

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: P950238

Luminaire Tested: **GALN-SB4D-730-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950238
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-SB4D-730-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 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: 31125 lumens
Efficiency: N/A
Efficacy: 106.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 293.6
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

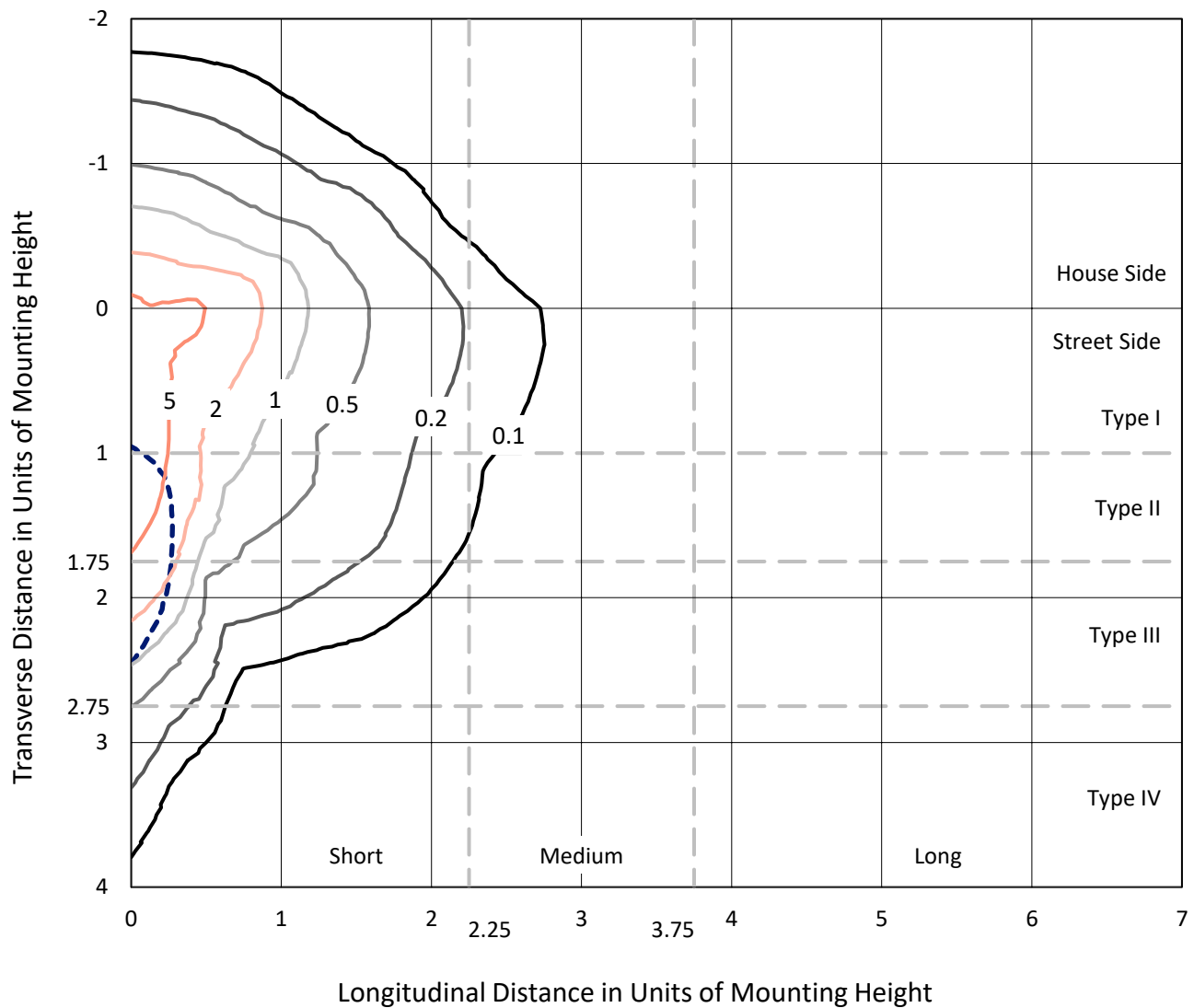


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Iso-Footcandle Lines of Horizontal Illumination

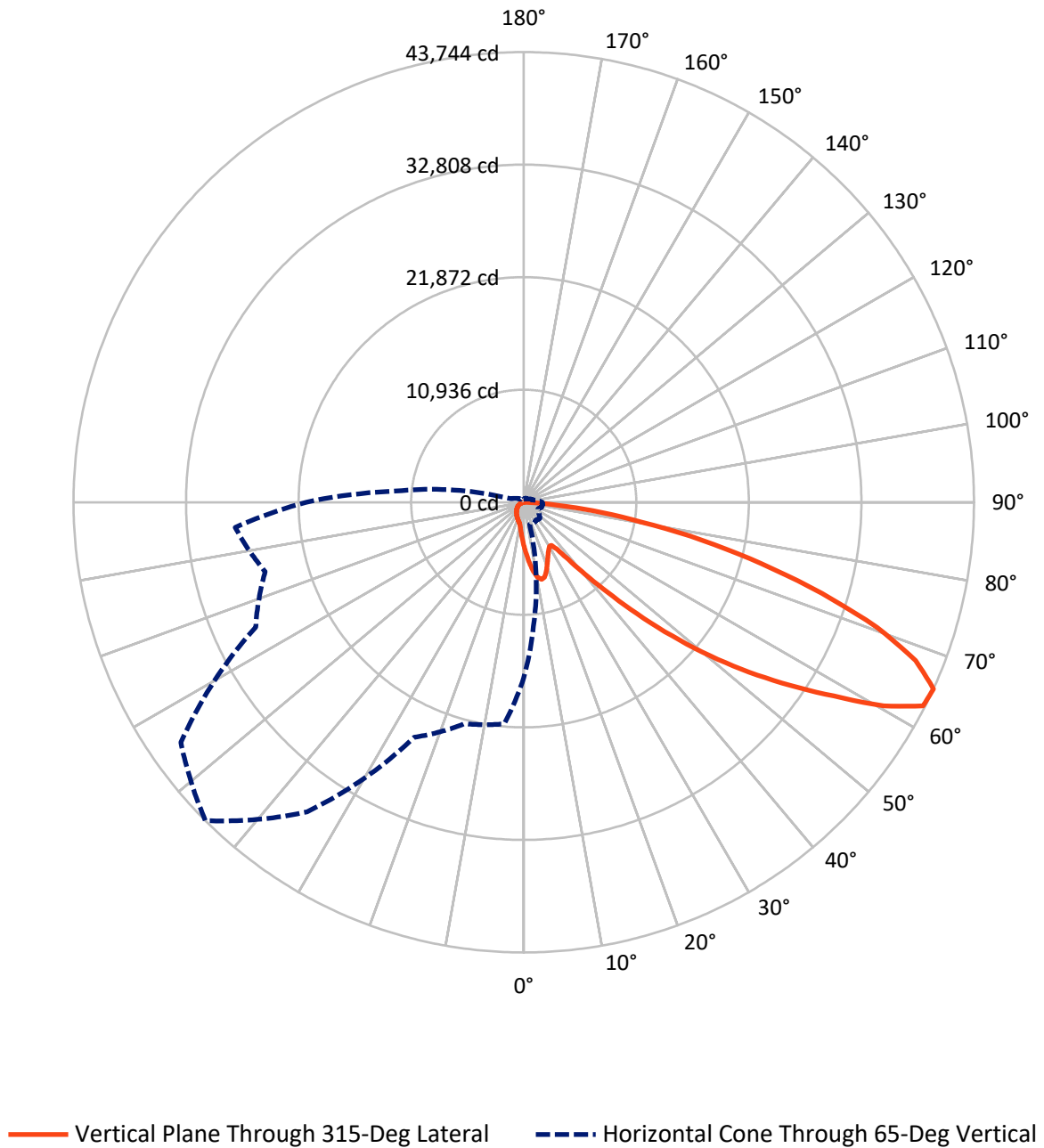
× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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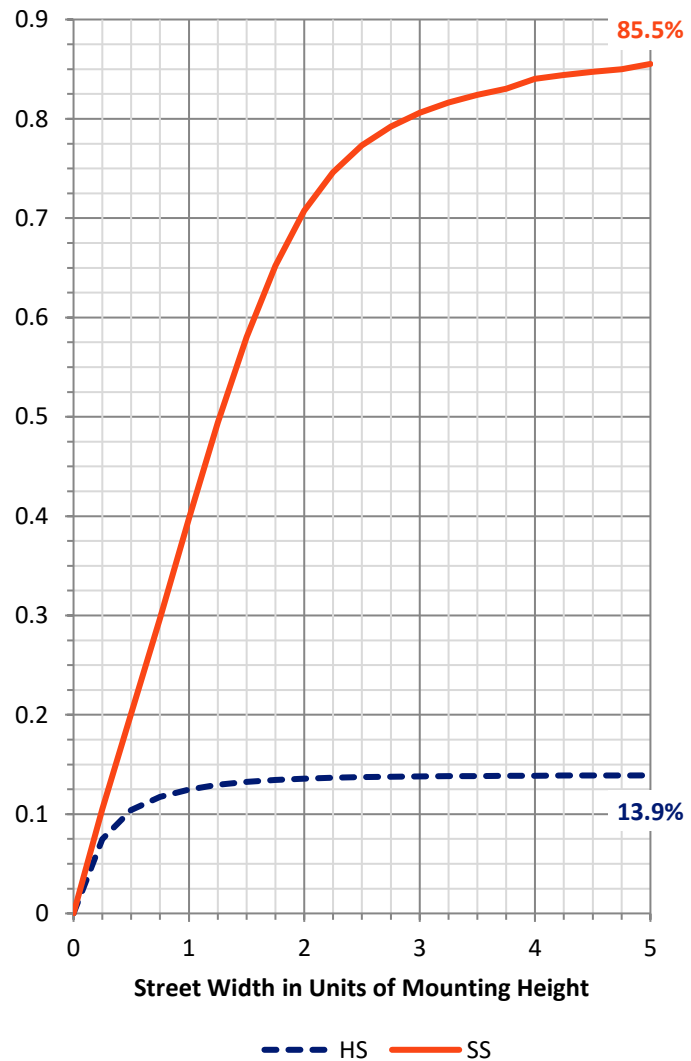
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4358.8	0.0	4358.8
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	26766.2	0.0	26766.2
	% Fixture	86.0	0.0	86.0
Total	Lumens	31125.0	0.0	31125.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	424.3	1.4
10°-20°	1272.0	4.1
20°-30°	1873.9	6.0
30°-40°	2407.4	7.7
40°-50°	3893.5	12.5
50°-60°	6827.7	21.9
60°-70°	8543.3	27.4
70°-80°	4992.3	16.0
80°-90°	890.7	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°	31125.0	100.0
0°-180°	31125.0	100.0

Coefficient of Utilization



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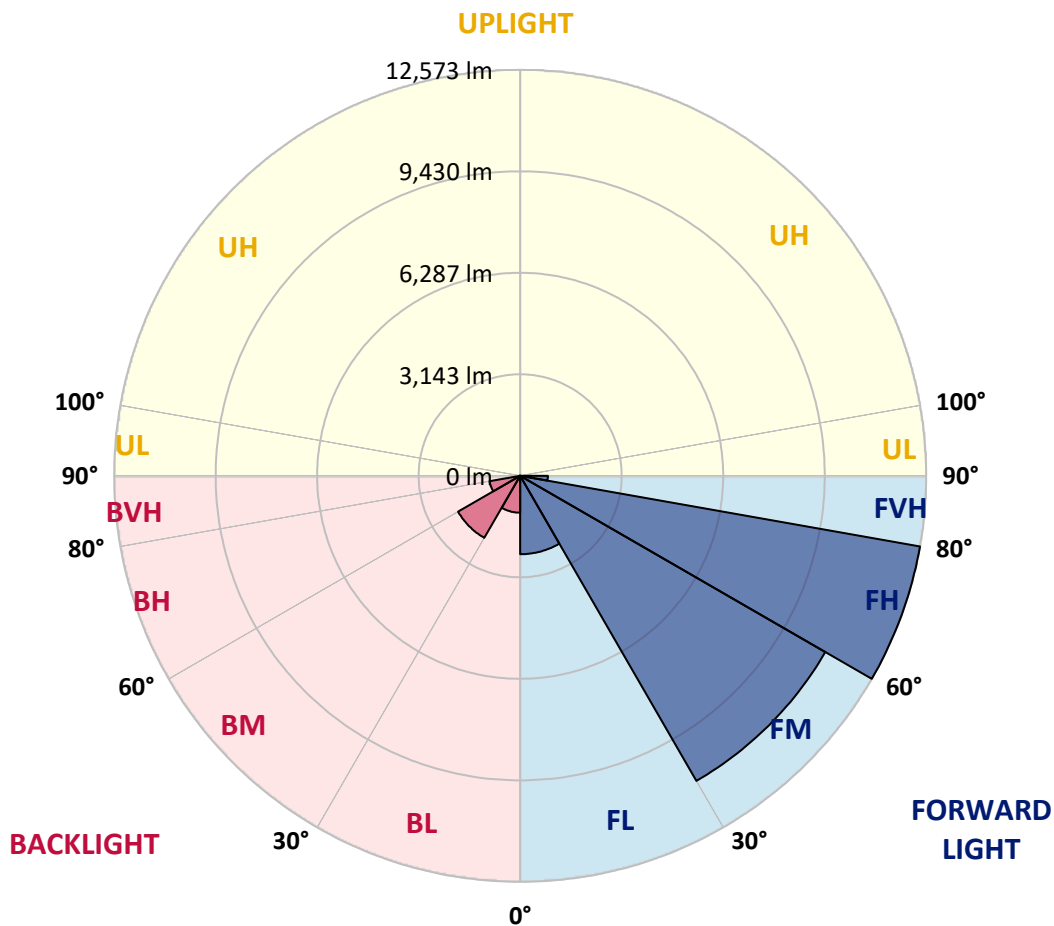
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2427.6	7.8			
FM	(30°-60°)	10909.0	35.0			
FH	(60°-80°)	12573.1	40.4			G5
FVH	(80°-90°)	856.5	2.8			G5
BL	(0°-30°)	1142.5	3.7	B3/2500		
BM	(30°-60°)	2219.6	7.1	B2/2500		
BH	(60°-80°)	962.5	3.1	B2/1000		G2/1000
BVH	(80°-90°)	34.2	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	4309.8	4309.8	4309.8	4309.8	4309.8	4309.8	4309.8	4309.8	4309.8	4309.8	4309.8
2.5°	4869.4	4785.8	4736.5	4614.3	4492.1	4393.4	4260.5	4172.6	4067.5	3966.7	3876.7
5°	5426.9	5291.9	5128.9	4905.9	4702.2	4494.2	4292.7	4093.3	3883.1	3690.1	3572.2
7.5°	5898.7	5703.5	5416.2	5120.3	4860.9	4610.0	4374.1	4110.4	3855.2	3552.9	3392.1
10°	6258.9	6010.2	5632.8	5244.7	4946.6	4693.6	4464.2	4241.2	3983.9	3619.4	3417.8
12.5°	6477.6	6211.7	5763.6	5309.0	4968.1	4685.0	4507.1	4408.4	4307.7	3945.3	3709.4
15°	6638.4	6351.1	5855.8	5354.0	4918.8	4571.4	4440.6	4539.2	4655.0	4423.5	4151.1
17.5°	6805.7	6503.3	5975.9	5373.3	4785.8	4350.6	4294.8	4550.0	4818.0	4807.3	4537.1
20°	6964.3	6664.1	6080.9	5360.5	4571.4	4082.5	4131.8	4457.8	4768.7	4899.5	4753.7
22.5°	7146.6	6829.2	6181.7	5311.2	4292.7	3831.7	3986.0	4312.0	4584.3	4738.7	4693.6
25°	7369.6	7037.2	6323.2	5238.2	3992.5	3623.7	3838.1	4142.6	4363.4	4470.6	4468.5
27.5°	7609.7	7285.9	6511.9	5199.7	3750.2	3475.7	3670.8	3941.0	4138.3	4213.3	4213.3
30°	7907.8	7575.4	6734.9	5156.8	3591.5	3390.0	3497.2	3707.3	3900.3	3975.3	3975.3
32.5°	8233.7	7897.0	6949.3	5053.8	3495.0	3325.6	3327.8	3460.7	3636.5	3726.6	3739.5
35°	8641.1	8283.0	7178.7	4828.7	3417.8	3250.6	3162.7	3227.0	3372.8	3480.0	3507.9
37.5°	9222.1	8789.0	7459.6	4507.1	3304.2	3134.8	2989.0	3004.0	3115.5	3233.4	3276.3
40°	10024.1	9468.7	7789.8	4172.6	3141.2	2971.8	2798.2	2791.7	2873.2	2989.0	3036.2
42.5°	11109.0	10367.1	8186.5	3853.1	2984.7	2774.6	2596.6	2585.9	2650.2	2751.0	2800.3
45°	12541.4	11516.4	8673.2	3578.6	2862.5	2581.6	2405.8	2401.5	2455.1	2543.0	2594.5
47.5°	14374.6	13113.8	9160.0	3392.1	2798.2	2429.4	2249.3	2257.8	2305.0	2384.3	2420.8
50°	16748.2	15195.9	9307.9	3297.8	2798.2	2347.9	2109.9	2152.8	2191.4	2251.4	2272.8
52.5°	19593.6	17194.2	8819.0	3212.0	2815.3	2358.6	1992.0	2084.2	2112.0	2163.5	2172.1
55°	22230.9	18174.1	7581.8	3094.1	2819.6	2425.1	1891.2	2028.4	2079.9	2099.2	2097.0
57.5°	23761.9	17837.5	6130.2	2894.7	2802.5	2470.1	1826.8	1959.8	2058.4	2071.3	2052.0
60°	23470.3	16656.0	4513.5	2742.4	2675.9	2453.0	1807.5	1854.7	2011.2	2030.5	2004.8
62.5°	21223.2	14674.8	3132.7	2624.5	2397.2	2377.9	1801.1	1689.6	1908.3	1955.5	1919.0
65°	17059.2	11552.9	2212.8	2260.0	2101.3	2214.9	1766.8	1518.1	1784.0	1848.3	1792.5
67.5°	12376.2	7817.7	1597.4	1831.1	1904.0	1951.2	1689.6	1393.7	1642.4	1728.2	1655.3
70°	7942.1	4221.9	1121.4	1209.3	1603.9	1657.5	1556.7	1282.2	1498.8	1597.4	1518.1
72.5°	5645.6	2493.7	806.2	847.0	1288.7	1380.9	1370.1	1157.9	1331.5	1451.6	1357.3
75°	3896.0	1374.4	544.6	604.7	934.9	1121.4	1057.1	994.9	1127.8	1250.1	1157.9
77.5°	2442.2	615.4	325.9	420.3	613.2	881.3	724.7	769.8	879.1	992.8	896.3
80°	1359.4	238.0	182.3	278.7	334.5	641.1	401.0	495.3	647.5	729.0	651.8
82.5°	295.9	30.0	81.5	120.1	130.8	373.1	212.3	287.3	407.4	401.0	347.4
85°	0.0	0.0	15.0	17.2	8.6	160.8	77.2	94.3	132.9	124.4	94.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	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°	4309.8	4309.8	4309.8	4309.8	4309.8	4309.8	4309.8	4309.8	4309.8	4309.8	4309.8
2.5°	3859.5	3754.5	3677.3	3638.7	3606.5	3636.5	3653.7	3653.7	3726.6	3769.5	3786.6
5°	3497.2	3308.5	3164.8	3068.3	3010.4	3029.7	3051.2	3074.8	3167.0	3229.1	3269.9
7.5°	3246.3	2956.8	2738.1	2603.0	2532.3	2543.0	2558.0	2577.3	2667.4	2729.6	2783.2
10°	3199.1	2783.2	2474.4	2296.4	2210.7	2195.6	2187.1	2180.6	2234.2	2281.4	2324.3
12.5°	3392.1	2791.7	2360.8	2144.2	2039.1	1994.1	1942.6	1901.9	1910.5	1940.5	1994.1
15°	3737.3	2901.1	2324.3	2064.9	1934.1	1859.0	1799.0	1749.7	1738.9	1749.7	1758.2
17.5°	4131.8	3049.0	2320.0	1996.2	1833.3	1756.1	1706.8	1661.7	1646.7	1648.9	1659.6
20°	4393.4	3167.0	2307.1	1919.0	1736.8	1668.2	1625.3	1580.3	1565.3	1569.5	1571.7
22.5°	4419.2	3229.1	2287.8	1833.3	1640.3	1582.4	1539.5	1498.8	1496.6	1496.6	1509.5
25°	4279.8	3229.1	2247.1	1756.1	1548.1	1496.6	1458.0	1408.7	1417.3	1421.6	1438.7
27.5°	4063.2	3152.0	2169.9	1693.9	1468.8	1415.2	1376.6	1331.5	1342.3	1348.7	1368.0
30°	3848.8	3053.3	2077.7	1623.1	1393.7	1331.5	1303.7	1265.1	1269.4	1277.9	1299.4
32.5°	3649.4	2948.3	1968.4	1565.3	1318.7	1256.5	1235.1	1192.2	1198.6	1207.2	1230.8
35°	3452.1	2832.5	1839.7	1496.6	1250.1	1187.9	1170.7	1121.4	1125.7	1138.6	1164.3
37.5°	3239.9	2710.3	1734.6	1428.0	1183.6	1119.3	1102.1	1050.7	1054.9	1069.9	1100.0
40°	3016.9	2590.2	1631.7	1355.1	1112.8	1048.5	1033.5	977.7	982.0	999.2	1031.4
42.5°	2791.7	2459.4	1552.4	1260.8	1039.9	971.3	956.3	904.8	911.3	930.6	962.7
45°	2583.7	2302.9	1500.9	1155.7	971.3	894.1	879.1	831.9	844.8	866.3	898.4
47.5°	2405.8	2142.0	1479.5	1067.8	898.4	814.8	801.9	763.3	784.8	808.4	834.1
50°	2253.5	1987.7	1451.6	977.7	829.8	746.2	733.3	707.6	735.5	759.0	782.6
52.5°	2144.2	1811.8	1391.6	896.3	769.8	688.3	684.0	671.1	696.9	718.3	739.7
55°	2049.8	1629.6	1295.1	825.5	716.2	639.0	643.3	636.8	658.3	675.4	694.7
57.5°	1964.1	1470.9	1172.9	769.8	658.3	596.1	608.9	600.4	611.1	621.8	645.4
60°	1861.2	1310.1	1027.1	707.6	589.7	553.2	568.2	544.6	542.5	546.8	553.2
62.5°	1708.9	1093.5	874.8	630.4	529.6	506.0	512.5	467.4	433.1	433.1	439.6
65°	1496.6	879.1	733.3	544.6	461.0	441.7	437.4	373.1	325.9	321.6	340.9
67.5°	1250.1	722.6	608.9	458.9	383.8	370.9	375.2	328.1	280.9	276.6	298.0
70°	1018.5	598.2	491.0	366.7	295.9	308.8	328.1	280.9	235.9	229.4	248.7
72.5°	827.7	476.0	383.8	280.9	218.7	255.2	278.7	229.4	186.5	182.3	199.4
75°	639.0	349.5	274.5	190.8	158.7	197.3	218.7	167.2	132.9	126.5	141.5
77.5°	426.7	216.6	154.4	120.1	94.3	135.1	145.8	87.9	77.2	75.0	85.8
80°	259.4	100.8	66.5	57.9	32.2	49.3	57.9	36.5	40.7	42.9	51.5
82.5°	130.8	27.9	10.7	2.1	0.0	0.0	17.2	8.6	17.2	21.4	32.2
85°	10.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	10.7	19.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.6
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°	4309.8	4309.8	4309.8	4309.8	4309.8	4309.8	4309.8	4309.8	4309.8	4309.8	4309.8
2.5°	3906.7	3996.8	4082.5	4219.8	4361.3	4500.6	4642.2	4779.4	4828.7	4865.2	4946.6
5°	3456.4	3625.8	3823.1	4095.4	4387.0	4687.2	4991.7	5270.4	5396.9	5482.7	5675.7
7.5°	2991.1	3212.0	3495.0	3904.6	4361.3	4839.4	5317.6	5757.1	5960.8	6125.9	6419.7
10°	2530.1	2770.3	3128.4	3595.8	4213.3	4899.5	5559.9	6164.5	6428.3	6636.3	7035.1
12.5°	2124.9	2350.0	2725.3	3242.0	3981.8	4852.3	5699.2	6426.1	6737.0	6970.8	7408.2
15°	1839.7	1998.4	2330.7	2888.2	3707.3	4700.1	5707.8	6550.5	6891.4	7135.9	7515.4
17.5°	1681.0	1734.6	1951.2	2528.0	3402.8	4500.6	5628.5	6593.4	6957.9	7185.2	7448.9
20°	1595.3	1603.9	1663.9	2060.6	3012.6	4314.1	5553.4	6636.3	7020.1	7210.9	7290.2
22.5°	1526.7	1526.7	1541.7	1685.3	2508.7	4091.1	5529.9	6711.3	7105.8	7223.8	7060.8
25°	1464.5	1464.5	1468.8	1507.4	1987.7	3750.2	5514.8	6827.1	7223.8	7255.9	6807.8
27.5°	1400.2	1402.3	1402.3	1423.7	1601.7	3287.0	5450.5	6977.2	7365.3	7298.8	6565.5
30°	1335.8	1340.1	1340.1	1355.1	1417.3	2744.6	5324.0	7157.3	7549.7	7354.6	6325.4
32.5°	1271.5	1275.8	1275.8	1288.7	1333.7	2191.4	5165.3	7322.4	7736.2	7378.1	6102.4
35°	1205.0	1211.5	1207.2	1224.3	1271.5	1743.2	4963.8	7487.5	7937.8	7453.2	5993.0
37.5°	1138.6	1142.9	1140.7	1157.9	1211.5	1505.2	4730.1	7611.9	8212.2	7620.4	6123.8
40°	1072.1	1069.9	1069.9	1089.2	1147.1	1436.6	4436.3	7809.1	8606.8	7914.2	6694.2
42.5°	1003.5	1003.5	999.2	1020.6	1091.4	1385.1	4155.4	8162.9	9181.4	8381.6	7706.2
45°	941.3	939.2	930.6	949.9	1037.8	1295.1	4056.8	8823.3	10030.5	9138.5	8930.5
47.5°	881.3	879.1	857.7	874.8	973.5	1213.6	4425.6	9904.0	11207.7	10251.4	10077.7
50°	827.7	829.8	789.1	804.1	909.1	1151.4	5225.4	11306.3	12770.8	11750.1	11164.8
52.5°	778.3	778.3	724.7	733.3	829.8	1095.7	5986.6	12826.5	14833.5	13840.7	12432.0
55°	729.0	724.7	664.7	669.0	750.5	1016.3	6100.2	14310.3	17646.7	16986.3	14164.5
57.5°	673.3	664.7	608.9	608.9	677.6	958.5	5287.6	15451.0	21137.4	21609.1	16662.5
60°	604.7	598.2	561.8	551.1	619.7	1009.9	3730.9	15584.0	23388.8	27756.5	21446.2
62.5°	516.7	525.3	506.0	491.0	563.9	1048.5	2210.7	14514.0	22844.2	29712.0	27175.4
65°	407.4	441.7	437.4	426.7	619.7	883.4	1305.8	12459.9	21173.9	28133.9	26006.8
67.5°	347.4	370.9	364.5	364.5	649.7	671.1	821.2	9734.6	18875.3	26262.0	23230.1
70°	295.9	319.5	295.9	295.9	491.0	407.4	568.2	6797.1	16394.5	24190.7	21407.6
72.5°	244.4	268.0	242.3	225.1	392.4	304.5	416.0	4247.6	14040.1	22033.7	20159.6
75°	186.5	214.4	195.1	173.7	259.4	227.3	315.2	2468.0	11632.2	18851.7	18382.1
77.5°	117.9	154.4	145.8	122.2	190.8	165.1	227.3	1468.8	8975.6	14730.6	15811.2
80°	72.9	79.3	81.5	77.2	109.4	111.5	154.4	836.2	6143.1	10266.4	12352.7
82.5°	47.2	47.2	36.5	40.7	53.6	64.3	87.9	315.2	3610.8	6250.3	8598.2
85°	34.3	30.0	19.3	19.3	25.7	32.2	34.3	96.5	1464.5	2468.0	3362.1
87.5°	17.2	15.0	6.4	8.6	12.9	10.7	8.6	4.3	368.8	789.1	553.2
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°	4309.8	4309.8	4309.8	4309.8	4309.8	4309.8	4309.8	4309.8
2.5°	4989.5	5056.0	5060.3	5060.3	5002.4	5000.2	4882.3	4869.4
5°	5875.1	5918.0	5928.7	5907.2	5791.5	5705.7	5476.3	5426.9
7.5°	6685.6	6771.3	6771.3	6719.9	6531.2	6355.4	6023.0	5898.7
10°	7333.1	7431.8	7410.3	7305.2	7067.2	6824.9	6421.8	6258.9
12.5°	7648.3	7749.1	7693.3	7573.3	7341.7	7086.5	6662.0	6477.6
15°	7641.9	7614.0	7556.1	7541.1	7429.6	7236.6	6840.0	6638.4
17.5°	7369.6	7133.7	7088.7	7238.8	7380.3	7333.1	6994.3	6805.7
20°	6938.6	6526.9	6486.2	6773.5	7176.6	7382.4	7138.0	6964.3
22.5°	6484.0	6040.2	5945.8	6263.2	6870.0	7397.4	7320.3	7146.6
25°	6053.0	5607.0	5512.7	5808.6	6529.1	7371.7	7517.5	7369.6
27.5°	5692.8	5261.8	5173.9	5469.8	6201.0	7298.8	7714.8	7609.7
30°	5414.1	5015.3	4950.9	5236.1	5918.0	7208.8	7965.7	7907.8
32.5°	5251.1	4959.5	4983.1	5216.8	5765.7	7110.1	8205.8	8233.7
35°	5411.9	5424.8	5630.6	5727.1	5907.2	7095.1	8531.7	8641.1
37.5°	6211.7	6657.7	7084.4	7005.1	6599.8	7268.8	9018.5	9222.1
40°	7573.3	8488.8	9181.4	8879.1	7858.4	7800.6	9719.6	10024.1
42.5°	9237.2	10789.6	11930.3	11119.8	9481.6	8731.1	10720.9	11109.0
45°	10993.2	13626.3	15423.1	13737.8	11212.0	10034.8	12236.9	12541.4
47.5°	12843.7	17074.2	19398.5	16641.0	12815.8	11518.6	14303.9	14374.6
50°	14867.8	20854.4	23451.0	19542.1	14363.9	13218.9	16829.7	16748.2
52.5°	16795.4	24741.8	27417.7	22456.1	15723.3	15328.8	19760.8	19593.6
55°	18635.1	28627.0	31408.1	25256.4	17005.5	18116.2	23243.0	22230.9
57.5°	20768.6	32119.9	35520.6	28069.6	18798.1	21735.6	27136.8	23761.9
60°	23922.7	36088.8	40171.4	31924.8	22207.3	25539.4	28532.7	23470.3
62.5°	27949.5	39738.2	43552.7	35702.9	25631.6	26255.6	26476.4	21223.2
65°	28732.1	40662.4	43743.6	36712.8	25189.9	22271.7	21615.6	17059.2
67.5°	26656.5	38992.0	41076.2	34832.3	22282.4	17211.4	16220.8	12376.2
70°	24327.9	35807.9	36427.6	31635.3	19597.9	12659.3	10954.7	7942.1
72.5°	21941.5	31560.3	30278.1	27473.5	17224.3	9217.9	7901.3	5645.6
75°	19106.9	25974.7	23849.8	22827.0	14261.0	7234.5	5716.4	3896.0
77.5°	15300.9	18283.5	17715.3	17693.8	10716.6	5285.4	3814.5	2442.2
80°	10793.8	11865.9	11576.5	13326.1	7189.5	3833.8	2296.4	1359.4
82.5°	5225.4	6561.2	6734.9	7935.6	3497.2	2255.7	529.6	295.9
85°	2045.6	3164.8	2669.5	3012.6	982.0	628.2	12.9	0.0
87.5°	229.4	366.7	336.6	265.9	120.1	25.7	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)