

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: P951937

Luminaire Tested: **GALN-SB5D-940-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951937
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-SB5D-940-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 4000K, 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: 28428 lumens
Efficiency: N/A
Efficacy: 77.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

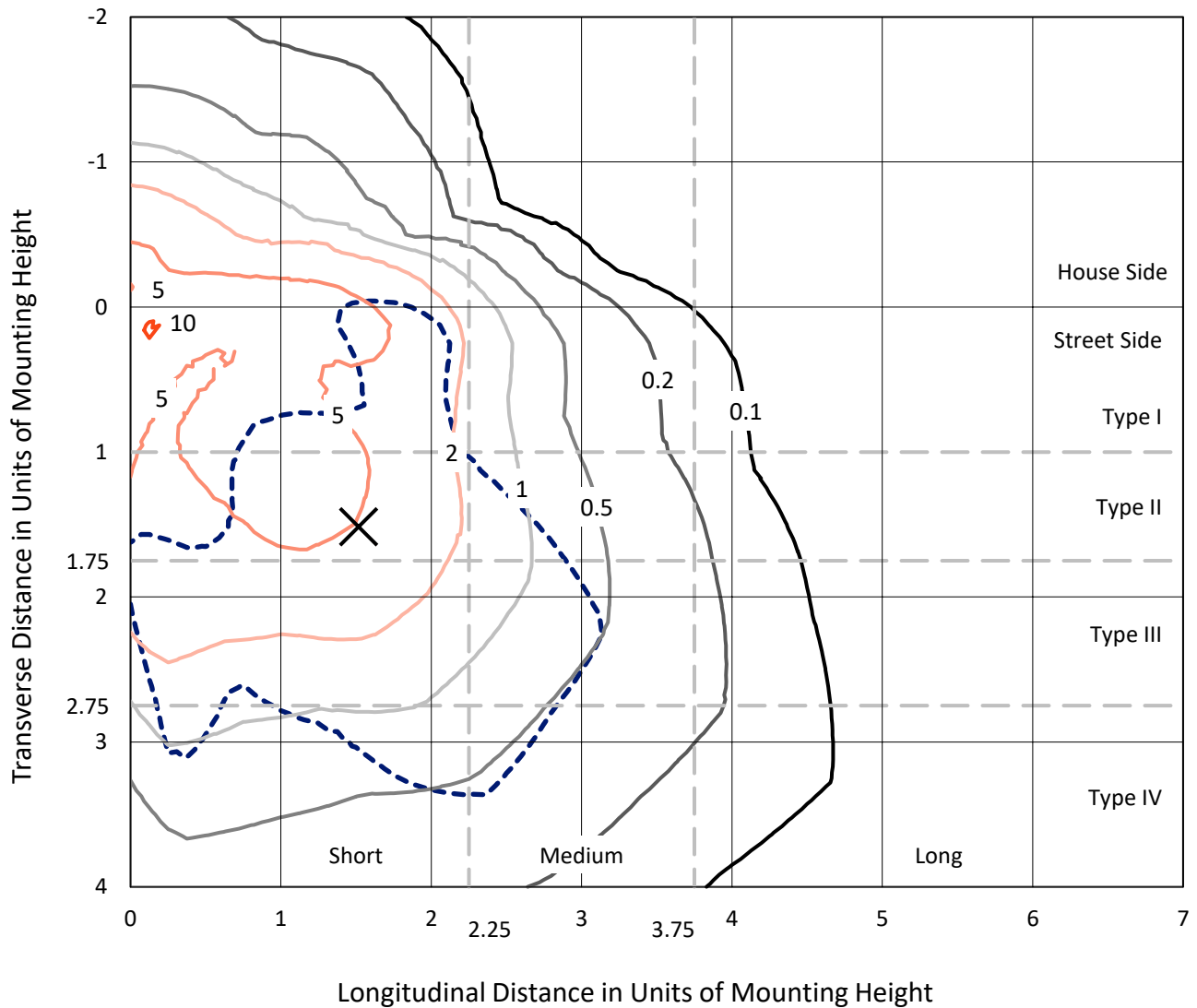
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

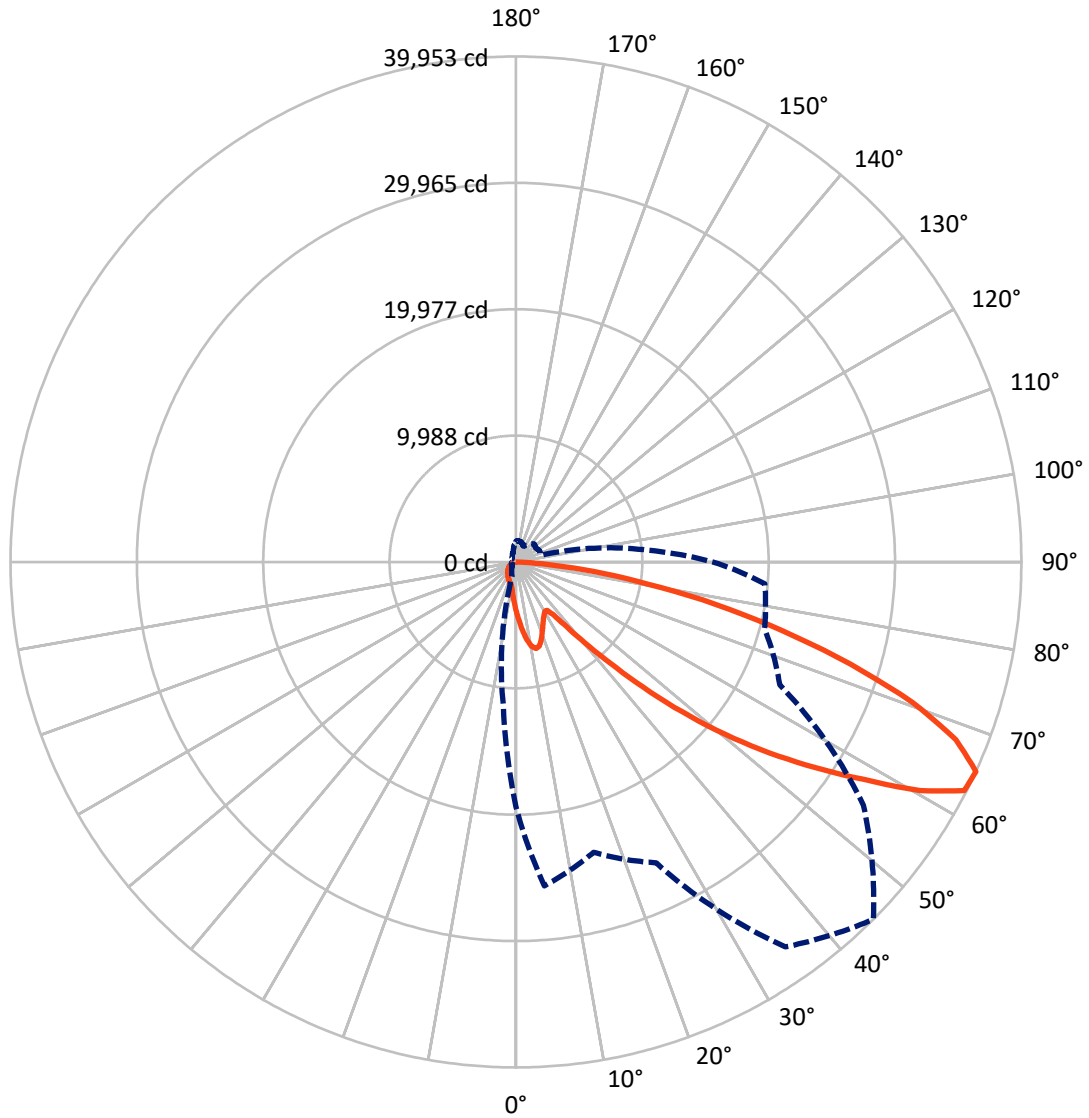
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 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
House Side	Lumens	5650.6	0.0	5650.6
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	22777.4	0.0	22777.4
	% Fixture	80.1	0.0	80.1
Total	Lumens	28428.0	0.0	28428.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	387.6	1.4
10°-20°	1161.8	4.1
20°-30°	1711.5	6.0
30°-40°	2198.8	7.7
40°-50°	3556.1	12.5
50°-60°	6236.0	21.9
60°-70°	7803.0	27.4
70°-80°	4559.7	16.0
80°-90°	813.5	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°	28428.0	100.0
0°-180°	28428.0	100.0



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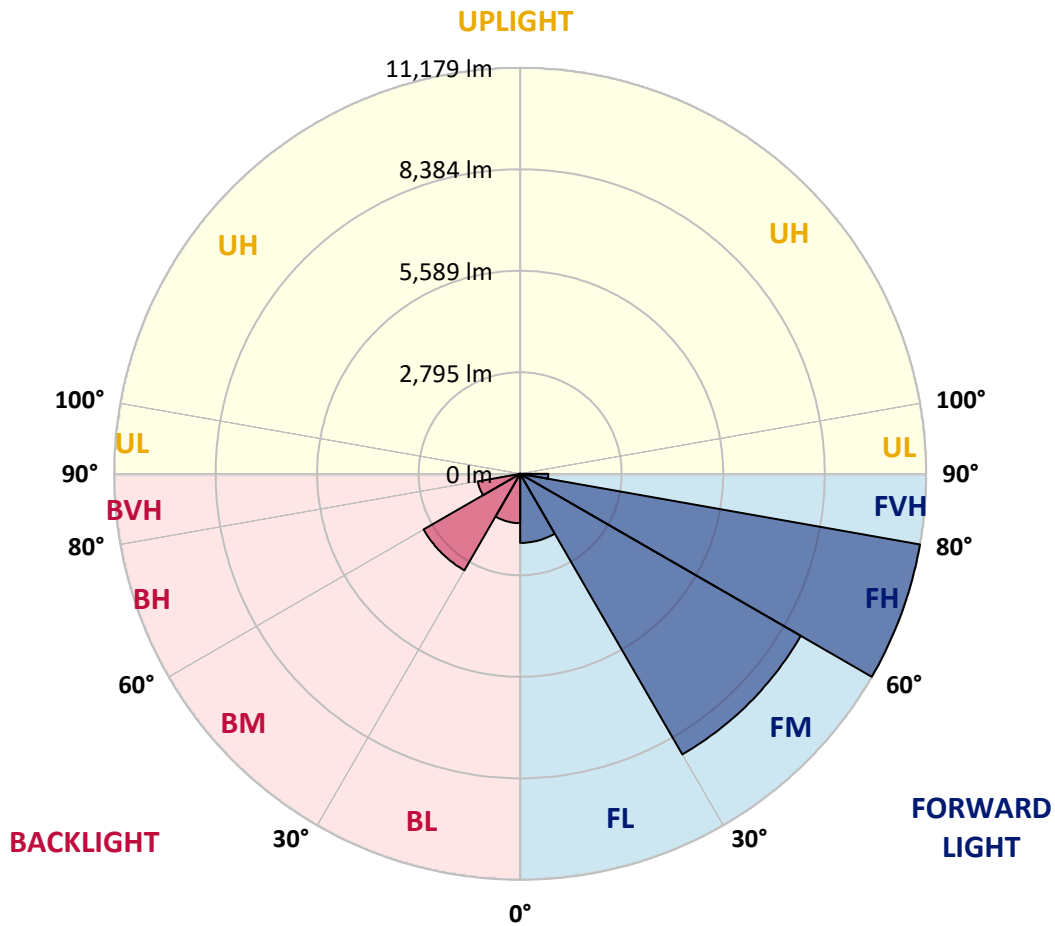
CATALOG NUMBER: GALN-SB5D-940-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1902.2	6.7			
FM (30°-60°)	8921.0	31.4			
FH (60°-80°)	11178.8	39.3			G4/12000
FVH (80°-90°)	775.4	2.7			G5
BL (0°-30°)	1358.6	4.8	B3/2500		
BM (30°-60°)	3069.9	10.8	B3/5000		
BH (60°-80°)	1183.9	4.2	B3/2500		G3/2500
BVH (80°-90°)	38.1	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3936.4	3936.4	3936.4	3936.4	3936.4	3936.4	3936.4	3936.4	3936.4	3936.4
2.5°	4410.3	4443.6	4518.0	4557.2	4617.9	4621.8	4621.8	4568.9	4567.0	4459.3
5°	4929.3	5007.6	5183.9	5366.0	5405.2	5415.0	5395.4	5289.6	5211.3	5001.7
7.5°	5444.3	5595.1	5863.4	6106.3	6184.6	6184.6	6137.6	5965.3	5804.7	5501.1
10°	5871.3	6061.2	6425.5	6697.7	6787.8	6768.2	6672.2	6454.9	6233.6	5865.4
12.5°	6153.3	6366.7	6766.2	6985.6	7077.6	7026.7	6917.0	6705.5	6472.5	6084.7
15°	6294.3	6517.5	6864.2	6979.7	6954.3	6901.4	6887.7	6785.8	6609.6	6247.3
17.5°	6355.0	6562.6	6803.5	6731.0	6515.6	6474.4	6611.5	6740.8	6697.7	6388.3
20°	6411.8	6586.1	6658.5	6337.4	5961.3	5924.1	6186.6	6554.7	6742.7	6519.5
22.5°	6490.1	6597.8	6449.0	5922.2	5516.8	5430.6	5720.5	6274.7	6756.5	6686.0
25°	6597.8	6627.2	6217.9	5528.5	5121.2	5035.0	5305.3	5963.3	6733.0	6866.1
27.5°	6727.1	6666.4	5996.6	5199.5	4805.9	4725.6	4995.9	5663.7	6666.4	7046.3
30°	6895.5	6717.3	5777.3	4944.9	4580.7	4521.9	4782.4	5405.2	6584.1	7275.4
32.5°	7065.9	6738.8	5573.6	4796.1	4529.8	4551.3	4764.8	5266.1	6494.0	7494.8
35°	7250.0	6807.4	5473.7	4943.0	4954.7	5142.7	5230.9	5395.4	6480.3	7792.4
37.5°	7500.6	6960.1	5593.2	5673.5	6080.8	6470.5	6398.1	6027.9	6638.9	8237.0
40°	7861.0	7228.4	6114.1	6917.0	7753.3	8385.8	8109.7	7177.5	7124.6	8877.4
42.5°	8385.8	7655.4	7038.5	8436.8	9854.6	10896.5	10156.2	8660.0	7974.6	9792.0
45°	9161.4	8346.7	8156.7	10040.7	12445.6	14086.7	12547.4	10240.4	9165.3	11176.5
47.5°	10236.5	9363.1	9204.4	11730.8	15594.7	17717.6	15199.1	11705.3	10520.5	13064.4
50°	11664.2	10732.0	10197.3	13579.5	19047.3	21418.9	17848.8	13119.3	12073.5	15371.4
52.5°	13548.2	12641.4	11354.8	15340.1	22597.9	25042.0	20510.2	14360.9	14000.5	18048.5
55°	16117.6	15514.4	12937.1	17020.4	26146.5	28686.5	23067.9	15532.0	16546.5	21229.0
57.5°	19305.8	19736.7	15218.7	18969.0	29336.7	32442.7	25637.3	17169.2	19852.2	24785.4
60°	21362.1	25351.4	19587.8	21849.8	32961.7	36690.5	29158.5	20283.1	23326.4	26060.3
62.5°	20864.7	27137.4	24820.7	25527.6	36294.9	39778.9	32609.2	23410.6	23980.5	24182.2
65°	19339.1	25696.1	23753.3	26242.5	37139.0	39953.2	33531.6	23007.2	20341.8	19742.6
67.5°	17239.7	23986.4	21217.2	24346.7	35613.4	37516.9	31814.1	20351.6	15720.0	14815.2
70°	14973.9	22094.6	19552.6	22219.9	32705.2	33271.1	28894.1	17899.7	11562.3	10005.4
72.5°	12823.6	20124.4	18412.8	20040.2	28825.6	27654.5	25092.9	15731.8	8419.1	7216.7
75°	10624.3	17218.2	16789.3	17451.2	23724.0	21783.2	20849.0	13025.3	6607.6	5221.1
77.5°	8197.8	13454.2	14441.2	13975.1	16699.2	16180.2	16160.7	9788.0	4827.4	3484.0
80°	5610.8	9376.8	11282.3	9858.5	10837.7	10573.4	12171.4	6566.5	3501.6	2097.4
82.5°	3297.9	5708.7	7853.2	4772.6	5992.7	6151.3	7248.0	3194.1	2060.2	483.7
85°	1337.6	2254.1	3070.8	1868.3	2890.6	2438.2	2751.5	896.9	573.8	11.8
87.5°	336.8	720.7	505.3	209.5	334.9	307.5	242.8	109.7	23.5	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):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
3936.4	0°	3936.4	3936.4	3936.4	3936.4	3936.4	3936.4	3936.4	3936.4	3936.4	3936.4
4447.5	2.5°	4371.1	4326.1	4214.5	4102.8	4012.7	3891.3	3811.0	3715.1	3623.0	3540.8
4956.7	5°	4833.3	4684.5	4480.8	4294.8	4104.8	3920.7	3738.6	3546.6	3370.4	3262.7
5387.5	7.5°	5209.3	4946.9	4676.6	4439.7	4210.5	3995.1	3754.2	3521.2	3245.1	3098.2
5716.5	10°	5489.4	5144.7	4790.2	4518.0	4286.9	4077.4	3873.7	3638.7	3305.8	3121.7
5916.3	12.5°	5673.5	5264.2	4849.0	4537.6	4279.1	4116.5	4026.5	3934.4	3603.4	3388.0
6063.2	15°	5800.8	5348.4	4890.1	4492.6	4175.3	4055.8	4145.9	4251.7	4040.2	3791.4
6215.9	17.5°	5939.8	5458.0	4907.7	4371.1	3973.6	3922.7	4155.7	4400.5	4390.7	4144.0
6360.9	20°	6086.7	5554.0	4896.0	4175.3	3728.8	3773.8	4071.5	4355.5	4474.9	4341.8
6527.3	22.5°	6237.5	5646.0	4850.9	3920.7	3499.6	3640.7	3938.3	4187.0	4328.0	4286.9
6731.0	25°	6427.4	5775.3	4784.4	3646.5	3309.7	3505.5	3783.6	3985.3	4083.2	4081.3
6950.3	27.5°	6654.6	5947.6	4749.1	3425.2	3174.6	3352.8	3599.5	3779.7	3848.2	3848.2
7222.6	30°	6919.0	6151.3	4709.9	3280.3	3096.2	3194.1	3386.1	3562.3	3630.9	3630.9
7520.2	32.5°	7212.8	6347.1	4615.9	3192.2	3037.5	3039.4	3160.8	3321.4	3403.7	3415.4
7892.3	35°	7565.3	6556.7	4410.3	3121.7	2968.9	2888.6	2947.4	3080.6	3178.5	3203.9
8423.0	37.5°	8027.4	6813.2	4116.5	3017.9	2863.2	2730.0	2743.7	2845.5	2953.3	2992.4
9155.5	40°	8648.3	7114.8	3811.0	2869.0	2714.3	2555.7	2549.8	2624.2	2730.0	2773.1
10146.4	42.5°	9468.8	7477.1	3519.2	2726.1	2534.2	2371.6	2361.8	2420.6	2512.6	2557.7
11454.6	45°	10518.5	7921.7	3268.6	2614.5	2357.9	2197.3	2193.4	2242.4	2322.7	2369.7
13129.1	47.5°	11977.5	8366.3	3098.2	2555.7	2218.9	2054.4	2062.2	2105.3	2177.7	2211.0
15297.0	50°	13879.1	8501.4	3012.0	2555.7	2144.4	1927.1	1966.2	2001.5	2056.3	2075.9
17895.8	52.5°	15704.3	8054.9	2933.7	2571.4	2154.2	1819.3	1903.6	1929.0	1976.0	1983.9
20304.6	55°	16599.3	6924.9	2826.0	2575.3	2214.9	1727.3	1852.6	1899.6	1917.3	1915.3
21702.9	57.5°	16291.9	5599.0	2643.8	2559.6	2256.1	1668.6	1790.0	1880.1	1891.8	1874.2
21436.6	60°	15212.8	4122.4	2504.8	2444.1	2240.4	1650.9	1694.0	1837.0	1854.6	1831.1
19384.2	62.5°	13403.2	2861.2	2397.1	2189.5	2171.9	1645.0	1543.2	1743.0	1786.1	1752.8
15581.0	65°	10551.8	2021.1	2064.1	1919.2	2023.0	1613.7	1386.5	1629.4	1688.1	1637.2
11303.8	67.5°	7140.3	1459.0	1672.5	1739.1	1782.1	1543.2	1273.0	1500.1	1578.5	1511.9
7253.9	70°	3856.1	1024.2	1104.5	1464.9	1513.8	1421.8	1171.1	1368.9	1459.0	1386.5
5156.4	72.5°	2277.6	736.4	773.6	1177.0	1261.2	1251.4	1057.5	1216.2	1325.8	1239.7
3558.4	75°	1255.3	497.4	552.3	853.9	1024.2	965.5	908.7	1030.1	1141.7	1057.5
2230.6	77.5°	562.1	297.7	383.8	560.1	804.9	661.9	703.1	802.9	906.7	818.6
1241.6	80°	217.4	166.5	254.6	305.5	585.6	366.2	452.4	591.4	665.9	595.4
270.3	82.5°	27.4	74.4	109.7	119.5	340.8	193.9	262.4	372.1	366.2	317.3
0.0	85°	0.0	13.7	15.7	7.8	146.9	70.5	86.2	121.4	113.6	86.2
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9	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°
3936.4	0°	3936.4	3936.4	3936.4	3936.4	3936.4	3936.4	3936.4	3936.4	3936.4	3936.4
3525.1	2.5°	3429.1	3358.6	3323.4	3294.0	3321.4	3337.1	3337.1	3403.7	3442.9	3458.5
3194.1	5°	3021.8	2890.6	2802.5	2749.6	2767.2	2786.8	2808.3	2892.5	2949.3	2986.5
2965.0	7.5°	2700.6	2500.9	2377.5	2312.9	2322.7	2336.4	2354.0	2436.2	2493.0	2542.0
2921.9	10°	2542.0	2260.0	2097.4	2019.1	2005.4	1997.6	1991.7	2040.6	2083.7	2122.9
3098.2	12.5°	2549.8	2156.2	1958.4	1862.4	1821.3	1774.3	1737.1	1744.9	1772.3	1821.3
3413.5	15°	2649.7	2122.9	1885.9	1766.5	1697.9	1643.1	1598.0	1588.3	1598.0	1605.9
3773.8	17.5°	2784.8	2119.0	1823.3	1674.4	1603.9	1558.9	1517.8	1504.0	1506.0	1515.8
4012.7	20°	2892.5	2107.2	1752.8	1586.3	1523.6	1484.5	1443.3	1429.6	1433.5	1435.5
4036.2	22.5°	2949.3	2089.6	1674.4	1498.2	1445.3	1406.1	1368.9	1367.0	1367.0	1378.7
3909.0	25°	2949.3	2052.4	1603.9	1414.0	1367.0	1331.7	1286.7	1294.5	1298.4	1314.1
3711.2	27.5°	2878.8	1981.9	1547.1	1341.5	1292.5	1257.3	1216.2	1226.0	1231.8	1249.5
3515.3	30°	2788.8	1897.7	1482.5	1273.0	1216.2	1190.7	1155.5	1159.4	1167.2	1186.8
3333.2	32.5°	2692.8	1797.8	1429.6	1204.4	1147.6	1128.0	1088.9	1094.7	1102.6	1124.1
3153.0	35°	2587.0	1680.3	1367.0	1141.7	1084.9	1069.3	1024.2	1028.2	1039.9	1063.4
2959.1	37.5°	2475.4	1584.3	1304.3	1081.0	1022.3	1006.6	959.6	963.5	977.2	1004.7
2755.5	40°	2365.7	1490.3	1237.7	1016.4	957.7	943.9	893.0	896.9	912.6	942.0
2549.8	42.5°	2246.3	1417.9	1151.5	949.8	887.2	873.4	826.4	832.3	849.9	879.3
2359.9	45°	2103.3	1370.9	1055.6	887.2	816.6	802.9	759.9	771.6	791.2	820.6
2197.3	47.5°	1956.4	1351.3	975.3	820.6	744.2	732.4	697.2	716.8	738.3	761.8
2058.3	50°	1815.4	1325.8	893.0	757.9	681.5	669.8	646.3	671.7	693.3	714.8
1958.4	52.5°	1654.8	1271.0	818.6	703.1	628.6	624.7	613.0	636.5	656.1	675.6
1872.2	55°	1488.4	1182.9	754.0	654.1	583.6	587.5	581.6	601.2	616.9	634.5
1793.9	57.5°	1343.5	1071.2	703.1	601.2	544.4	556.2	548.3	558.1	567.9	589.5
1699.9	60°	1196.6	938.1	646.3	538.6	505.3	519.0	497.4	495.5	499.4	505.3
1560.8	62.5°	998.8	799.0	575.8	483.7	462.2	468.1	426.9	395.6	395.6	401.5
1367.0	65°	802.9	669.8	497.4	421.1	403.4	399.5	340.8	297.7	293.8	311.4
1141.7	67.5°	660.0	556.2	419.1	350.6	338.8	342.7	299.6	256.5	252.6	272.2
930.2	70°	546.4	448.5	334.9	270.3	282.0	299.6	256.5	215.4	209.5	227.2
755.9	72.5°	434.8	350.6	256.5	199.8	233.0	254.6	209.5	170.4	166.5	182.1
583.6	75°	319.2	250.7	174.3	144.9	180.2	199.8	152.8	121.4	115.5	129.3
389.7	77.5°	197.8	141.0	109.7	86.2	123.4	133.2	80.3	70.5	68.5	78.3
237.0	80°	92.0	60.7	52.9	29.4	45.0	52.9	33.3	37.2	39.2	47.0
119.5	82.5°	25.5	9.8	2.0	0.0	0.0	15.7	7.8	15.7	19.6	29.4
9.8	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9	9.8	17.6
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.8
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°
3936.4	0°	3936.4	3936.4	3936.4	3936.4	3936.4	3936.4	3936.4	3936.4
3568.2	2.5°	3650.4	3728.8	3854.1	3983.4	4110.7	4239.9	4365.3	4410.3
3156.9	5°	3311.6	3491.8	3740.5	4006.9	4281.0	4559.1	4813.7	4929.3
2732.0	7.5°	2933.7	3192.2	3566.2	3983.4	4420.1	4856.8	5258.3	5444.3
2310.9	10°	2530.2	2857.3	3284.2	3848.2	4474.9	5078.1	5630.4	5871.3
1940.8	12.5°	2146.4	2489.1	2961.1	3636.7	4431.8	5205.4	5869.3	6153.3
1680.3	15°	1825.2	2128.8	2638.0	3386.1	4292.8	5213.2	5982.9	6294.3
1535.4	17.5°	1584.3	1782.1	2308.9	3108.0	4110.7	5140.8	6022.1	6355.0
1457.0	20°	1464.9	1519.7	1882.0	2751.5	3940.3	5072.2	6061.2	6411.8
1394.4	22.5°	1394.4	1408.1	1539.3	2291.3	3736.6	5050.7	6129.8	6490.1
1337.6	25°	1337.6	1341.5	1376.7	1815.4	3425.2	5037.0	6235.5	6597.8
1278.8	27.5°	1280.8	1280.8	1300.4	1462.9	3002.2	4978.2	6372.6	6727.1
1220.1	30°	1224.0	1224.0	1237.7	1294.5	2506.7	4862.7	6537.1	6895.5
1161.3	32.5°	1165.2	1165.2	1177.0	1218.1	2001.5	4717.8	6687.9	7065.9
1100.6	35°	1106.5	1102.6	1118.2	1161.3	1592.2	4533.7	6838.7	7250.0
1039.9	37.5°	1043.8	1041.9	1057.5	1106.5	1374.8	4320.2	6952.3	7500.6
979.2	40°	977.2	977.2	994.9	1047.7	1312.1	4051.9	7132.5	7861.0
916.5	42.5°	916.5	912.6	932.2	996.8	1265.1	3795.4	7455.6	8385.8
859.7	45°	857.8	849.9	867.6	947.9	1182.9	3705.3	8058.8	9161.4
804.9	47.5°	802.9	783.4	799.0	889.1	1108.4	4042.1	9045.8	10236.5
755.9	50°	757.9	720.7	734.4	830.4	1051.7	4772.6	10326.6	11664.2
710.9	52.5°	710.9	661.9	669.8	757.9	1000.7	5467.8	11715.1	13548.2
665.9	55°	661.9	607.1	611.0	685.4	928.3	5571.6	13070.3	16117.6
614.9	57.5°	607.1	556.2	556.2	618.9	875.4	4829.4	14112.2	19305.8
552.3	60°	546.4	513.1	503.3	566.0	922.4	3407.6	14233.6	21362.1
472.0	62.5°	479.8	462.2	448.5	515.1	957.7	2019.1	13256.4	20864.7
372.1	65°	403.4	399.5	389.7	566.0	806.9	1192.7	11380.2	19339.1
317.3	67.5°	338.8	332.9	332.9	593.4	613.0	750.1	8891.1	17239.7
270.3	70°	291.8	270.3	270.3	448.5	372.1	519.0	6208.1	14973.9
223.3	72.5°	244.8	221.3	205.6	358.4	278.1	379.9	3879.6	12823.6
170.4	75°	195.8	178.2	158.6	237.0	207.6	287.9	2254.1	10624.3
107.7	77.5°	141.0	133.2	111.6	174.3	150.8	207.6	1341.5	8197.8
66.6	80°	72.5	74.4	70.5	99.9	101.8	141.0	763.8	5610.8
43.1	82.5°	43.1	33.3	37.2	49.0	58.8	80.3	287.9	3297.9
31.3	85°	27.4	17.6	17.6	23.5	29.4	31.3	88.1	1337.6
15.7	87.5°	13.7	5.9	7.8	11.8	9.8	7.8	3.9	336.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)