

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: P946645

Luminaire Tested: **GALN-SB2B-727-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946645
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-SB2B-727-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2700K, 450mA 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: 7972 lumens
Efficiency: N/A
Efficacy: 107.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 73.9
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



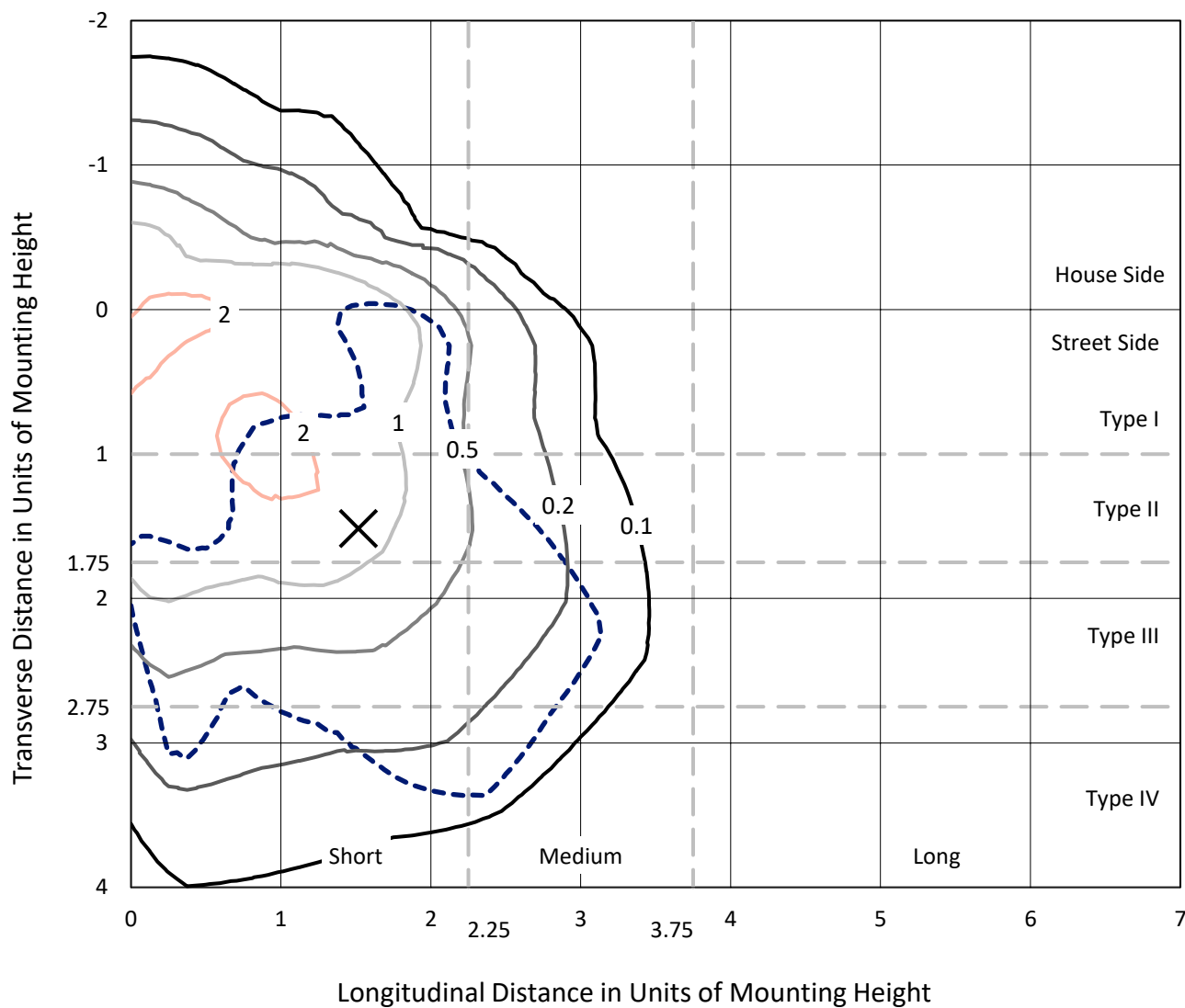
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

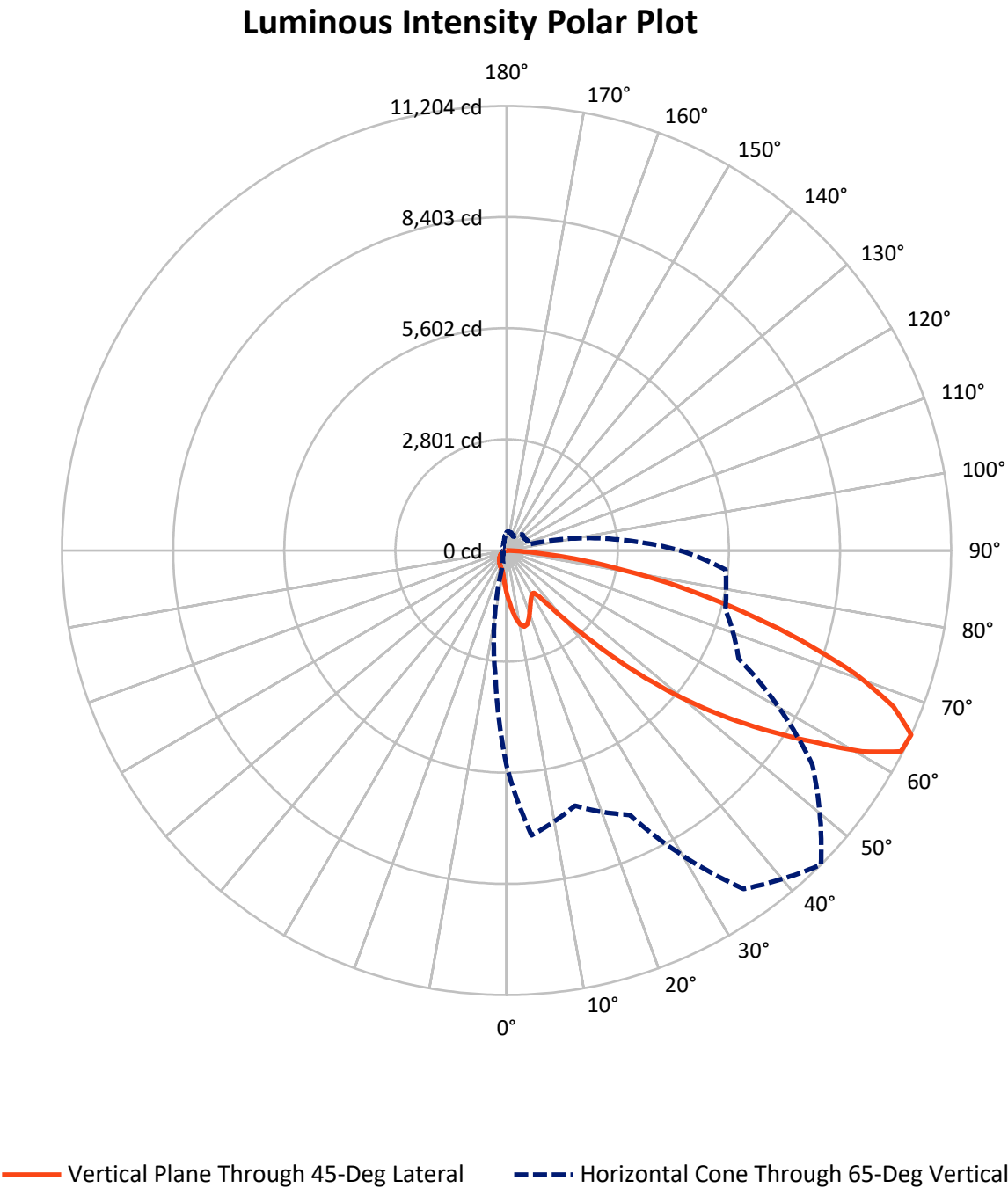
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc

Type IV - Short - N/A

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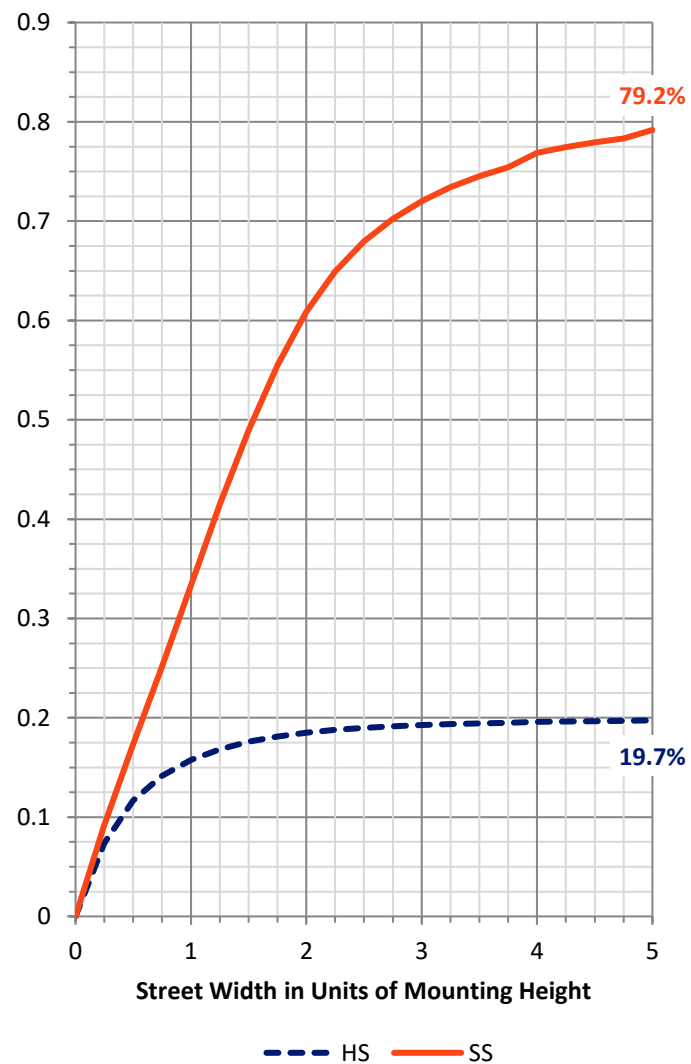
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1584.6	0.0	1584.6
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	6387.4	0.0	6387.4
	% Fixture	80.1	0.0	80.1
Total	Lumens	7972.0	0.0	7972.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.7	1.4
10°-20°	325.8	4.1
20°-30°	480.0	6.0
30°-40°	616.6	7.7
40°-50°	997.2	12.5
50°-60°	1748.8	21.9
60°-70°	2188.2	27.4
70°-80°	1278.7	16.0
80°-90°	228.1	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°	7972.0	100.0
0°-180°	7972.0	100.0

Coefficient of Utilization



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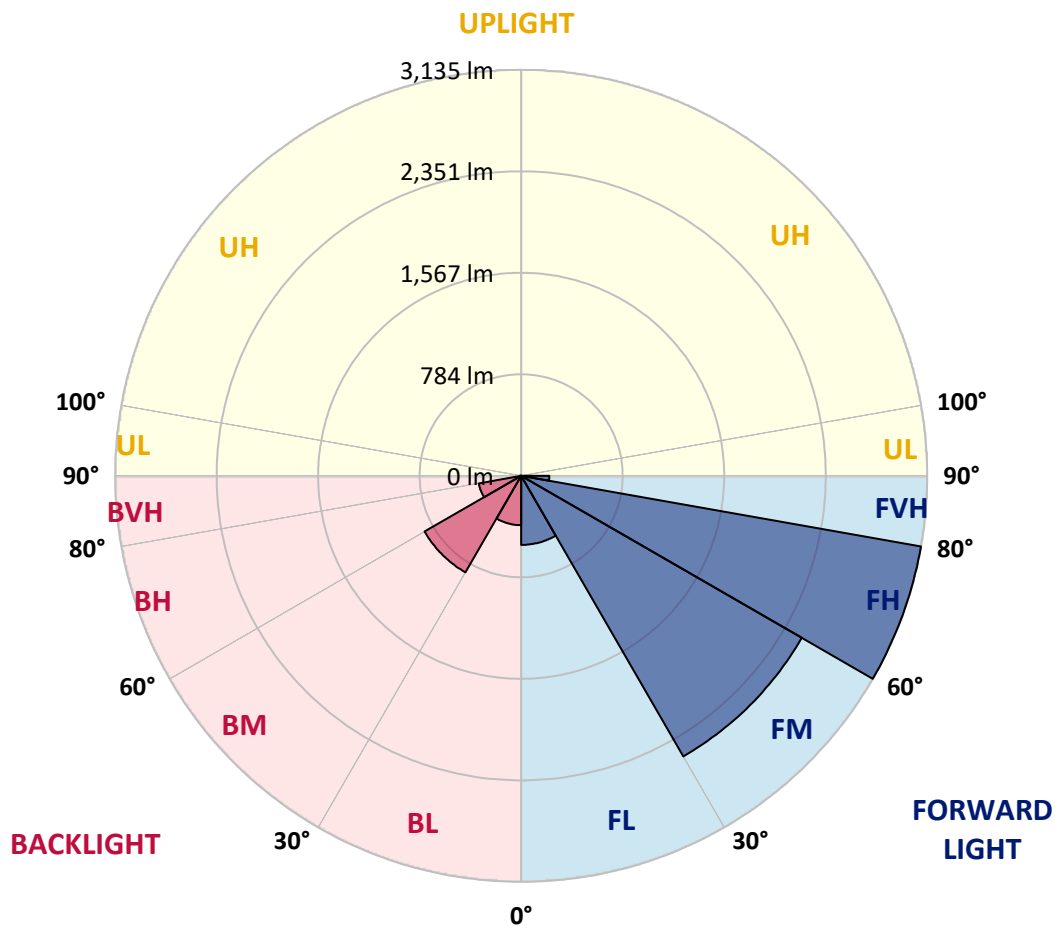
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	533.4	6.7			
FM	(30°-60°)	2501.7	31.4			
FH	(60°-80°)	3134.8	39.3			G2/5000
FVH	(80°-90°)	217.4	2.7			G2/225
BL	(0°-30°)	381.0	4.8	B1/500		
BM	(30°-60°)	860.9	10.8	B1/1000		
BH	(60°-80°)	332.0	4.2	B1/500		G1/500
BVH	(80°-90°)	10.7	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1103.9	1103.9	1103.9	1103.9	1103.9	1103.9	1103.9	1103.9	1103.9	1103.9	1103.9
2.5°	1236.8	1246.1	1267.0	1278.0	1295.0	1296.1	1296.1	1281.3	1280.7	1250.5	1247.2
5°	1382.3	1404.3	1453.7	1504.8	1515.8	1518.5	1513.0	1483.4	1461.4	1402.6	1390.0
7.5°	1526.7	1569.0	1644.3	1712.4	1734.3	1734.3	1721.2	1672.8	1627.8	1542.7	1510.8
10°	1646.5	1699.7	1801.9	1878.2	1903.5	1898.0	1871.1	1810.1	1748.1	1644.8	1603.1
12.5°	1725.5	1785.4	1897.4	1959.0	1984.8	1970.5	1939.7	1880.4	1815.1	1706.3	1659.1
15°	1765.1	1827.7	1924.9	1957.3	1950.2	1935.3	1931.5	1902.9	1853.5	1751.9	1700.3
17.5°	1782.1	1840.3	1907.9	1887.6	1827.1	1815.6	1854.1	1890.3	1878.2	1791.4	1743.1
20°	1798.0	1846.9	1867.2	1777.2	1671.7	1661.3	1734.9	1838.1	1890.9	1828.2	1783.8
22.5°	1820.0	1850.2	1808.5	1660.7	1547.1	1522.9	1604.2	1759.6	1894.7	1874.9	1830.4
25°	1850.2	1858.5	1743.7	1550.4	1436.1	1412.0	1487.7	1672.3	1888.1	1925.5	1887.6
27.5°	1886.5	1869.4	1681.6	1458.1	1347.7	1325.2	1401.0	1588.3	1869.4	1976.0	1949.1
30°	1933.7	1883.7	1620.1	1386.7	1284.5	1268.1	1341.1	1515.8	1846.4	2040.2	2025.4
32.5°	1981.5	1889.8	1563.0	1345.0	1270.3	1276.3	1336.2	1476.8	1821.1	2101.7	2108.9
35°	2033.1	1909.0	1535.0	1386.1	1389.4	1442.2	1466.9	1513.0	1817.3	2185.2	2213.2
37.5°	2103.4	1951.8	1568.5	1591.0	1705.2	1814.5	1794.2	1690.4	1861.7	2309.9	2362.1
40°	2204.4	2027.1	1714.6	1939.7	2174.2	2351.6	2274.2	2012.8	1997.9	2489.5	2567.5
42.5°	2351.6	2146.8	1973.8	2365.9	2763.5	3055.7	2848.1	2428.5	2236.3	2745.9	2845.3
45°	2569.1	2340.6	2287.4	2815.7	3490.1	3950.3	3518.6	2871.7	2570.2	3134.2	3212.2
47.5°	2870.6	2625.7	2581.2	3289.6	4373.2	4968.5	4262.2	3282.5	2950.2	3663.6	3681.8
50°	3271.0	3009.5	2859.6	3808.1	5341.4	6006.5	5005.3	3679.0	3385.7	4310.6	4289.7
52.5°	3799.3	3545.0	3184.2	4301.8	6337.1	7022.5	5751.6	4027.2	3926.1	5061.3	5018.5
55°	4519.8	4350.7	3627.9	4773.0	7332.2	8044.5	6468.9	4355.6	4640.1	5953.2	5694.0
57.5°	5413.9	5534.7	4267.7	5319.4	8226.8	9097.8	7189.4	4814.7	5567.1	6950.5	6086.1
60°	5990.5	7109.2	5493.0	6127.3	9243.4	10289.0	8176.9	5687.9	6541.4	7308.0	6011.4
62.5°	5851.0	7610.1	6960.4	7158.7	10178.1	11155.1	9144.5	6565.0	6724.8	6781.4	5435.9
65°	5423.2	7205.9	6661.1	7359.1	10414.8	11204.0	9403.2	6451.9	5704.4	5536.4	4369.3
67.5°	4834.5	6726.4	5949.9	6827.5	9987.0	10520.8	8921.6	5707.2	4408.3	4154.6	3169.9
70°	4199.1	6195.9	5483.1	6231.1	9171.4	9330.1	8102.7	5019.6	3242.4	2805.8	2034.2
72.5°	3596.1	5643.5	5163.5	5619.8	8083.5	7755.1	7036.7	4411.6	2361.0	2023.8	1446.0
75°	2979.3	4828.5	4708.2	4893.8	6652.9	6108.6	5846.7	3652.6	1853.0	1464.1	997.9
77.5°	2298.9	3772.9	4049.7	3919.0	4682.9	4537.4	4531.9	2744.8	1353.7	977.0	625.5
80°	1573.4	2629.5	3163.9	2764.6	3039.2	2965.1	3413.2	1841.4	981.9	588.2	348.2
82.5°	924.8	1600.9	2202.2	1338.4	1680.5	1725.0	2032.5	895.7	577.7	135.6	75.8
85°	375.1	632.1	861.1	523.9	810.6	683.7	771.6	251.5	160.9	3.3	0.0
87.5°	94.5	202.1	141.7	58.8	93.9	86.2	68.1	30.8	6.6	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°	1103.9	1103.9	1103.9	1103.9	1103.9	1103.9	1103.9	1103.9	1103.9	1103.9	1103.9
2.5°	1225.8	1213.2	1181.9	1150.5	1125.3	1091.2	1068.7	1041.8	1016.0	992.9	988.5
5°	1355.4	1313.7	1256.5	1204.4	1151.1	1099.5	1048.4	994.6	945.2	914.9	895.7
7.5°	1460.8	1387.2	1311.5	1245.0	1180.8	1120.3	1052.8	987.4	910.0	868.8	831.5
10°	1539.4	1442.7	1343.3	1267.0	1202.2	1143.4	1086.3	1020.4	927.0	875.4	819.4
12.5°	1591.0	1476.2	1359.8	1272.5	1200.0	1154.4	1129.1	1103.3	1010.5	950.1	868.8
15°	1626.7	1499.8	1371.3	1259.8	1170.9	1137.4	1162.6	1192.3	1133.0	1063.2	957.2
17.5°	1665.7	1530.6	1376.3	1225.8	1114.3	1100.0	1165.4	1234.0	1231.3	1162.1	1058.3
20°	1706.9	1557.5	1373.0	1170.9	1045.7	1058.3	1141.8	1221.4	1254.9	1217.5	1125.3
22.5°	1749.2	1583.3	1360.3	1099.5	981.4	1020.9	1104.4	1174.2	1213.7	1202.2	1131.9
25°	1802.4	1619.6	1341.7	1022.6	928.1	983.0	1061.0	1117.6	1145.1	1144.5	1096.2
27.5°	1866.1	1667.9	1331.8	960.5	890.2	940.2	1009.4	1059.9	1079.2	1079.2	1040.7
30°	1940.3	1725.0	1320.8	919.9	868.3	895.7	949.5	999.0	1018.2	1018.2	985.8
32.5°	2022.7	1779.9	1294.4	895.2	851.8	852.3	886.4	931.4	954.5	957.8	934.7
35°	2121.5	1838.7	1236.8	875.4	832.6	810.1	826.5	863.9	891.3	898.5	884.2
37.5°	2251.1	1910.6	1154.4	846.3	802.9	765.6	769.4	798.0	828.2	839.2	829.8
40°	2425.2	1995.2	1068.7	804.6	761.2	716.7	715.0	735.9	765.6	777.6	772.7
42.5°	2655.3	2096.8	986.9	764.5	710.6	665.1	662.3	678.8	704.6	717.2	715.0
45°	2949.7	2221.5	916.6	733.2	661.2	616.2	615.1	628.8	651.3	664.5	661.8
47.5°	3358.8	2346.1	868.8	716.7	622.2	576.1	578.3	590.4	610.7	620.0	616.2
50°	3892.1	2384.0	844.7	716.7	601.4	540.4	551.4	561.3	576.6	582.1	577.2
52.5°	4403.9	2258.8	822.7	721.1	604.1	510.2	533.8	540.9	554.1	556.3	549.2
55°	4654.9	1941.9	792.5	722.2	621.1	484.4	519.5	532.7	537.7	537.1	525.0
57.5°	4568.7	1570.1	741.4	717.8	632.7	467.9	502.0	527.2	530.5	525.6	503.1
60°	4266.1	1156.0	702.4	685.4	628.3	463.0	475.0	515.1	520.1	513.5	476.7
62.5°	3758.6	802.4	672.2	614.0	609.0	461.3	432.8	488.8	500.9	491.5	437.7
65°	2959.0	566.8	578.8	538.2	567.3	452.5	388.8	456.9	473.4	459.1	383.3
67.5°	2002.3	409.1	469.0	487.7	499.8	432.8	357.0	420.7	442.6	424.0	320.2
70°	1081.4	287.2	309.7	410.8	424.5	398.7	328.4	383.9	409.1	388.8	260.9
72.5°	638.7	206.5	216.9	330.1	353.7	350.9	296.6	341.0	371.8	347.6	212.0
75°	352.0	139.5	154.9	239.4	287.2	270.7	254.8	288.9	320.2	296.6	163.7
77.5°	157.6	83.5	107.6	157.1	225.7	185.6	197.2	225.2	254.3	229.6	109.3
80°	61.0	46.7	71.4	85.7	164.2	102.7	126.9	165.9	186.7	167.0	66.5
82.5°	7.7	20.9	30.8	33.5	95.6	54.4	73.6	104.3	102.7	89.0	33.5
85°	0.0	3.8	4.4	2.2	41.2	19.8	24.2	34.0	31.9	24.2	2.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	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°	1103.9	1103.9	1103.9	1103.9	1103.9	1103.9	1103.9	1103.9	1103.9	1103.9	1103.9
2.5°	961.6	941.9	932.0	923.7	931.4	935.8	935.8	954.5	965.5	969.9	1000.6
5°	847.4	810.6	785.9	771.1	776.0	781.5	787.5	811.1	827.1	837.5	885.3
7.5°	757.3	701.3	666.7	648.6	651.3	655.2	660.1	683.2	699.1	712.8	766.1
10°	712.8	633.8	588.2	566.2	562.4	560.2	558.5	572.3	584.3	595.3	648.0
12.5°	715.0	604.7	549.2	522.3	510.7	497.6	487.1	489.3	497.0	510.7	544.2
15°	743.1	595.3	528.9	495.4	476.1	460.8	448.1	445.4	448.1	450.3	471.2
17.5°	780.9	594.2	511.3	469.6	449.8	437.2	425.6	421.8	422.3	425.1	430.6
20°	811.1	590.9	491.5	444.8	427.3	416.3	404.8	400.9	402.0	402.6	408.6
22.5°	827.1	586.0	469.6	420.1	405.3	394.3	383.9	383.3	383.3	386.6	391.0
25°	827.1	575.5	449.8	396.5	383.3	373.4	360.8	363.0	364.1	368.5	375.1
27.5°	807.3	555.8	433.9	376.2	362.5	352.6	341.0	343.8	345.4	350.4	358.6
30°	782.0	532.2	415.7	357.0	341.0	333.9	324.0	325.1	327.3	332.8	342.1
32.5°	755.1	504.2	400.9	337.8	321.8	316.3	305.3	307.0	309.2	315.2	325.7
35°	725.5	471.2	383.3	320.2	304.2	299.9	287.2	288.3	291.6	298.2	308.6
37.5°	694.2	444.3	365.8	303.2	286.7	282.3	269.1	270.2	274.0	281.7	291.6
40°	663.4	417.9	347.1	285.0	268.6	264.7	250.4	251.5	255.9	264.2	274.6
42.5°	629.9	397.6	322.9	266.4	248.8	244.9	231.8	233.4	238.3	246.6	257.0
45°	589.8	384.4	296.0	248.8	229.0	225.2	213.1	216.4	221.9	230.1	241.1
47.5°	548.6	378.9	273.5	230.1	208.7	205.4	195.5	201.0	207.0	213.6	225.7
50°	509.1	371.8	250.4	212.5	191.1	187.8	181.2	188.4	194.4	200.5	212.0
52.5°	464.1	356.4	229.6	197.2	176.3	175.2	171.9	178.5	184.0	189.5	199.4
55°	417.4	331.7	211.4	183.4	163.7	164.8	163.1	168.6	173.0	177.9	186.7
57.5°	376.7	300.4	197.2	168.6	152.7	156.0	153.8	156.5	159.3	165.3	172.4
60°	335.6	263.1	181.2	151.0	141.7	145.5	139.5	138.9	140.0	141.7	154.9
62.5°	280.1	224.1	161.5	135.6	129.6	131.3	119.7	110.9	110.9	112.6	132.4
65°	225.2	187.8	139.5	118.1	113.1	112.0	95.6	83.5	82.4	87.3	104.3
67.5°	185.1	156.0	117.5	98.3	95.0	96.1	84.0	71.9	70.8	76.3	89.0
70°	153.2	125.8	93.9	75.8	79.1	84.0	71.9	60.4	58.8	63.7	75.8
72.5°	121.9	98.3	71.9	56.0	65.4	71.4	58.8	47.8	46.7	51.1	62.6
75°	89.5	70.3	48.9	40.6	50.5	56.0	42.8	34.0	32.4	36.2	47.8
77.5°	55.5	39.5	30.8	24.2	34.6	37.3	22.5	19.8	19.2	22.0	30.2
80°	25.8	17.0	14.8	8.2	12.6	14.8	9.3	10.4	11.0	13.2	18.7
82.5°	7.1	2.7	0.5	0.0	0.0	4.4	2.2	4.4	5.5	8.2	12.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	2.7	4.9	8.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	4.4
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°	1103.9	1103.9	1103.9	1103.9	1103.9	1103.9	1103.9	1103.9
2.5°	1023.7	1045.7	1080.8	1117.0	1152.7	1189.0	1224.1	1236.8
5°	928.7	979.2	1048.9	1123.6	1200.5	1278.5	1349.9	1382.3
7.5°	822.7	895.2	1000.1	1117.0	1239.5	1362.0	1474.6	1526.7
10°	709.6	801.3	921.0	1079.2	1254.9	1424.0	1578.9	1646.5
12.5°	601.9	698.0	830.4	1019.8	1242.8	1459.7	1645.9	1725.5
15°	511.8	597.0	739.8	949.5	1203.8	1461.9	1677.8	1765.1
17.5°	444.3	499.8	647.5	871.6	1152.7	1441.6	1688.8	1782.1
20°	410.8	426.2	527.8	771.6	1105.0	1422.4	1699.7	1798.0
22.5°	391.0	394.9	431.7	642.5	1047.8	1416.4	1719.0	1820.0
25°	375.1	376.2	386.1	509.1	960.5	1412.5	1748.6	1850.2
27.5°	359.2	359.2	364.7	410.2	841.9	1396.0	1787.1	1886.5
30°	343.2	343.2	347.1	363.0	703.0	1363.6	1833.2	1933.7
32.5°	326.8	326.8	330.1	341.6	561.3	1323.0	1875.5	1981.5
35°	310.3	309.2	313.6	325.7	446.5	1271.4	1917.8	2033.1
37.5°	292.7	292.2	296.6	310.3	385.5	1211.5	1949.6	2103.4
40°	274.0	274.0	279.0	293.8	368.0	1136.3	2000.1	2204.4
42.5°	257.0	255.9	261.4	279.5	354.8	1064.3	2090.8	2351.6
45°	240.5	238.3	243.3	265.8	331.7	1039.1	2259.9	2569.1
47.5°	225.2	219.7	224.1	249.3	310.8	1133.5	2536.7	2870.6
50°	212.5	202.1	205.9	232.9	294.9	1338.4	2895.9	3271.0
52.5°	199.4	185.6	187.8	212.5	280.6	1533.3	3285.2	3799.3
55°	185.6	170.2	171.3	192.2	260.3	1562.4	3665.3	4519.8
57.5°	170.2	156.0	156.0	173.5	245.5	1354.3	3957.4	5413.9
60°	153.2	143.9	141.1	158.7	258.7	955.6	3991.5	5990.5
62.5°	134.6	129.6	125.8	144.4	268.6	566.2	3717.5	5851.0
65°	113.1	112.0	109.3	158.7	226.3	334.5	3191.3	5423.2
67.5°	95.0	93.4	93.4	166.4	171.9	210.3	2493.3	4834.5
70°	81.8	75.8	75.8	125.8	104.3	145.5	1740.9	4199.1
72.5°	68.6	62.1	57.7	100.5	78.0	106.5	1087.9	3596.1
75°	54.9	50.0	44.5	66.5	58.2	80.7	632.1	2979.3
77.5°	39.5	37.3	31.3	48.9	42.3	58.2	376.2	2298.9
80°	20.3	20.9	19.8	28.0	28.6	39.5	214.2	1573.4
82.5°	12.1	9.3	10.4	13.7	16.5	22.5	80.7	924.8
85°	7.7	4.9	4.9	6.6	8.2	8.8	24.7	375.1
87.5°	3.8	1.6	2.2	3.3	2.7	2.2	1.1	94.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)