855.3	3626.5	3603.9	3763.6	3987.5	4101.9	3966.1	3869.6
22.5°	3948.2	4013.7	3923.2	3602.7	3356.1	3303.7	3480.0	3817.2	4110.2	4067.4	3970.9
25°	4013.7	4031.6	3782.6	3363.3	3115.4	3063.0	3227.4	3627.7	4096.0	4177.0	4094.8
27.5°	4092.4	4055.4	3648.0	3163.1	2923.6	2874.8	3039.2	3445.5	4055.4	4286.6	4228.2
30°	4194.8	4086.4	3514.6	3008.2	2786.6	2750.9	2909.3	3288.2	4005.4	4426.0	4393.8
32.5°	4298.5	4099.5	3390.7	2917.7	2755.7	2768.8	2898.6	3203.6	3950.6	4559.4	4574.9
35°	4410.5	4141.2	3329.9	3007.0	3014.2	3128.6	3182.2	3282.2	3942.3	4740.5	4801.2
37.5°	4563.0	4234.2	3402.6	3451.4	3699.2	3936.3	3892.2	3667.1	4038.8	5010.9	5124.1
40°	4782.2	4397.4	3719.5	4207.9	4716.7	5101.5	4933.5	4366.4	4334.2	5400.5	5569.7
42.5°	5101.5	4657.1	4281.8	5132.4	5995.0	6628.8	6178.5	5268.3	4851.3	5956.9	6172.5
45°	5573.3	5077.6	4962.1	6108.2	7571.2	8569.6	7633.1	6229.7	5575.6	6799.2	6968.4
47.5°	6227.3	5696.0	5599.5	7136.3	9486.9	10778.4	9246.3	7120.9	6400.1	7947.7	7987.0
50°	7095.8	6528.7	6203.5	8261.0	11587.3	13030.1	10858.2	7981.0	7344.8	9351.1	9305.8
52.5°	8241.9	7690.3	6907.6	9332.0	13747.3	15234.1	12477.3	8736.4	8517.1	10979.7	10886.8
55°	9805.0	9438.1	7870.2	10354.2	15906.1	17451.3	14033.2	9448.8	10065.9	12914.5	12352.2
57.5°	11744.6	12006.7	9258.2	11539.7	17846.8	19736.3	15596.3	10444.8	12077.0	15078.1	13202.8
60°	12995.5	15422.4	11916.1	13292.2	20052.0	22320.4	17738.4	12339.1	14190.5	15853.6	13040.8
62.5°	12692.9	16508.9	15099.5	15529.6	22079.8	24199.2	19837.6	14241.7	14588.4	14711.1	11792.2
65°	11764.8	15632.0	14450.2	15964.4	22593.3	24305.3	20398.7	13996.3	12374.8	12010.3	9478.6
67.5°	10487.7	14592.0	12907.4	14811.2	21665.2	22823.2	19353.9	12380.8	9563.2	9012.8	6876.6
70°	9109.3	13441.1	11894.7	13517.4	19896.0	20240.3	17577.6	10889.2	7033.9	6086.7	4412.9
72.5°	7801.1	12242.6	11201.3	12191.3	17535.9	16823.4	15265.1	9570.3	5121.7	4390.2	3136.9
75°	6463.2	10474.6	10213.7	10616.4	14432.3	13251.7	12683.4	7923.8	4019.7	3176.2	2164.7
77.5°	4987.1	8184.8	8785.2	8501.7	10158.9	9843.1	9831.2	5954.5	2936.7	2119.5	1357.0
80°	3413.3	5704.3	6863.5	5997.4	6593.1	6432.2	7404.4	3994.7	2130.2	1276.0	755.3
82.5°	2006.3	3472.9	4777.4	2903.4	3645.6	3742.1	4409.3	1943.1	1253.3	294.3	164.4
85°	813.7	1371.3	1868.1	1136.6	1758.5	1483.3	1673.9	545.7	349.1	7.1	0.0
87.5°	204.9	438.4	307.4	127.5	203.7	187.0	147.7	66.7	14.3	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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	2394.7	2394.7	2394.7	2394.7	2394.7	2394.7	2394.7	2394.7	2394.7	2394.7	2394.7
2.5°	2659.2	2631.7	2563.8	2495.9	2441.1	2367.3	2318.4	2260.0	2204.0	2154.0	2144.5
5°	2940.3	2849.8	2725.9	2612.7	2497.1	2385.1	2274.3	2157.6	2050.4	1984.8	1943.1
7.5°	3169.1	3009.4	2845.0	2700.8	2561.5	2430.4	2283.9	2142.1	1974.1	1884.8	1803.7
10°	3339.4	3129.7	2914.1	2748.5	2607.9	2480.4	2356.5	2213.6	2011.0	1899.1	1777.5
12.5°	3451.4	3202.4	2949.8	2760.4	2603.2	2504.3	2449.5	2393.5	2192.1	2061.1	1884.8
15°	3528.9	3253.6	2974.9	2733.0	2540.0	2467.3	2522.1	2586.5	2457.8	2306.5	2076.6
17.5°	3613.4	3320.4	2985.6	2659.2	2417.3	2386.3	2528.1	2677.0	2671.1	2521.0	2295.8
20°	3702.8	3378.7	2978.4	2540.0	2268.4	2295.8	2476.9	2649.6	2722.3	2641.3	2441.1
22.5°	3794.5	3434.7	2951.0	2385.1	2129.0	2214.8	2395.9	2547.2	2632.9	2607.9	2455.4
25°	3910.1	3513.4	2910.5	2218.3	2013.4	2132.6	2301.7	2424.5	2484.0	2482.8	2378.0
27.5°	4048.3	3618.2	2889.1	2083.7	1931.2	2039.6	2189.7	2299.4	2341.1	2341.1	2257.7
30°	4209.1	3742.1	2865.3	1995.6	1883.6	1943.1	2059.9	2167.1	2208.8	2208.8	2138.5
32.5°	4387.8	3861.2	2808.1	1941.9	1847.8	1849.0	1922.9	2020.6	2070.6	2077.8	2027.7
35°	4602.3	3988.7	2683.0	1899.1	1806.1	1757.3	1793.0	1874.0	1933.6	1949.1	1918.1
37.5°	4883.4	4144.8	2504.3	1835.9	1741.8	1660.8	1669.1	1731.1	1796.6	1820.4	1800.2
40°	5261.1	4328.3	2318.4	1745.4	1651.2	1554.7	1551.2	1596.4	1660.8	1687.0	1676.3
42.5°	5760.3	4548.7	2140.9	1658.4	1541.6	1442.8	1436.8	1472.5	1528.5	1555.9	1551.2
45°	6398.9	4819.1	1988.4	1590.5	1434.4	1336.7	1334.3	1364.1	1413.0	1441.6	1435.6
47.5°	7286.5	5089.6	1884.8	1554.7	1349.8	1249.8	1254.5	1280.7	1324.8	1345.1	1336.7
50°	8443.3	5171.8	1832.3	1554.7	1304.6	1172.3	1196.1	1217.6	1250.9	1262.9	1252.1
52.5°	9553.6	4900.1	1784.7	1564.3	1310.5	1106.8	1158.0	1173.5	1202.1	1206.9	1191.4
55°	10098.1	4212.7	1719.2	1566.7	1347.4	1050.8	1127.0	1155.6	1166.4	1165.2	1139.0
57.5°	9911.1	3406.1	1608.4	1557.1	1372.5	1015.1	1088.9	1143.7	1150.9	1140.1	1091.3
60°	9254.6	2507.8	1523.8	1486.8	1362.9	1004.3	1030.5	1117.5	1128.2	1113.9	1034.1
62.5°	8153.8	1740.6	1458.2	1332.0	1321.2	1000.8	938.8	1060.3	1086.5	1066.3	949.5
65°	6419.1	1229.5	1255.7	1167.5	1230.7	981.7	843.5	991.2	1027.0	996.0	831.6
67.5°	4343.8	887.6	1017.4	1057.9	1084.2	938.8	774.4	912.6	960.2	919.7	694.6
70°	2345.8	623.1	671.9	891.1	920.9	864.9	712.4	832.8	887.6	843.5	565.9
72.5°	1385.6	448.0	470.6	716.0	767.2	761.3	643.3	739.8	806.6	754.1	459.9
75°	763.7	302.6	336.0	519.4	623.1	587.3	552.8	626.7	694.6	643.3	355.0
77.5°	341.9	181.1	233.5	340.7	489.7	402.7	427.7	488.5	551.6	498.0	237.1
80°	132.2	101.3	154.9	185.9	356.2	222.8	275.2	359.8	405.1	362.2	144.2
82.5°	16.7	45.3	66.7	72.7	207.3	117.9	159.6	226.4	222.8	193.0	72.7
85°	0.0	8.3	9.5	4.8	89.4	42.9	52.4	73.9	69.1	52.4	6.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	2394.7	2394.7	2394.7	2394.7	2394.7	2394.7	2394.7	2394.7	2394.7	2394.7	2394.7
2.5°	2086.1	2043.2	2021.8	2003.9	2020.6	2030.1	2030.1	2070.6	2094.4	2104.0	2170.7
5°	1838.3	1758.5	1704.9	1672.7	1683.4	1695.3	1708.4	1759.7	1794.2	1816.8	1920.5
7.5°	1642.9	1521.4	1446.3	1407.0	1413.0	1421.3	1432.0	1482.1	1516.6	1546.4	1662.0
10°	1546.4	1374.8	1276.0	1228.3	1220.0	1215.2	1211.6	1241.4	1267.6	1291.5	1405.8
12.5°	1551.2	1311.7	1191.4	1133.0	1108.0	1079.4	1056.8	1061.5	1078.2	1108.0	1180.7
15°	1611.9	1291.5	1147.3	1074.6	1032.9	999.6	972.2	966.2	972.2	976.9	1022.2
17.5°	1694.1	1289.1	1109.2	1018.6	975.7	948.3	923.3	915.0	916.2	922.1	934.0
20°	1759.7	1281.9	1066.3	965.0	926.9	903.1	878.0	869.7	872.1	873.3	886.4
22.5°	1794.2	1271.2	1018.6	911.4	879.2	855.4	832.8	831.6	831.6	838.7	848.3
25°	1794.2	1248.6	975.7	860.2	831.6	810.1	782.7	787.5	789.9	799.4	813.7
27.5°	1751.3	1205.7	941.2	816.1	786.3	764.9	739.8	745.8	749.4	760.1	778.0
30°	1696.5	1154.4	901.9	774.4	739.8	724.4	702.9	705.3	710.1	722.0	742.2
32.5°	1638.1	1093.7	869.7	732.7	698.1	686.2	662.4	666.0	670.7	683.8	706.5
35°	1573.8	1022.2	831.6	694.6	660.0	650.5	623.1	625.5	632.6	646.9	669.6
37.5°	1505.9	963.8	793.5	657.6	621.9	612.4	583.8	586.2	594.5	611.2	632.6
40°	1439.2	906.6	752.9	618.3	582.6	574.2	543.3	545.7	555.2	573.1	595.7
42.5°	1366.5	862.6	700.5	577.8	539.7	531.4	502.8	506.3	517.1	534.9	557.6
45°	1279.5	834.0	642.2	539.7	496.8	488.5	462.3	469.4	481.3	499.2	523.0
47.5°	1190.2	822.0	593.3	499.2	452.7	445.6	424.1	436.0	449.1	463.4	489.7
50°	1104.4	806.6	543.3	461.1	414.6	407.5	393.2	408.6	421.7	434.9	459.9
52.5°	1006.7	773.2	498.0	427.7	382.4	380.0	372.9	387.2	399.1	411.0	432.5
55°	905.4	719.6	458.7	397.9	355.0	357.4	353.8	365.8	375.3	386.0	405.1
57.5°	817.3	651.7	427.7	365.8	331.2	338.4	333.6	339.5	345.5	358.6	374.1
60°	727.9	570.7	393.2	327.6	307.4	315.7	302.6	301.4	303.8	307.4	336.0
62.5°	607.6	486.1	350.3	294.3	281.2	284.7	259.7	240.7	240.7	244.2	287.1
65°	488.5	407.5	302.6	256.1	245.4	243.0	207.3	181.1	178.7	189.4	226.4
67.5°	401.5	338.4	255.0	213.3	206.1	208.5	182.3	156.1	153.7	165.6	193.0
70°	332.4	272.8	203.7	164.4	171.6	182.3	156.1	131.1	127.5	138.2	164.4
72.5°	264.5	213.3	156.1	121.5	141.8	154.9	127.5	103.6	101.3	110.8	135.8
75°	194.2	152.5	106.0	88.2	109.6	121.5	92.9	73.9	70.3	78.6	103.6
77.5°	120.3	85.8	66.7	52.4	75.1	81.0	48.8	42.9	41.7	47.7	65.5
80°	56.0	36.9	32.2	17.9	27.4	32.2	20.3	22.6	23.8	28.6	40.5
82.5°	15.5	6.0	1.2	0.0	0.0	9.5	4.8	9.5	11.9	17.9	26.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	6.0	10.7	19.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	9.5
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°	2394.7	2394.7	2394.7	2394.7	2394.7	2394.7	2394.7	2394.7
2.5°	2220.7	2268.4	2344.6	2423.3	2500.7	2579.3	2655.6	2683.0
5°	2014.6	2124.2	2275.5	2437.6	2604.3	2773.5	2928.4	2998.7
7.5°	1784.7	1941.9	2169.5	2423.3	2688.9	2954.6	3198.8	3312.0
10°	1539.3	1738.2	1997.9	2341.1	2722.3	3089.2	3425.2	3571.7
12.5°	1305.7	1514.2	1801.4	2212.4	2696.1	3166.7	3570.6	3743.3
15°	1110.4	1295.0	1604.8	2059.9	2611.5	3171.4	3639.7	3829.1
17.5°	963.8	1084.2	1404.6	1890.7	2500.7	3127.4	3663.5	3866.0
20°	891.1	924.5	1144.9	1673.9	2397.0	3085.7	3687.3	3900.6
22.5°	848.3	856.6	936.4	1393.9	2273.1	3072.6	3729.0	3948.2
25°	813.7	816.1	837.5	1104.4	2083.7	3064.2	3793.3	4013.7
27.5°	779.2	779.2	791.1	890.0	1826.4	3028.5	3876.7	4092.4
30°	744.6	744.6	752.9	787.5	1525.0	2958.2	3976.8	4194.8
32.5°	708.9	708.9	716.0	741.0	1217.6	2870.0	4068.5	4298.5
35°	673.1	670.7	680.3	706.5	968.6	2758.0	4160.3	4410.5
37.5°	635.0	633.8	643.3	673.1	836.3	2628.2	4229.4	4563.0
40°	594.5	594.5	605.2	637.4	798.2	2465.0	4339.0	4782.2
42.5°	557.6	555.2	567.1	606.4	769.6	2308.9	4535.6	5101.5
45°	521.8	517.1	527.8	576.6	719.6	2254.1	4902.5	5573.3
47.5°	488.5	476.6	486.1	540.9	674.3	2459.0	5503.0	6227.3
50°	461.1	438.4	446.8	505.1	639.8	2903.4	6282.1	7095.8
52.5°	432.5	402.7	407.5	461.1	608.8	3326.3	7126.8	8241.9
55°	402.7	369.3	371.7	417.0	564.7	3389.5	7951.2	9805.0
57.5°	369.3	338.4	338.4	376.5	532.5	2937.9	8585.1	11744.6
60°	332.4	312.1	306.2	344.3	561.1	2073.0	8658.9	12995.5
62.5°	291.9	281.2	272.8	313.3	582.6	1228.3	8064.4	12692.9
65°	245.4	243.0	237.1	344.3	490.8	725.5	6923.1	11764.8
67.5°	206.1	202.5	202.5	361.0	372.9	456.3	5408.8	10487.7
70°	177.5	164.4	164.4	272.8	226.4	315.7	3776.7	9109.3
72.5°	148.9	134.6	125.1	218.0	169.2	231.1	2360.1	7801.1
75°	119.1	108.4	96.5	144.2	126.3	175.1	1371.3	6463.2
77.5°	85.8	81.0	67.9	106.0	91.7	126.3	816.1	4987.1
80°	44.1	45.3	42.9	60.8	62.0	85.8	464.6	3413.3
82.5°	26.2	20.3	22.6	29.8	35.7	48.8	175.1	2006.3
85°	16.7	10.7	10.7	14.3	17.9	19.1	53.6	813.7
87.5°	8.3	3.6	4.8	7.1	6.0	4.8	2.4	204.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)