

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: P951897

Luminaire Tested: **GALN-SB5D-930-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951897
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-930-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 3000K, 900mA 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: 27291 lumens
Efficiency: N/A
Efficacy: 74.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

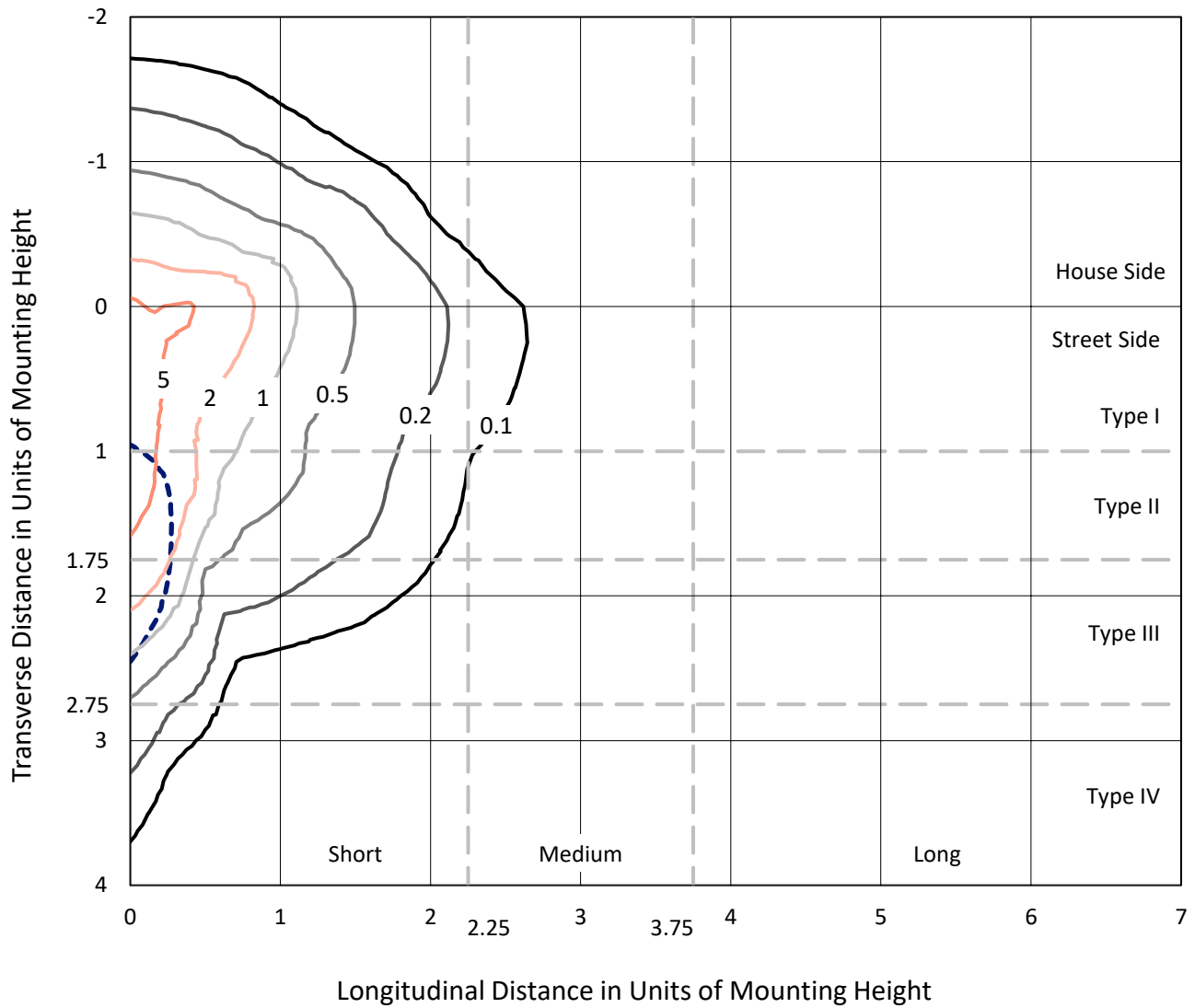
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

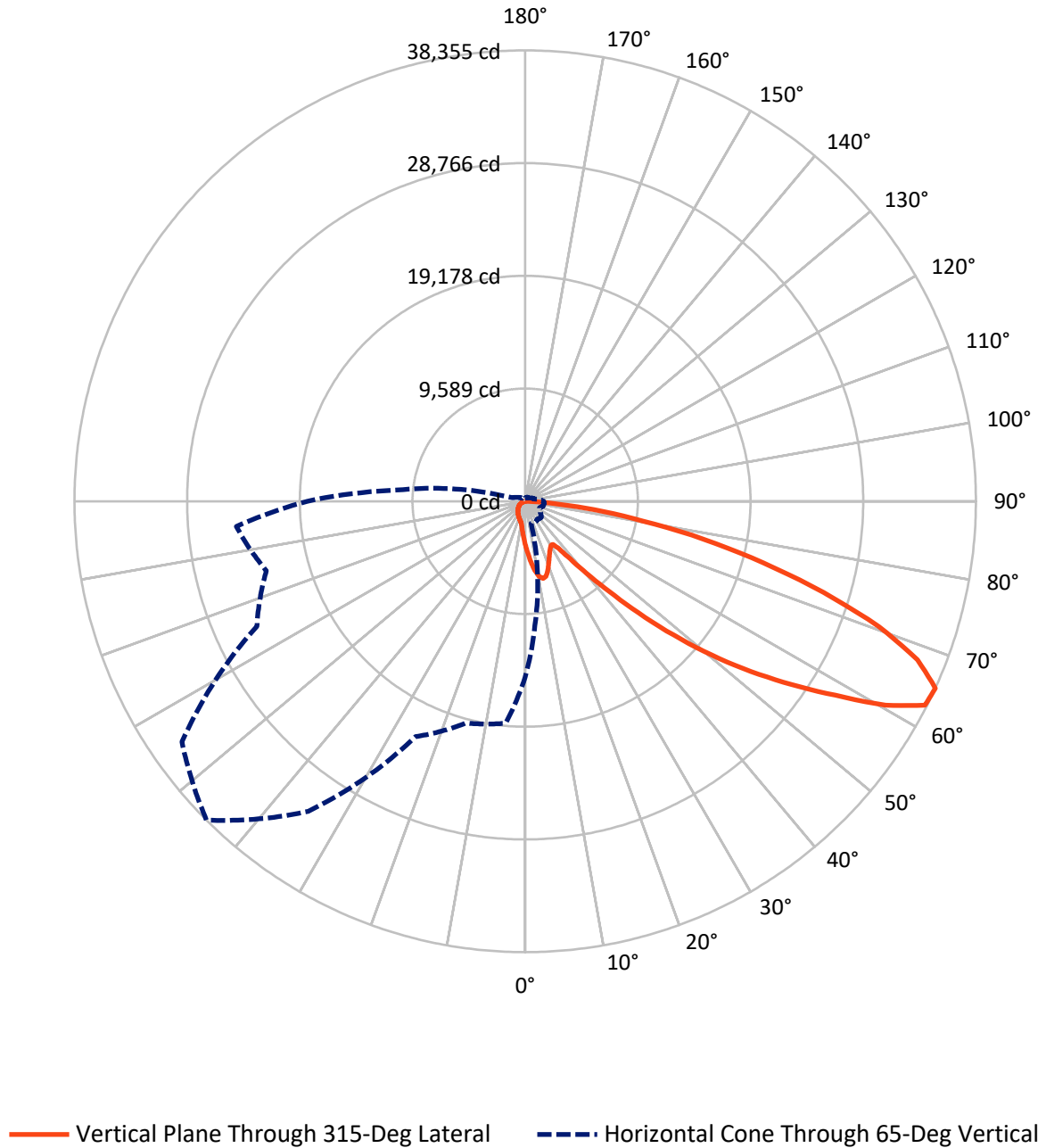
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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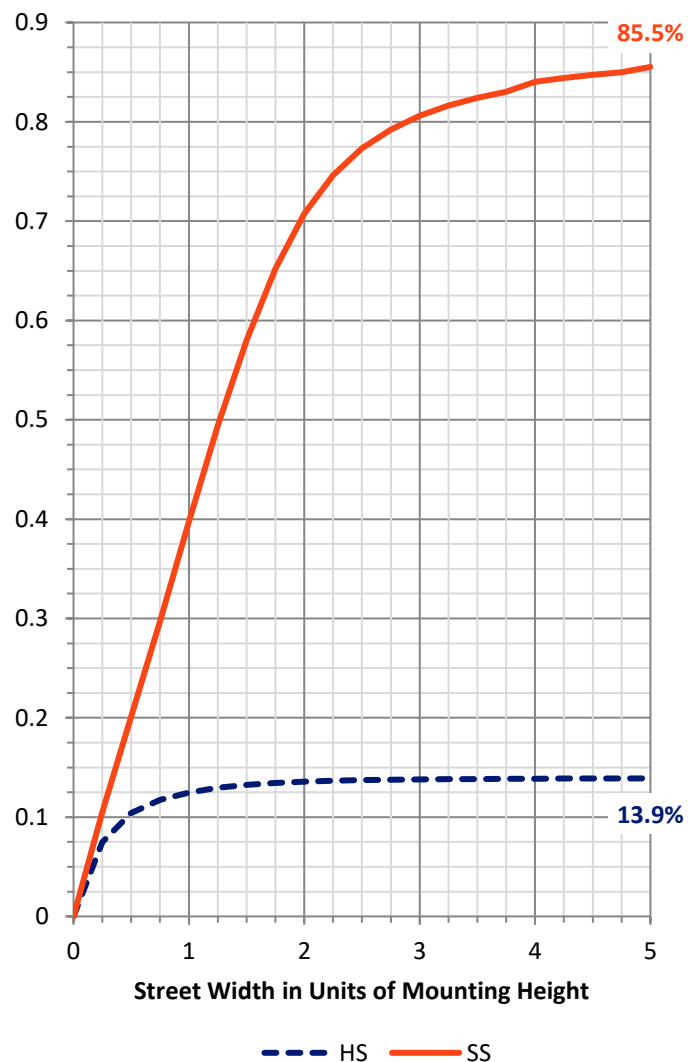
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3821.9	0.0	3821.9
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	23469.1	0.0	23469.1
	% Fixture	86.0	0.0	86.0
Total	Lumens	27291.0	0.0	27291.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	372.0	1.4
10°-20°	1115.3	4.1
20°-30°	1643.1	6.0
30°-40°	2110.9	7.7
40°-50°	3413.9	12.5
50°-60°	5986.6	21.9
60°-70°	7490.9	27.4
70°-80°	4377.3	16.0
80°-90°	781.0	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°	27291.0	100.0
0°-180°	27291.0	100.0

Coefficient of Utilization



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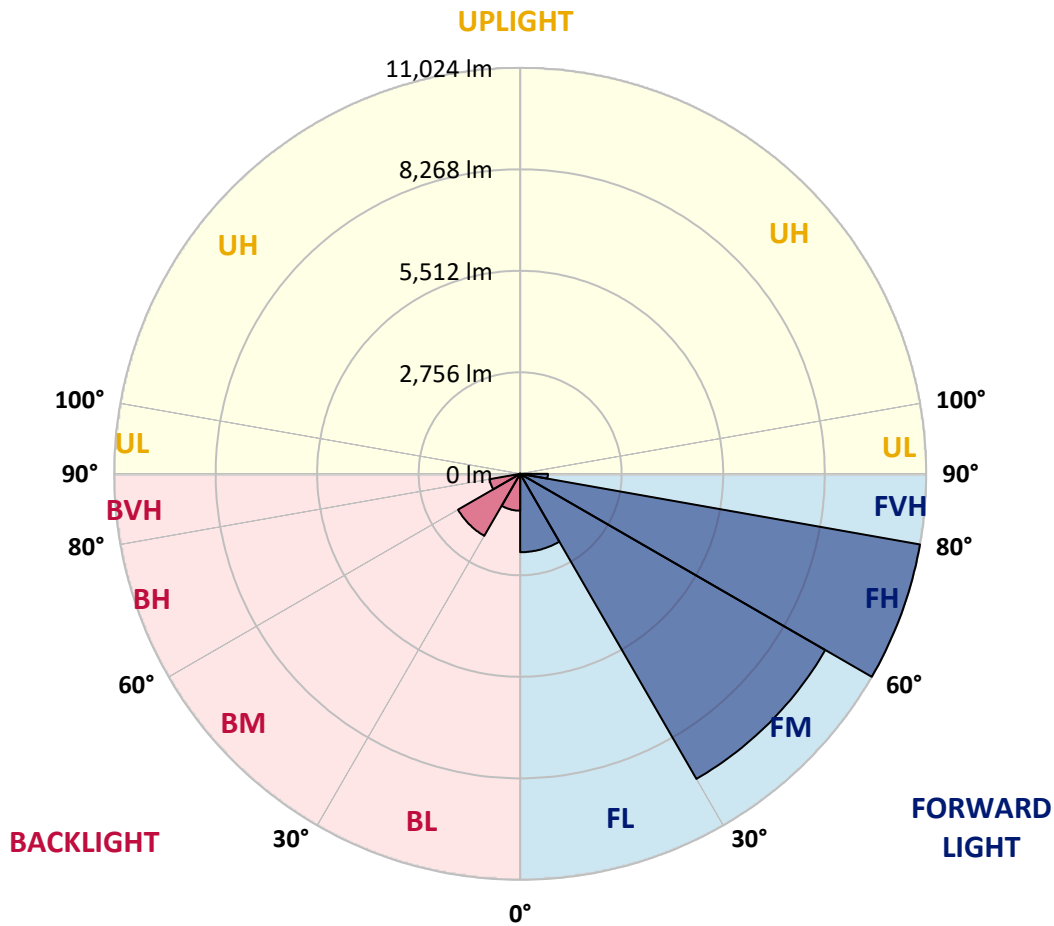
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2128.6	7.8			
FM (30°-60°)	9565.2	35.0			
FH (60°-80°)	11024.3	40.4			G4/12000
FVH (80°-90°)	751.0	2.8			G5
BL (0°-30°)	1001.8	3.7	B3/2500		
BM (30°-60°)	1946.2	7.1	B2/2500		
BH (60°-80°)	843.9	3.1	B2/1000		G2/1000
BVH (80°-90°)	30.0	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°	3778.9	3778.9	3778.9	3778.9	3778.9	3778.9	3778.9	3778.9	3778.9	3778.9
2.5°	4269.6	4196.3	4153.1	4045.9	3938.7	3852.3	3735.7	3658.6	3566.5	3478.1
5°	4758.4	4640.0	4497.1	4301.6	4123.0	3940.6	3763.9	3589.0	3404.8	3235.6
7.5°	5172.1	5001.0	4749.0	4489.6	4262.1	4042.1	3835.3	3604.1	3380.4	3115.3
10°	5487.9	5269.8	4938.9	4598.6	4337.3	4115.5	3914.3	3718.8	3493.2	3173.5
12.5°	5679.7	5446.5	5053.6	4655.0	4356.1	4107.9	3951.9	3865.4	3777.1	3459.3
15°	5820.7	5568.8	5134.5	4694.5	4312.9	4008.3	3893.6	3980.1	4081.6	3878.6
17.5°	5967.3	5702.2	5239.7	4711.4	4196.3	3814.7	3765.8	3989.5	4224.5	4215.1
20°	6106.5	5843.2	5331.9	4700.2	4008.3	3579.6	3622.9	3908.7	4181.3	4295.9
22.5°	6266.3	5988.0	5420.2	4656.9	3763.9	3359.7	3495.0	3780.8	4019.6	4154.9
25°	6461.8	6170.4	5544.3	4593.0	3500.7	3177.3	3365.3	3632.3	3825.9	3919.9
27.5°	6672.3	6388.5	5709.8	4559.2	3288.2	3047.6	3218.7	3455.6	3628.5	3694.3
30°	6933.7	6642.3	5905.3	4521.6	3149.1	2972.4	3066.4	3250.6	3419.8	3485.6
32.5°	7219.4	6924.3	6093.3	4431.3	3064.5	2916.0	2917.9	3034.4	3188.6	3267.6
35°	7576.7	7262.7	6294.5	4233.9	2996.8	2850.2	2773.1	2829.5	2957.3	3051.3
37.5°	8086.2	7706.4	6540.7	3951.9	2897.2	2748.7	2620.8	2634.0	2731.7	2835.1
40°	8789.3	8302.4	6830.3	3658.6	2754.3	2605.8	2453.5	2447.8	2519.3	2620.8
42.5°	9740.6	9090.1	7178.1	3378.5	2617.1	2432.8	2276.8	2267.4	2323.8	2412.1
45°	10996.5	10097.8	7604.9	3137.8	2509.9	2263.6	2109.4	2105.7	2152.7	2229.8
47.5°	12604.0	11498.5	8031.6	2974.3	2453.5	2130.1	1972.2	1979.7	2021.1	2090.6
50°	14685.2	13324.0	8161.4	2891.5	2453.5	2058.7	1850.0	1887.6	1921.4	1974.1
52.5°	17180.0	15076.2	7732.7	2816.3	2468.5	2068.1	1746.6	1827.4	1851.9	1897.0
55°	19492.5	15935.4	6647.9	2712.9	2472.3	2126.4	1658.2	1778.5	1823.7	1840.6
57.5°	20834.9	15640.3	5375.1	2538.1	2457.2	2165.8	1601.8	1718.4	1804.9	1816.1
60°	20579.2	14604.3	3957.5	2404.6	2346.3	2150.8	1584.9	1626.3	1763.5	1780.4
62.5°	18608.9	12867.2	2746.8	2301.2	2101.9	2085.0	1579.3	1481.5	1673.3	1714.6
65°	14957.8	10129.8	1940.2	1981.6	1842.5	1942.1	1549.2	1331.1	1564.2	1620.6
67.5°	10851.7	6854.7	1400.6	1605.6	1669.5	1710.9	1481.5	1222.0	1440.1	1515.3
70°	6963.8	3701.8	983.3	1060.4	1406.3	1453.3	1364.9	1124.3	1314.2	1400.6
72.5°	4950.2	2186.5	706.9	742.6	1129.9	1210.8	1201.4	1015.2	1167.5	1272.8
75°	3416.1	1205.1	477.5	530.2	819.7	983.3	926.9	872.4	988.9	1096.1
77.5°	2141.4	539.6	285.8	368.5	537.7	772.7	635.5	674.9	770.8	870.5
80°	1192.0	208.7	159.8	244.4	293.3	562.1	351.6	434.3	567.8	639.2
82.5°	259.4	26.3	71.4	105.3	114.7	327.1	186.1	251.9	357.2	351.6
85°	0.0	0.0	13.2	15.0	7.5	141.0	67.7	82.7	116.6	109.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8
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°
3778.9	0°	3778.9	3778.9	3778.9	3778.9	3778.9	3778.9	3778.9	3778.9	3778.9	3778.9
3399.2	2.5°	3384.1	3292.0	3224.3	3190.5	3162.3	3188.6	3203.6	3203.6	3267.6	3305.2
3132.2	5°	3066.4	2900.9	2775.0	2690.4	2639.6	2656.5	2675.3	2696.0	2776.9	2831.4
2974.3	7.5°	2846.4	2592.6	2400.8	2282.4	2220.4	2229.8	2242.9	2259.8	2338.8	2393.3
2996.8	10°	2805.1	2440.3	2169.6	2013.5	1938.3	1925.2	1917.7	1912.0	1959.0	2000.4
3252.5	12.5°	2974.3	2447.8	2070.0	1880.1	1787.9	1748.5	1703.3	1667.6	1675.1	1701.5
3639.8	15°	3277.0	2543.7	2038.0	1810.5	1695.8	1630.0	1577.4	1534.1	1524.7	1534.1
3978.2	17.5°	3622.9	2673.5	2034.2	1750.3	1607.5	1539.8	1496.5	1457.1	1443.9	1445.8
4168.1	20°	3852.3	2776.9	2022.9	1682.7	1522.9	1462.7	1425.1	1385.6	1372.4	1376.2
4115.5	22.5°	3874.8	2831.4	2006.0	1607.5	1438.2	1387.5	1349.9	1314.2	1312.3	1312.3
3918.1	25°	3752.6	2831.4	1970.3	1539.8	1357.4	1312.3	1278.4	1235.2	1242.7	1246.5
3694.3	27.5°	3562.7	2763.7	1902.6	1485.3	1287.8	1240.8	1207.0	1167.5	1176.9	1182.6
3485.6	30°	3374.7	2677.2	1821.8	1423.2	1222.0	1167.5	1143.1	1109.2	1113.0	1120.5
3278.8	32.5°	3199.9	2585.1	1725.9	1372.4	1156.2	1101.7	1082.9	1045.3	1051.0	1058.5
3075.8	35°	3026.9	2483.6	1613.1	1312.3	1096.1	1041.6	1026.5	983.3	987.0	998.3
2872.7	37.5°	2840.8	2376.4	1521.0	1252.1	1037.8	981.4	966.4	921.2	925.0	938.2
2662.2	40°	2645.3	2271.1	1430.7	1188.2	975.8	919.4	906.2	857.3	861.1	876.1
2455.4	42.5°	2447.8	2156.4	1361.2	1105.5	911.8	851.7	838.5	793.4	799.0	815.9
2274.9	45°	2265.5	2019.2	1316.0	1013.4	851.7	784.0	770.8	729.5	740.7	759.5
2122.6	47.5°	2109.4	1878.2	1297.2	936.3	787.7	714.4	703.1	669.3	688.1	708.8
1992.9	50°	1975.9	1742.8	1272.8	857.3	727.6	654.3	643.0	620.4	644.9	665.5
1904.5	52.5°	1880.1	1588.7	1220.2	785.9	674.9	603.5	599.7	588.5	611.0	629.8
1838.7	55°	1797.3	1428.8	1135.6	723.8	627.9	560.3	564.0	558.4	577.2	592.2
1799.2	57.5°	1722.1	1289.7	1028.4	674.9	577.2	522.7	533.9	526.4	535.8	545.2
1757.9	60°	1631.9	1148.7	900.6	620.4	517.0	485.1	498.2	477.5	475.7	479.4
1682.7	62.5°	1498.4	958.8	767.1	552.7	464.4	443.7	449.3	409.9	379.8	379.8
1571.7	65°	1312.3	770.8	643.0	477.5	404.2	387.3	383.5	327.1	285.8	282.0
1451.4	67.5°	1096.1	633.6	533.9	402.3	336.5	325.3	329.0	287.6	246.3	242.5
1331.1	70°	893.0	524.5	430.5	321.5	259.4	270.7	287.6	246.3	206.8	201.2
1190.1	72.5°	725.7	417.4	336.5	246.3	191.8	223.7	244.4	201.2	163.6	159.8
1015.2	75°	560.3	306.5	240.6	167.3	139.1	173.0	191.8	146.6	116.6	110.9
785.9	77.5°	374.1	189.9	135.4	105.3	82.7	118.4	127.8	77.1	67.7	65.8
571.5	80°	227.5	88.4	58.3	50.8	28.2	43.2	50.8	32.0	35.7	37.6
304.6	82.5°	114.7	24.4	9.4	1.9	0.0	0.0	15.0	7.5	15.0	18.8
82.7	85°	9.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	9.4
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°
3778.9	0°	3778.9	3778.9	3778.9	3778.9	3778.9	3778.9	3778.9	3778.9	3778.9	3778.9
3320.2	2.5°	3425.5	3504.4	3579.6	3700.0	3824.1	3946.3	4070.3	4190.7	4233.9	4265.9
2867.1	5°	3030.7	3179.2	3352.2	3590.9	3846.6	4109.8	4376.8	4621.2	4732.1	4807.3
2440.3	7.5°	2622.7	2816.3	3064.5	3423.6	3824.1	4243.3	4662.6	5048.0	5226.6	5371.3
2038.0	10°	2218.5	2429.0	2743.0	3152.9	3694.3	4295.9	4875.0	5405.2	5636.4	5818.8
1748.5	12.5°	1863.1	2060.6	2389.6	2842.7	3491.3	4254.6	4997.2	5634.6	5907.2	6112.1
1541.7	15°	1613.1	1752.2	2043.6	2532.4	3250.6	4121.1	5004.7	5743.6	6042.5	6256.9
1455.2	17.5°	1474.0	1521.0	1710.9	2216.6	2983.7	3946.3	4935.2	5781.2	6100.8	6300.1
1378.1	20°	1398.8	1406.3	1458.9	1806.7	2641.5	3782.7	4869.4	5818.8	6155.3	6322.7
1323.6	22.5°	1338.6	1338.6	1351.8	1477.7	2199.7	3587.2	4848.7	5884.6	6230.5	6333.9
1261.5	25°	1284.1	1284.1	1287.8	1321.7	1742.8	3288.2	4835.5	5986.1	6333.9	6362.1
1199.5	27.5°	1227.7	1229.6	1229.6	1248.4	1404.4	2882.1	4779.1	6117.7	6458.0	6399.7
1139.3	30°	1171.3	1175.0	1175.0	1188.2	1242.7	2406.5	4668.2	6275.7	6619.7	6448.6
1079.2	32.5°	1114.9	1118.6	1118.6	1129.9	1169.4	1921.4	4529.1	6420.4	6783.3	6469.3
1020.9	35°	1056.6	1062.2	1058.5	1073.5	1114.9	1528.5	4352.4	6565.2	6960.0	6535.1
964.5	37.5°	998.3	1002.1	1000.2	1015.2	1062.2	1319.8	4147.4	6674.2	7200.6	6681.8
904.3	40°	940.0	938.2	938.2	955.1	1005.8	1259.6	3889.9	6847.2	7546.6	6939.3
844.1	42.5°	879.9	879.9	876.1	894.9	957.0	1214.5	3643.6	7157.4	8050.4	7349.2
787.7	45°	825.3	823.5	815.9	832.9	910.0	1135.6	3557.1	7736.5	8794.9	8012.8
731.3	47.5°	772.7	770.8	752.0	767.1	853.5	1064.1	3880.5	8684.0	9827.1	8988.6
686.2	50°	725.7	727.6	691.9	705.0	797.1	1009.6	4581.7	9913.6	11197.7	10302.8
648.6	52.5°	682.5	682.5	635.5	643.0	727.6	960.7	5249.1	11246.5	13006.3	12135.8
609.1	55°	639.2	635.5	582.8	586.6	658.0	891.2	5348.8	12547.6	15472.9	14893.9
565.9	57.5°	590.3	582.8	533.9	533.9	594.1	840.4	4636.2	13547.7	18533.7	18947.3
485.1	60°	530.2	524.5	492.6	483.2	543.3	885.5	3271.3	13664.3	20507.7	24337.4
385.4	62.5°	453.1	460.6	443.7	430.5	494.5	919.4	1938.3	12726.2	20030.2	26052.1
298.9	65°	357.2	387.3	383.5	374.1	543.3	774.6	1145.0	10925.1	18565.6	24668.3
261.3	67.5°	304.6	325.3	319.6	319.6	569.7	588.5	720.1	8535.5	16550.2	23027.0
218.1	70°	259.4	280.1	259.4	259.4	430.5	357.2	498.2	5959.8	14375.0	21210.9
174.8	72.5°	214.3	235.0	212.4	197.4	344.1	267.0	364.7	3724.4	12310.7	19319.5
124.1	75°	163.6	188.0	171.1	152.3	227.5	199.3	276.4	2164.0	10199.4	16529.5
75.2	77.5°	103.4	135.4	127.8	107.2	167.3	144.8	199.3	1287.8	7870.0	12916.0
45.1	80°	63.9	69.6	71.4	67.7	95.9	97.8	135.4	733.2	5386.4	9001.8
28.2	82.5°	41.4	41.4	32.0	35.7	47.0	56.4	77.1	276.4	3166.0	5480.4
16.9	85°	30.1	26.3	16.9	16.9	22.6	28.2	30.1	84.6	1284.1	2164.0
7.5	87.5°	15.0	13.2	5.6	7.5	11.3	9.4	7.5	3.8	323.4	691.9
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°
3778.9	0°	3778.9	3778.9	3778.9	3778.9	3778.9	3778.9	3778.9	3778.9
4337.3	2.5°	4374.9	4433.2	4437.0	4437.0	4386.2	4384.3	4280.9	4269.6
4976.5	5°	5151.4	5189.0	5198.4	5179.6	5078.1	5002.9	4801.7	4758.4
5628.9	7.5°	5862.0	5937.2	5937.2	5892.1	5726.7	5572.5	5281.1	5172.1
6168.5	10°	6429.8	6516.3	6497.5	6405.4	6196.7	5984.2	5630.8	5487.9
6495.6	12.5°	6706.2	6794.6	6745.7	6640.4	6437.3	6213.6	5841.4	5679.7
6589.6	15°	6700.6	6676.1	6625.3	6612.2	6514.4	6345.2	5997.4	5820.7
6531.3	17.5°	6461.8	6255.0	6215.5	6347.1	6471.2	6429.8	6132.8	5967.3
6392.2	20°	6083.9	5722.9	5687.2	5939.1	6292.6	6473.1	6258.7	6106.5
6191.1	22.5°	5685.3	5296.1	5213.4	5491.7	6023.7	6486.2	6418.5	6266.3
5969.2	25°	5307.4	4916.4	4833.6	5093.1	5724.8	6463.7	6591.5	6461.8
5756.8	27.5°	4991.6	4613.7	4536.6	4796.0	5437.1	6399.7	6764.5	6672.3
5546.2	30°	4747.2	4397.5	4341.1	4591.1	5189.0	6320.8	6984.4	6933.7
5350.7	32.5°	4604.3	4348.6	4369.3	4574.2	5055.5	6234.3	7195.0	7219.4
5254.8	35°	4745.3	4756.6	4937.1	5021.7	5179.6	6221.1	7480.8	7576.7
5369.5	37.5°	5446.5	5837.6	6211.7	6142.2	5786.8	6373.4	7907.6	8086.2
5869.6	40°	6640.4	7443.2	8050.4	7785.3	6890.4	6839.7	8522.3	8789.3
6757.0	42.5°	8099.3	9460.5	10460.7	9750.0	8313.6	7655.6	9400.3	9740.6
7830.5	45°	9639.1	11947.8	13523.3	12045.6	9830.9	8798.7	10729.5	10996.5
8836.3	47.5°	11261.6	14971.0	17008.9	14591.2	11237.1	10099.7	12541.9	12604.0
9789.5	50°	13036.4	18285.5	20562.3	17134.9	12594.6	11590.6	14756.6	14685.2
10900.6	52.5°	14726.5	21694.1	24040.4	19689.9	13786.5	13440.6	17326.7	17180.0
12419.7	55°	16339.6	25100.7	27539.2	22145.3	14910.8	15884.7	20379.9	19492.5
14610.0	57.5°	18210.3	28163.4	31145.2	24611.9	16482.5	19058.2	23794.1	20834.9
18804.4	60°	20975.9	31643.4	35223.0	27992.3	19471.8	22393.5	25018.0	20579.2
23827.9	62.5°	24506.6	34843.2	38187.9	31305.0	22474.3	23021.4	23215.0	18608.9
22803.3	65°	25192.9	35653.5	38355.2	32190.5	22087.0	19528.2	18952.9	14957.8
20368.6	67.5°	23373.0	34189.0	36016.4	30541.7	19537.6	15091.3	14222.7	10851.7
18770.6	70°	21331.2	31397.1	31940.4	27738.5	17183.8	11099.9	9605.3	6963.8
17676.4	72.5°	19238.7	27672.7	26548.4	24089.3	15102.6	8082.4	6928.0	4950.2
16117.8	75°	16753.3	22775.1	20912.0	20015.2	12504.3	6343.3	5012.3	3416.1
13863.6	77.5°	13416.1	16031.3	15533.1	15514.3	9396.6	4634.4	3344.6	2141.4
10831.1	80°	9464.2	10404.3	10150.5	11684.6	6303.9	3361.6	2013.5	1192.0
7539.1	82.5°	4581.7	5753.0	5905.3	6958.1	3066.4	1977.8	464.4	259.4
2947.9	85°	1793.6	2775.0	2340.7	2641.5	861.1	550.9	11.3	0.0
485.1	87.5°	201.2	321.5	295.2	233.1	105.3	22.6	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)