

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: P955192

Luminaire Tested: **GALN-SB8B-722-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955192
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-SB8B-722-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 2200K, 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: 28707 lumens
Efficiency: N/A
Efficacy: 98.0 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): 292.8
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



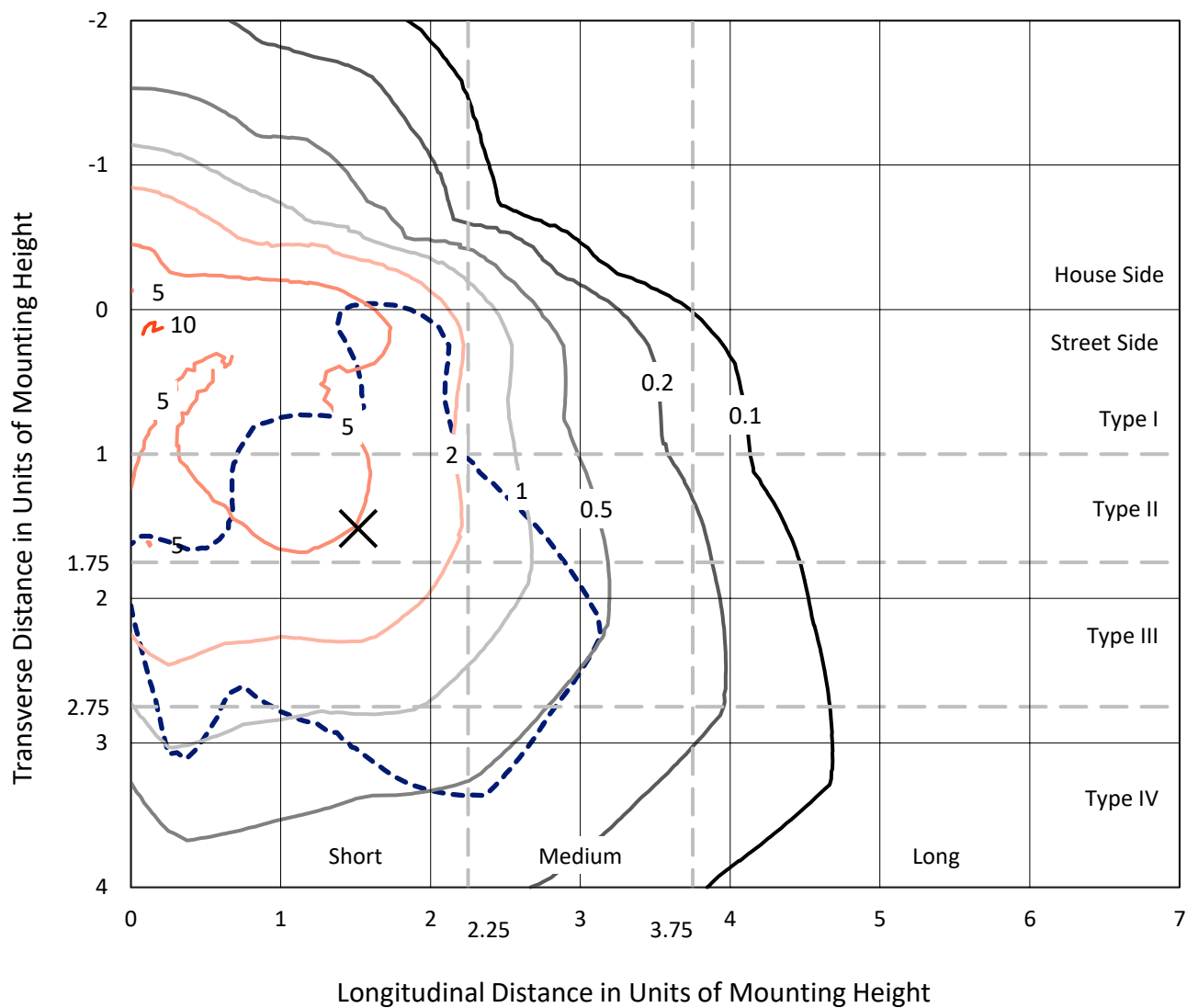
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Iso-Footcandle Lines of Horizontal Illumination

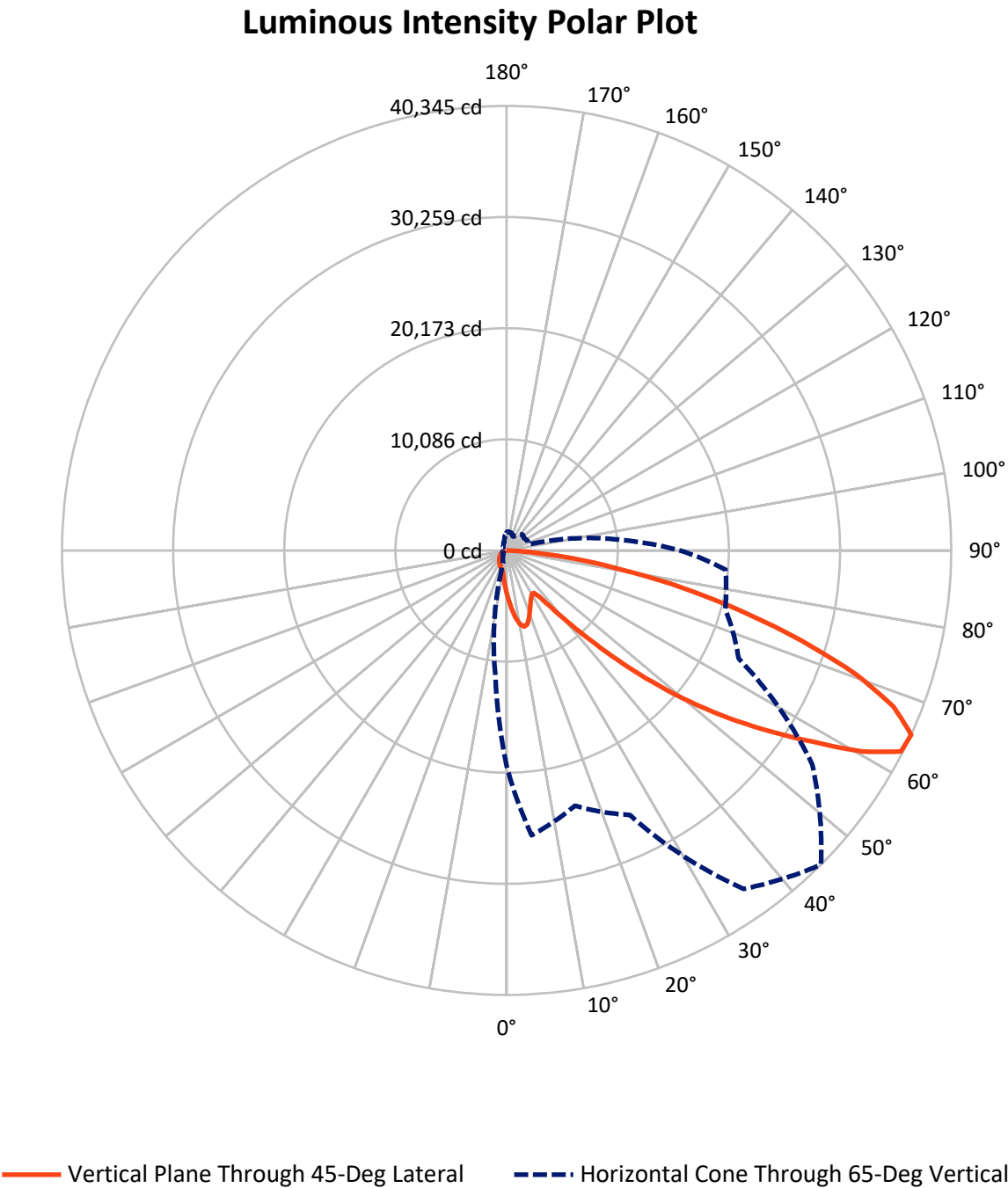
× Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 fc
Type IV - Short - N/A

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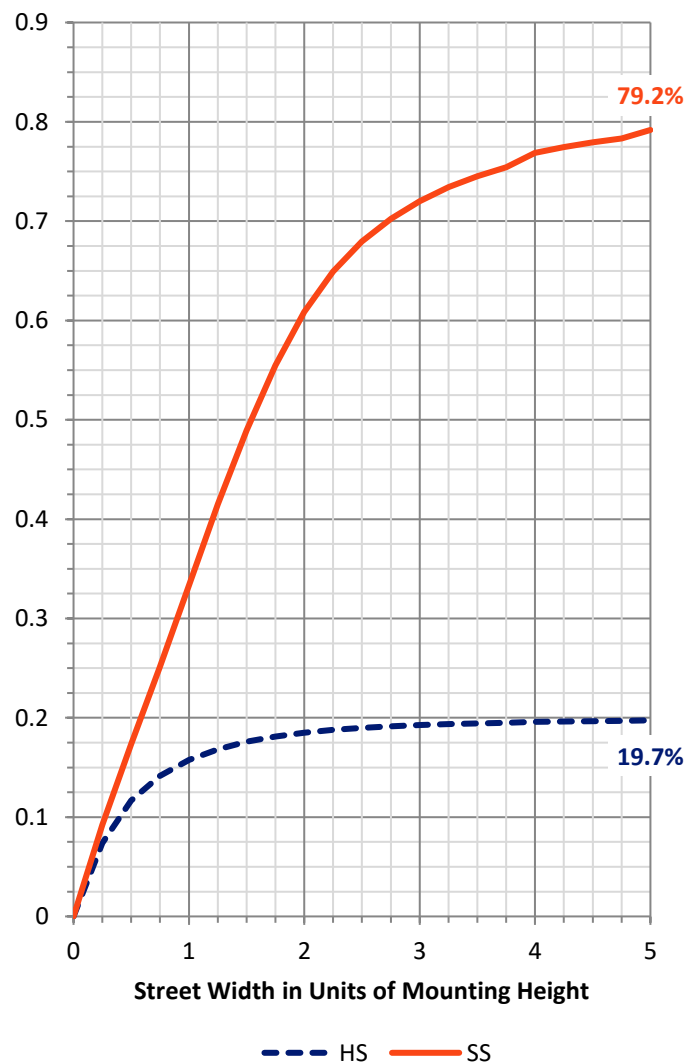
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5706.1	0.0	5706.1
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	23000.9	0.0	23000.9
	% Fixture	80.1	0.0	80.1
Total	Lumens	28707.0	0.0	28707.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	391.4	1.4
10°-20°	1173.2	4.1
20°-30°	1728.3	6.0
30°-40°	2220.4	7.7
40°-50°	3591.0	12.5
50°-60°	6297.2	21.9
60°-70°	7879.6	27.4
70°-80°	4604.4	16.0
80°-90°	821.5	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°	28707.0	100.0
0°-180°	28707.0	100.0

Coefficient of Utilization



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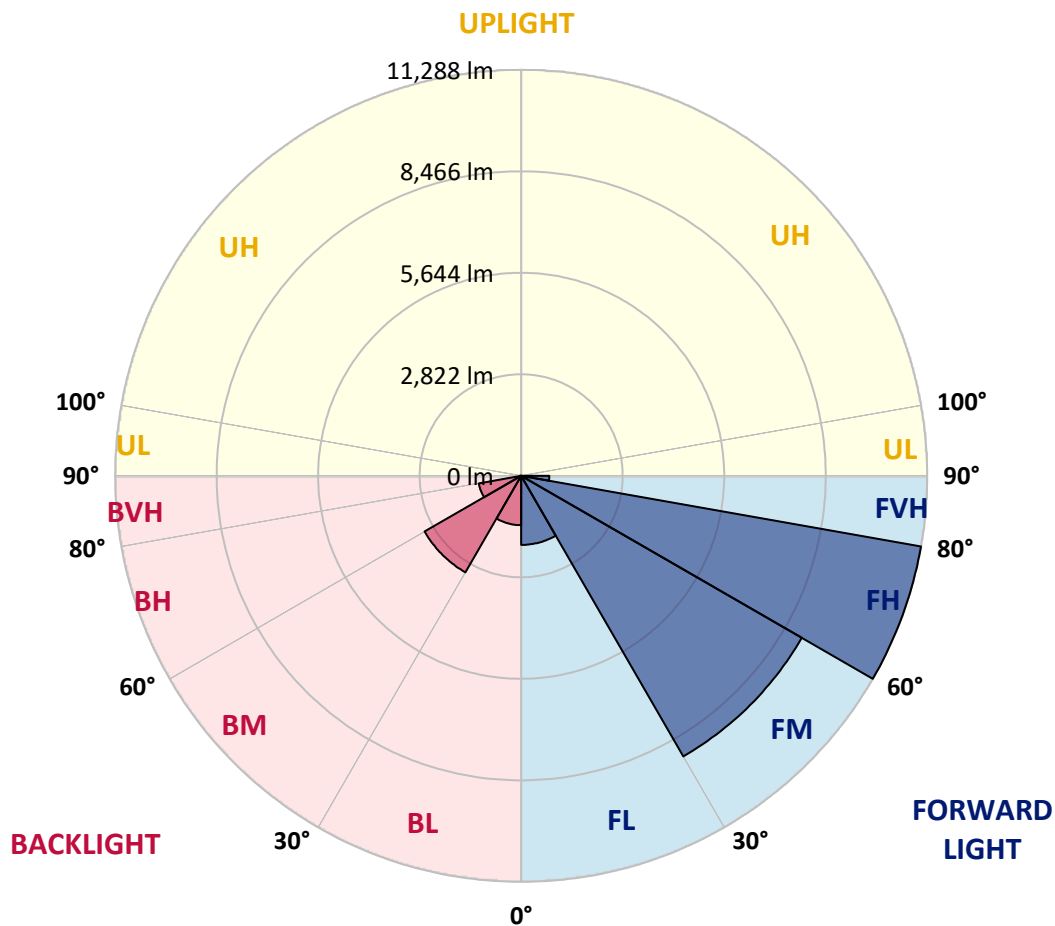
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1920.8	6.7			
FM	(30°-60°)	9008.6	31.4			
FH	(60°-80°)	11288.5	39.3			G4/12000
FVH	(80°-90°)	783.0	2.7			G5
BL	(0°-30°)	1372.0	4.8	B3/2500		
BM	(30°-60°)	3100.1	10.8	B3/5000		
BH	(60°-80°)	1195.5	4.2	B3/2500		G3/2500
BVH	(80°-90°)	38.5	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°	90°
0°	3975.0	3975.0	3975.0	3975.0	3975.0	3975.0	3975.0	3975.0	3975.0	3975.0	3975.0
2.5°	4453.6	4487.2	4562.4	4601.9	4663.2	4667.2	4667.2	4613.8	4611.8	4503.0	4491.2
5°	4977.7	5056.8	5234.7	5418.7	5458.2	5468.1	5448.3	5341.5	5262.4	5050.8	5005.3
7.5°	5497.8	5650.0	5921.0	6166.2	6245.3	6245.3	6197.8	6023.8	5861.6	5555.1	5440.4
10°	5928.9	6120.7	6488.5	6763.4	6854.4	6834.6	6737.7	6518.2	6294.7	5922.9	5772.7
12.5°	6213.7	6429.2	6832.7	7054.1	7147.1	7095.7	6984.9	6771.3	6536.0	6144.4	5974.4
15°	6356.0	6581.5	6931.5	7048.2	7022.5	6969.1	6955.3	6852.4	6674.4	6308.6	6122.7
17.5°	6417.4	6627.0	6870.2	6797.1	6579.5	6538.0	6676.4	6806.9	6763.4	6451.0	6276.9
20°	6474.7	6650.7	6723.9	6399.6	6019.9	5982.3	6247.3	6619.1	6808.9	6583.5	6423.3
22.5°	6553.8	6662.6	6512.3	5980.3	5570.9	5483.9	5776.6	6336.3	6822.8	6751.6	6591.4
25°	6662.6	6692.2	6278.9	5582.8	5171.5	5084.4	5357.4	6021.8	6799.0	6933.5	6797.1
27.5°	6793.1	6731.8	6055.4	5250.6	4853.1	4772.0	5044.9	5719.3	6731.8	7115.4	7018.5
30°	6963.2	6783.2	5834.0	4993.5	4625.6	4566.3	4829.3	5458.2	6648.7	7346.8	7293.4
32.5°	7135.2	6805.0	5628.3	4843.2	4574.2	4596.0	4811.5	5317.8	6557.8	7568.3	7594.0
35°	7321.1	6874.2	5527.4	4991.5	5003.4	5193.2	5282.2	5448.3	6543.9	7868.9	7969.8
37.5°	7574.3	7028.4	5648.1	5729.1	6140.5	6534.0	6460.9	6087.1	6704.1	8317.8	8505.7
40°	7938.1	7299.4	6174.1	6984.9	7829.4	8468.1	8189.3	7247.9	7194.6	8964.5	9245.3
42.5°	8468.1	7730.5	7107.5	8519.6	9951.3	11003.4	10255.9	8745.0	8052.8	9888.1	10246.0
45°	9251.3	8428.6	8236.8	10139.2	12567.7	14225.0	12670.6	10340.9	9255.2	11286.2	11567.1
47.5°	10337.0	9455.0	9294.8	11845.9	15747.7	17891.5	15348.2	11820.2	10623.7	13192.7	13257.9
50°	11778.7	10837.3	10297.4	13712.8	19234.3	21629.1	18024.0	13248.0	12192.0	15522.3	15447.1
52.5°	13681.1	12765.5	11466.2	15490.6	22819.7	25287.7	20711.5	14501.8	14138.0	18225.7	18071.4
55°	16275.8	15666.6	13064.1	17187.4	26403.1	28968.1	23294.3	15684.4	16708.8	21437.3	20503.9
57.5°	19495.3	19930.4	15368.0	19155.2	29624.6	32761.1	25888.9	17337.7	20047.1	25028.7	21915.9
60°	21571.8	25600.2	19780.1	22064.2	33285.2	37050.6	29444.7	20482.1	23555.3	26316.1	21646.9
62.5°	21069.5	27403.8	25064.3	25778.2	36651.1	40169.3	32929.2	23640.4	24215.9	24419.6	19574.4
65°	19528.9	25948.3	23986.5	26500.0	37503.4	40345.3	33860.7	23233.0	20541.5	19936.3	15733.9
67.5°	17408.9	24221.8	21425.5	24585.7	35962.9	37885.1	32126.3	20551.3	15874.3	14960.6	11414.8
70°	15120.8	22311.4	19744.5	22438.0	33026.1	33597.7	29177.7	18075.4	11675.8	10103.6	7325.1
72.5°	12949.4	20321.9	18593.5	20236.9	29108.5	27925.9	25339.1	15886.2	8501.8	7287.5	5207.1
75°	10728.5	17387.2	16954.1	17622.5	23956.8	21997.0	21053.7	13153.1	6672.5	5272.3	3593.3
77.5°	8278.3	13586.2	14582.9	14112.2	16863.1	16339.0	16319.3	9884.1	4874.8	3518.2	2252.5
80°	5665.9	9468.8	11393.0	9955.3	10944.1	10677.1	12290.9	6630.9	3536.0	2118.0	1253.8
82.5°	3330.3	5764.7	7930.2	4819.4	6051.5	6211.7	7319.1	3225.5	2080.4	488.5	272.9
85°	1350.7	2276.2	3100.9	1886.6	2919.0	2462.1	2778.5	905.7	579.4	11.9	0.0
87.5°	340.1	727.8	510.2	211.6	338.2	310.5	245.2	110.7	23.7	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°	3975.0	3975.0	3975.0	3975.0	3975.0	3975.0	3975.0	3975.0	3975.0	3975.0	3975.0
2.5°	4414.0	4368.5	4255.8	4143.1	4052.1	3929.5	3848.4	3751.5	3658.6	3575.5	3559.7
5°	4880.7	4730.4	4524.8	4336.9	4145.1	3959.2	3775.3	3581.5	3403.5	3294.7	3225.5
7.5°	5260.4	4995.4	4722.5	4483.2	4251.9	4034.3	3791.1	3555.7	3276.9	3128.6	2994.1
10°	5543.2	5195.2	4837.2	4562.4	4329.0	4117.4	3911.7	3674.4	3338.2	3152.3	2950.6
12.5°	5729.1	5315.8	4896.6	4582.1	4321.1	4156.9	4066.0	3973.0	3638.8	3421.3	3128.6
15°	5857.7	5400.9	4938.1	4536.6	4216.3	4095.6	4186.6	4293.4	4079.8	3828.7	3447.0
17.5°	5998.1	5511.6	4955.9	4414.0	4012.6	3961.2	4196.5	4443.7	4433.8	4184.6	3810.9
20°	6146.4	5608.5	4944.0	4216.3	3765.4	3810.9	4111.5	4398.2	4518.8	4384.4	4052.1
22.5°	6298.7	5701.5	4898.5	3959.2	3534.0	3676.4	3977.0	4228.1	4370.5	4329.0	4075.9
25°	6490.5	5832.0	4831.3	3682.3	3342.2	3539.9	3820.7	4024.4	4123.3	4121.3	3947.3
27.5°	6719.9	6006.0	4795.7	3458.8	3205.7	3385.7	3634.9	3816.8	3886.0	3886.0	3747.6
30°	6986.9	6211.7	4756.2	3312.5	3126.6	3225.5	3419.3	3597.3	3666.5	3666.5	3549.8
32.5°	7283.5	6409.4	4661.2	3223.5	3067.3	3069.3	3191.9	3354.0	3437.1	3449.0	3365.9
35°	7639.5	6621.0	4453.6	3152.3	2998.1	2917.0	2976.3	3110.8	3209.7	3235.4	3184.0
37.5°	8106.2	6880.1	4156.9	3047.5	2891.3	2756.8	2770.6	2873.5	2982.2	3021.8	2988.2
40°	8733.1	7184.7	3848.4	2897.2	2741.0	2580.8	2574.9	2650.0	2756.8	2800.3	2782.5
42.5°	9561.8	7550.5	3553.8	2752.8	2559.0	2394.9	2385.0	2444.3	2537.3	2582.8	2574.9
45°	10621.8	7999.4	3300.6	2640.1	2381.0	2218.9	2214.9	2264.4	2345.4	2392.9	2383.0
47.5°	12095.1	8448.4	3128.6	2580.8	2240.6	2074.5	2082.4	2125.9	2199.1	2232.7	2218.9
50°	14015.3	8584.8	3041.6	2580.8	2165.5	1946.0	1985.5	2021.1	2076.5	2096.3	2078.5
52.5°	15858.5	8133.9	2962.5	2596.6	2175.4	1837.2	1922.2	1947.9	1995.4	2003.3	1977.6
55°	16762.2	6992.8	2853.7	2600.6	2236.7	1744.3	1870.8	1918.3	1936.1	1934.1	1890.6
57.5°	16451.8	5654.0	2669.8	2584.7	2278.2	1684.9	1807.5	1898.5	1910.4	1892.6	1811.5
60°	15362.1	4162.9	2529.4	2468.1	2262.4	1667.1	1710.6	1855.0	1872.8	1849.1	1716.6
62.5°	13534.8	2889.3	2420.6	2211.0	2193.2	1661.2	1558.4	1760.1	1803.6	1770.0	1576.2
65°	10655.4	2040.9	2084.4	1938.1	2042.9	1629.6	1400.1	1645.4	1704.7	1653.3	1380.4
67.5°	7210.4	1473.3	1688.9	1756.1	1799.6	1558.4	1285.4	1514.9	1594.0	1526.7	1152.9
70°	3893.9	1034.3	1115.4	1479.3	1528.7	1435.7	1182.6	1382.4	1473.3	1400.1	939.4
72.5°	2300.0	743.6	781.2	1188.5	1273.6	1263.7	1067.9	1228.1	1338.8	1251.8	763.4
75°	1267.6	502.3	557.7	862.2	1034.3	975.0	917.6	1040.2	1152.9	1067.9	589.3
77.5°	567.6	300.6	387.6	565.6	812.8	668.4	710.0	810.8	915.6	826.6	393.5
80°	219.5	168.1	257.1	308.5	591.3	369.8	456.8	597.2	672.4	601.2	239.3
82.5°	27.7	75.1	110.7	120.6	344.1	195.8	265.0	375.7	369.8	320.4	120.6
85°	0.0	13.8	15.8	7.9	148.3	71.2	87.0	122.6	114.7	87.0	9.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	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	0.0

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CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	3975.0	3975.0	3975.0	3975.0	3975.0	3975.0	3975.0	3975.0	3975.0	3975.0	3975.0
2.5°	3462.8	3391.6	3356.0	3326.3	3354.0	3369.9	3369.9	3437.1	3476.6	3492.5	3603.2
5°	3051.5	2919.0	2830.0	2776.6	2794.4	2814.1	2835.9	2920.9	2978.3	3015.9	3187.9
7.5°	2727.1	2525.4	2400.8	2335.6	2345.4	2359.3	2377.1	2460.1	2517.5	2566.9	2758.8
10°	2566.9	2282.2	2118.0	2038.9	2025.1	2017.2	2011.2	2060.7	2104.2	2143.7	2333.6
12.5°	2574.9	2177.4	1977.6	1880.7	1839.2	1791.7	1754.1	1762.1	1789.7	1839.2	1959.8
15°	2675.7	2143.7	1904.4	1783.8	1714.6	1659.2	1613.7	1603.8	1613.7	1621.6	1696.8
17.5°	2812.2	2139.8	1841.2	1690.9	1619.7	1574.2	1532.6	1518.8	1520.8	1530.7	1550.4
20°	2920.9	2127.9	1770.0	1601.9	1538.6	1499.0	1457.5	1443.7	1447.6	1449.6	1471.3
22.5°	2978.3	2110.1	1690.9	1512.9	1459.5	1419.9	1382.4	1380.4	1380.4	1392.2	1408.1
25°	2978.3	2072.5	1619.7	1427.8	1380.4	1344.8	1299.3	1307.2	1311.2	1327.0	1350.7
27.5°	2907.1	2001.3	1562.3	1354.7	1305.2	1269.6	1228.1	1238.0	1243.9	1261.7	1291.4
30°	2816.1	1916.3	1497.1	1285.4	1228.1	1202.4	1166.8	1170.7	1178.7	1198.4	1232.1
32.5°	2719.2	1815.4	1443.7	1216.2	1158.9	1139.1	1099.6	1105.5	1113.4	1135.1	1172.7
35°	2612.4	1696.8	1380.4	1152.9	1095.6	1079.8	1034.3	1038.2	1050.1	1073.8	1111.4
37.5°	2499.7	1599.9	1317.1	1091.6	1032.3	1016.5	969.0	973.0	986.8	1014.5	1050.1
40°	2389.0	1505.0	1249.9	1026.4	967.1	953.2	901.8	905.7	921.6	951.2	988.8
42.5°	2268.3	1431.8	1162.8	959.1	895.9	882.0	834.6	840.5	858.3	887.9	925.5
45°	2124.0	1384.3	1065.9	895.9	824.7	810.8	767.3	779.2	799.0	828.6	868.2
47.5°	1975.6	1364.6	984.9	828.6	751.5	739.6	704.0	723.8	745.6	769.3	812.8
50°	1833.2	1338.8	901.8	765.3	688.2	676.3	652.6	678.3	700.1	721.8	763.4
52.5°	1671.1	1283.5	826.6	710.0	634.8	630.9	619.0	642.7	662.5	682.3	717.9
55°	1503.0	1194.5	761.4	660.5	589.3	593.3	587.4	607.1	622.9	640.7	672.4
57.5°	1356.6	1081.8	710.0	607.1	549.8	561.6	553.7	563.6	573.5	595.3	621.0
60°	1208.3	947.3	652.6	543.8	510.2	524.1	502.3	500.3	504.3	510.2	557.7
62.5°	1008.6	806.9	581.4	488.5	466.7	472.6	431.1	399.5	399.5	405.4	476.6
65°	810.8	676.3	502.3	425.2	407.4	403.4	344.1	300.6	296.6	314.4	375.7
67.5°	666.5	561.6	423.2	354.0	342.1	346.1	302.6	259.1	255.1	274.9	320.4
70°	551.8	452.9	338.2	272.9	284.8	302.6	259.1	217.5	211.6	229.4	272.9
72.5°	439.0	354.0	259.1	201.7	235.3	257.1	211.6	172.1	168.1	183.9	225.4
75°	322.4	253.1	176.0	146.3	181.9	201.7	154.3	122.6	116.7	130.5	172.1
77.5°	199.7	142.4	110.7	87.0	124.6	134.5	81.1	71.2	69.2	79.1	108.8
80°	92.9	61.3	53.4	29.7	45.5	53.4	33.6	37.6	39.6	47.5	67.2
82.5°	25.7	9.9	2.0	0.0	0.0	15.8	7.9	15.8	19.8	29.7	43.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	9.9	17.8	31.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.9	15.8
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°	3975.0	3975.0	3975.0	3975.0	3975.0	3975.0	3975.0	3975.0
2.5°	3686.3	3765.4	3891.9	4022.5	4151.0	4281.5	4408.1	4453.6
5°	3344.1	3526.1	3777.2	4046.2	4323.1	4603.9	4861.0	4977.7
7.5°	2962.5	3223.5	3601.2	4022.5	4463.5	4904.5	5309.9	5497.8
10°	2555.1	2885.3	3316.5	3886.0	4518.8	5127.9	5685.6	5928.9
12.5°	2167.5	2513.5	2990.1	3672.4	4475.3	5256.5	5926.9	6213.7
15°	1843.1	2149.7	2663.8	3419.3	4334.9	5264.4	6041.6	6356.0
17.5°	1599.9	1799.6	2331.6	3138.5	4151.0	5191.2	6081.2	6417.4
20°	1479.3	1534.6	1900.5	2778.5	3979.0	5122.0	6120.7	6474.7
22.5°	1408.1	1421.9	1554.4	2313.8	3773.3	5100.3	6189.9	6553.8
25°	1350.7	1354.7	1390.3	1833.2	3458.8	5086.4	6296.7	6662.6
27.5°	1293.4	1293.4	1313.1	1477.3	3031.7	5027.1	6435.2	6793.1
30°	1236.0	1236.0	1249.9	1307.2	2531.3	4910.4	6601.3	6963.2
32.5°	1176.7	1176.7	1188.5	1230.1	2021.1	4764.1	6753.5	7135.2
35°	1117.4	1113.4	1129.2	1172.7	1607.8	4578.2	6905.8	7321.1
37.5°	1054.1	1052.1	1067.9	1117.4	1388.3	4362.6	7020.5	7574.3
40°	986.8	986.8	1004.6	1058.0	1325.0	4091.7	7202.5	7938.1
42.5°	925.5	921.6	941.3	1006.6	1277.5	3832.6	7528.8	8468.1
45°	866.2	858.3	876.1	957.2	1194.5	3741.6	8137.9	9251.3
47.5°	810.8	791.0	806.9	897.8	1119.3	4081.8	9134.6	10337.0
50°	765.3	727.8	741.6	838.5	1062.0	4819.4	10428.0	11778.7
52.5°	717.9	668.4	676.3	765.3	1010.6	5521.5	11830.1	13681.1
55°	668.4	613.1	617.0	692.2	937.4	5626.3	13198.6	16275.8
57.5°	613.1	561.6	561.6	624.9	884.0	4876.8	14250.7	19495.3
60°	551.8	518.1	508.2	571.5	931.5	3441.0	14373.3	21571.8
62.5°	484.5	466.7	452.9	520.1	967.1	2038.9	13386.5	21069.5
65°	407.4	403.4	393.5	571.5	814.8	1204.4	11491.9	19528.9
67.5°	342.1	336.2	336.2	599.2	619.0	757.4	8978.4	17408.9
70°	294.7	272.9	272.9	452.9	375.7	524.1	6269.0	15120.8
72.5°	247.2	223.5	207.6	361.9	280.8	383.7	3917.7	12949.4
75°	197.8	180.0	160.2	239.3	209.6	290.7	2276.2	10728.5
77.5°	142.4	134.5	112.7	176.0	152.3	209.6	1354.7	8278.3
80°	73.2	75.1	71.2	100.9	102.8	142.4	771.3	5665.9
82.5°	43.5	33.6	37.6	49.4	59.3	81.1	290.7	3330.3
85°	27.7	17.8	17.8	23.7	29.7	31.6	89.0	1350.7
87.5°	13.8	5.9	7.9	11.9	9.9	7.9	4.0	340.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)