

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: LUMARK

Report Number: P971322

Luminaire Tested: **NAV-SB6D-722-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971322
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: LUMARK
Catalog Number: NAV-SB6D-722-U-SLR-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2200K, 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: 39877.6 lumens
Efficiency: N/A
Efficacy: 90.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

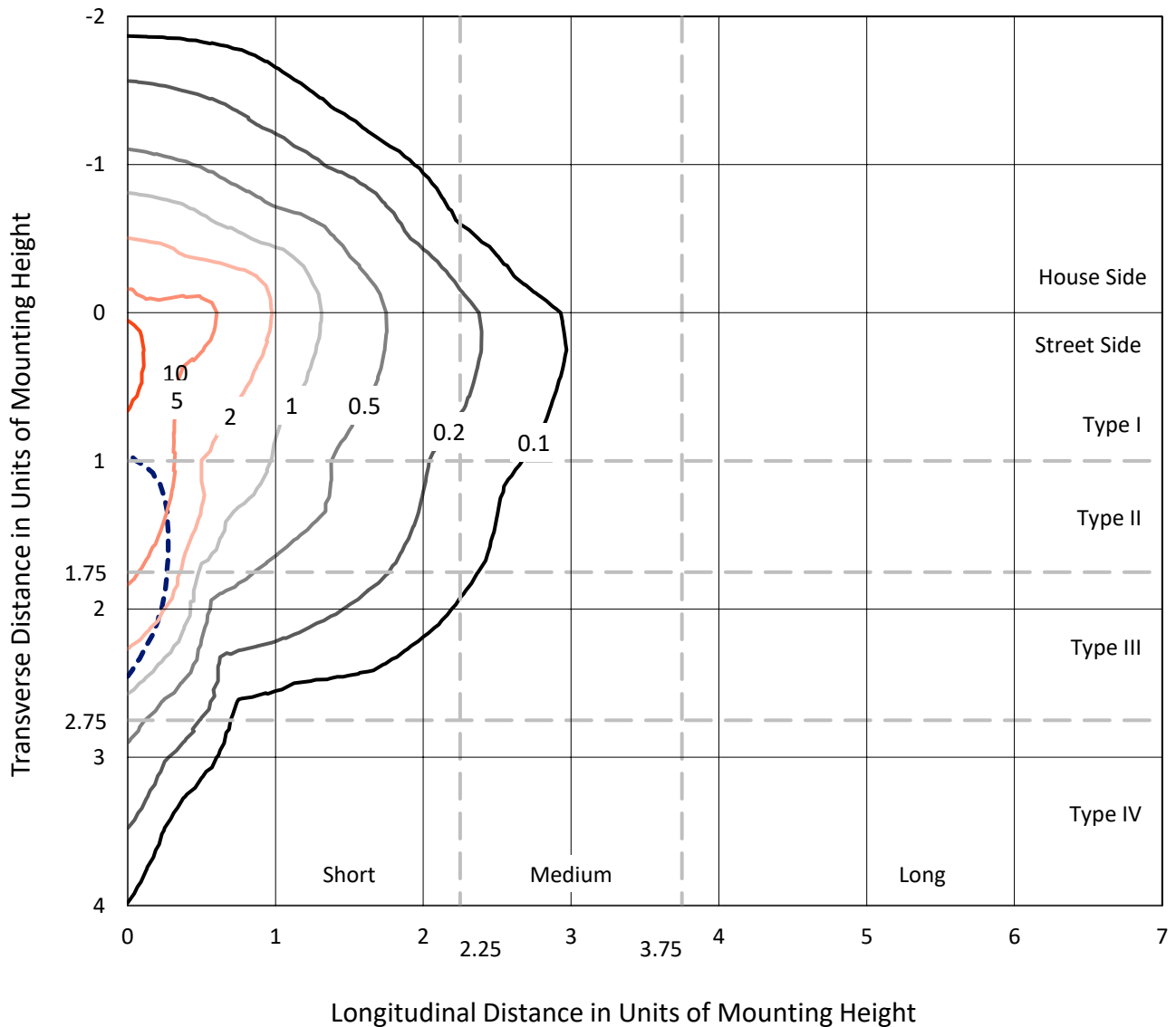
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

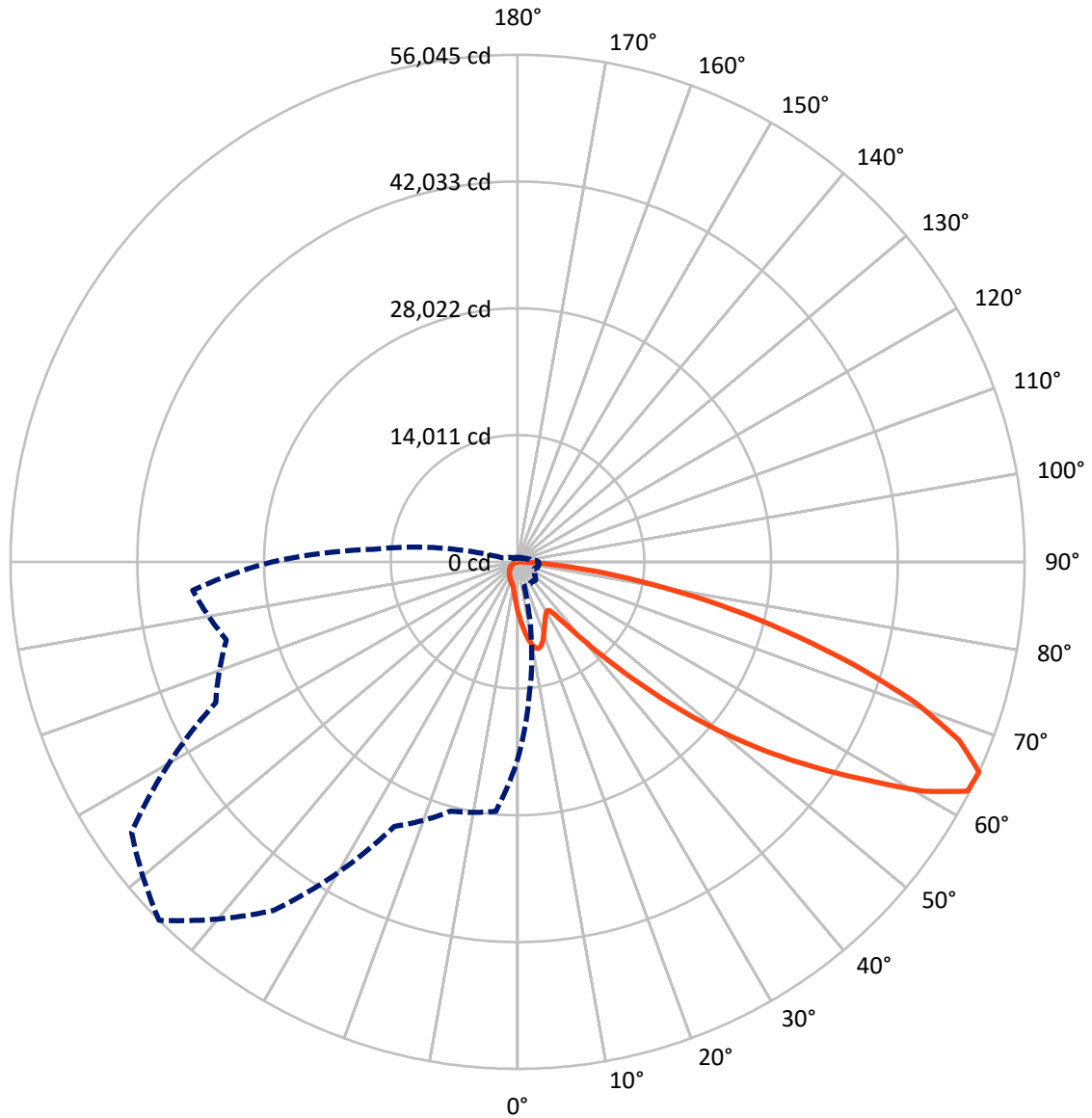
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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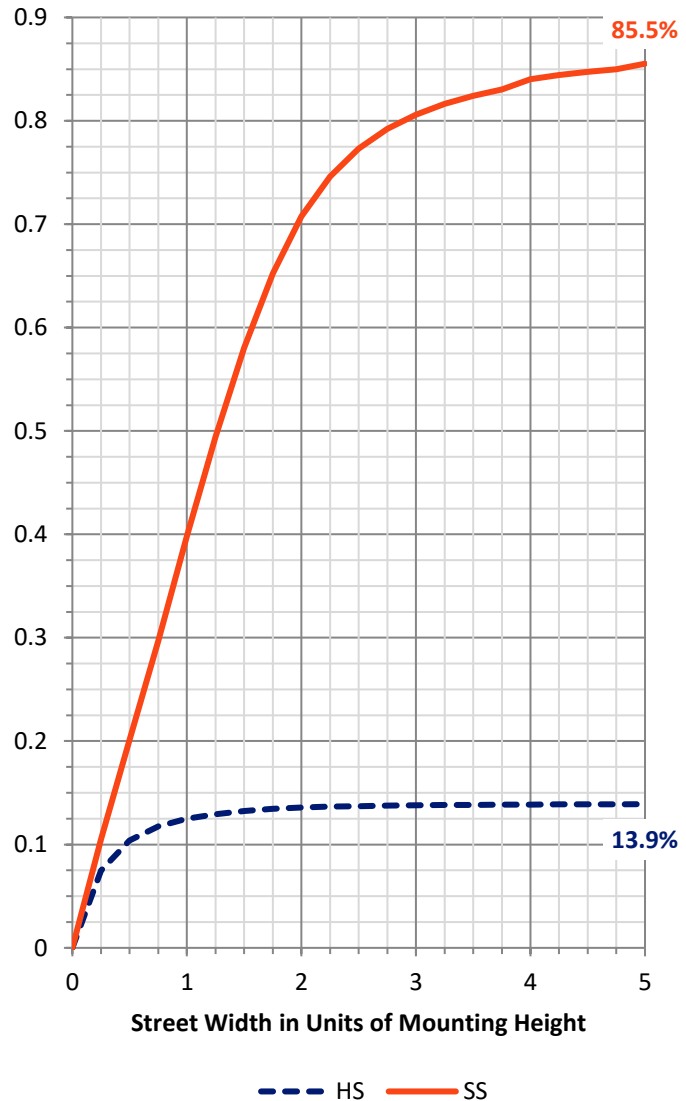
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5584.6	0.0	5584.6
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	34293.1	0.0	34293.1
	% Fixture	86.0	0.0	86.0
Total	Lumens	39877.6	0.0	39877.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	543.6	1.4
10°-20°	1629.7	4.1
20°-30°	2400.8	6.0
30°-40°	3084.4	7.7
40°-50°	4988.4	12.5
50°-60°	8747.6	21.9
60°-70°	10945.7	27.4
70°-80°	6396.2	16.0
80°-90°	1141.2	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°	39877.6	100.0
0°-180°	39877.6	100.0

Coefficient of Utilization



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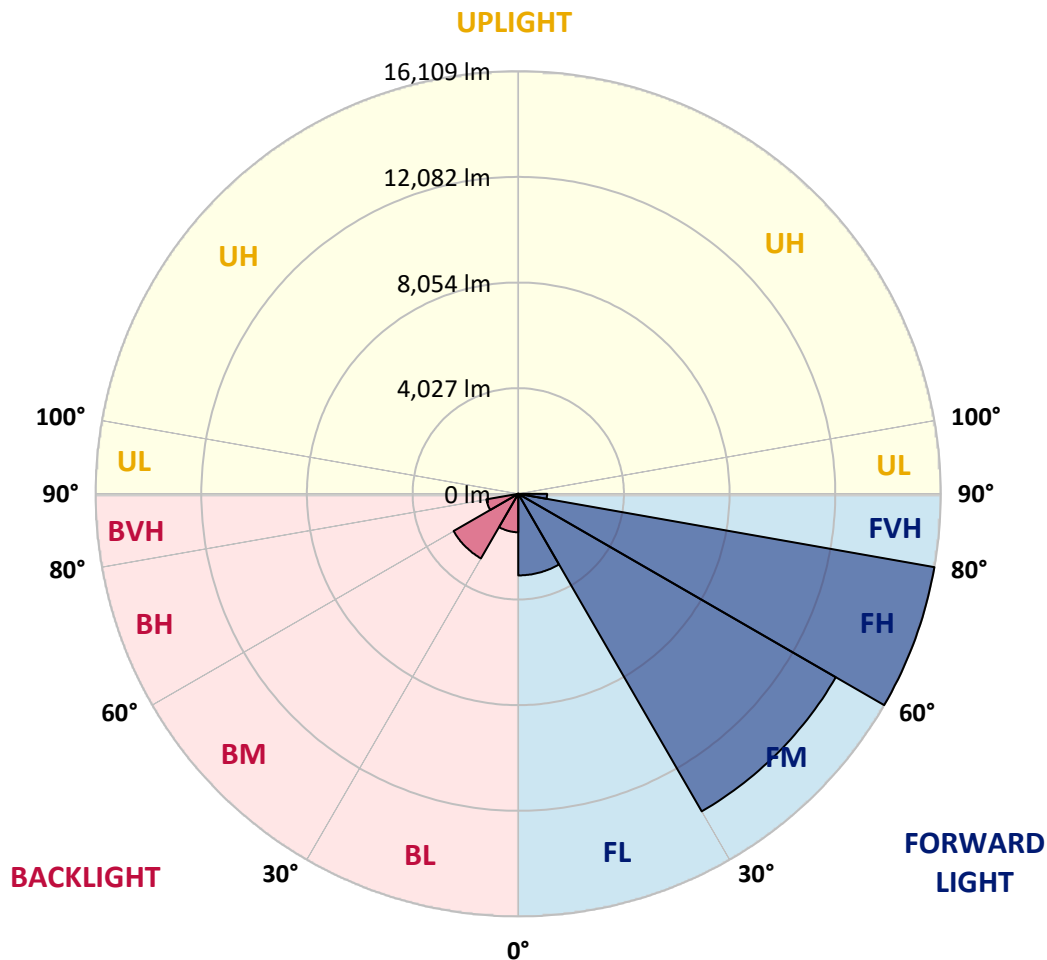
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3110.3	7.8			
FM (30°-60°)	13976.7	35.0			
FH (60°-80°)	16108.7	40.4			G5
FVH (80°-90°)	1097.3	2.8			G5
BL (0°-30°)	1463.8	3.7	B3/2500		
BM (30°-60°)	2843.8	7.1	B3/5000		
BH (60°-80°)	1233.1	3.1	B3/2500		G3/2500
BVH (80°-90°)	43.8	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°	5521.8	5521.8	5521.8	5521.8	5521.8	5521.8	5521.8	5521.8	5521.8	5521.8	5521.8
2.5°	6238.8	6131.7	6068.4	5911.9	5755.3	5628.9	5458.6	5346.0	5211.3	5082.3	4966.8
5°	6953.1	6780.0	6571.2	6285.5	6024.5	5758.0	5499.8	5244.3	4975.0	4727.8	4576.7
7.5°	7557.4	7307.4	6939.4	6560.2	6227.8	5906.4	5604.2	5266.2	4939.4	4552.0	4346.0
10°	8019.0	7700.3	7216.7	6719.5	6337.7	6013.5	5719.6	5433.8	5104.2	4637.2	4379.0
12.5°	8299.1	7958.5	7384.3	6801.9	6365.1	6002.5	5774.5	5648.2	5519.0	5054.8	4752.6
15°	8505.1	8137.1	7502.5	6859.6	6302.0	5857.0	5689.4	5815.7	5964.1	5667.3	5318.5
17.5°	8719.5	8332.1	7656.3	6884.4	6131.7	5574.0	5502.5	5829.5	6172.9	6159.1	5813.0
20°	8922.7	8538.1	7790.9	6867.9	5857.0	5230.6	5293.7	5711.3	6109.6	6277.2	6090.4
22.5°	9156.2	8749.7	7920.1	6804.7	5499.8	4909.1	5107.0	5524.5	5873.5	6071.2	6013.5
25°	9442.0	9016.1	8101.4	6711.3	5115.2	4642.7	4917.4	5307.4	5590.5	5727.8	5725.0
27.5°	9749.6	9334.8	8343.1	6661.9	4804.8	4453.1	4703.1	5049.3	5302.0	5398.2	5398.2
30°	10131.5	9705.7	8628.8	6606.9	4601.4	4343.2	4480.6	4749.8	4997.1	5093.2	5093.2
32.5°	10549.1	10117.8	8903.6	6475.0	4477.8	4260.8	4263.6	4433.9	4659.1	4774.6	4791.1
35°	11071.0	10612.2	9197.4	6186.6	4379.0	4164.7	4052.0	4134.4	4321.3	4458.6	4494.3
37.5°	11815.5	11260.5	9557.3	5774.5	4233.4	4016.4	3829.5	3848.8	3991.7	4142.7	4197.7
40°	12842.9	12131.4	9980.4	5346.0	4024.6	3807.6	3585.0	3576.8	3681.2	3829.5	3890.0
42.5°	14232.9	13282.5	10488.6	4936.6	3824.1	3554.8	3326.8	3313.1	3395.5	3524.6	3587.8
45°	16068.1	14755.0	11112.2	4585.0	3667.4	3307.6	3082.3	3076.8	3145.5	3258.2	3324.1
47.5°	18416.9	16801.6	11735.8	4346.0	3585.0	3112.5	2881.8	2892.8	2953.2	3054.8	3101.5
50°	21458.0	19469.1	11925.4	4225.2	3585.0	3008.2	2703.2	2758.2	2807.6	2884.6	2912.0
52.5°	25103.5	22029.4	11299.0	4115.3	3607.0	3021.9	2552.1	2670.2	2705.9	2771.9	2782.9
55°	28482.5	23284.8	9713.9	3964.2	3612.5	3107.0	2423.0	2598.8	2664.7	2689.5	2686.7
57.5°	30443.9	22853.6	7854.1	3708.7	3590.6	3164.7	2340.6	2510.9	2637.2	2653.7	2629.0
60°	30070.3	21339.9	5782.7	3513.6	3428.4	3142.8	2315.9	2376.3	2576.8	2601.6	2568.5
62.5°	27191.3	18801.5	4013.6	3362.5	3071.3	3046.6	2307.6	2164.8	2444.9	2505.4	2458.7
65°	21856.4	14801.6	2835.0	2895.5	2692.2	2837.8	2263.6	1944.9	2285.6	2368.1	2296.6
67.5°	15856.5	10016.1	2046.6	2346.0	2439.5	2499.9	2164.8	1785.7	2104.3	2214.2	2120.8
70°	10175.5	5409.1	1436.7	1549.4	2054.9	2123.6	1994.4	1642.8	1920.2	2046.6	1944.9
72.5°	7233.2	3194.9	1032.9	1085.2	1651.1	1769.2	1755.4	1483.5	1706.0	1859.9	1738.9
75°	4991.5	1761.0	697.8	774.7	1197.7	1436.7	1354.3	1274.7	1445.0	1601.6	1483.5
77.5°	3129.0	788.4	417.6	538.4	785.7	1129.0	928.5	986.3	1126.4	1271.9	1148.3
80°	1741.7	304.9	233.5	357.1	428.6	821.4	513.7	634.6	829.6	934.1	835.2
82.5°	379.1	38.4	104.3	153.9	167.6	478.0	271.9	368.1	521.9	513.7	445.1
85°	0.0	0.0	19.3	21.9	11.0	206.0	98.9	120.8	170.4	159.3	120.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	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°	5521.8	5521.8	5521.8	5521.8	5521.8	5521.8	5521.8	5521.8	5521.8	5521.8	5521.8
2.5°	4944.9	4810.2	4711.4	4661.9	4620.7	4659.1	4681.2	4681.2	4774.6	4829.5	4851.4
5°	4480.6	4238.9	4054.8	3931.2	3857.0	3881.7	3909.2	3939.4	4057.6	4137.2	4189.4
7.5°	4159.1	3788.3	3508.1	3335.0	3244.4	3258.2	3277.3	3302.0	3417.5	3497.1	3565.8
10°	4098.8	3565.8	3170.2	2942.2	2832.3	2813.1	2802.1	2793.8	2862.5	2923.0	2977.9
12.5°	4346.0	3576.8	3024.6	2747.1	2612.5	2554.8	2488.9	2436.7	2447.7	2486.1	2554.8
15°	4788.3	3716.9	2977.9	2645.5	2477.9	2381.8	2304.8	2241.7	2227.9	2241.7	2252.6
17.5°	5293.7	3906.5	2972.4	2557.6	2348.8	2249.9	2186.7	2129.0	2109.9	2112.5	2126.3
20°	5628.9	4057.6	2955.9	2458.7	2225.2	2137.3	2082.4	2024.7	2005.4	2010.9	2013.6
22.5°	5661.9	4137.2	2931.2	2348.8	2101.6	2027.3	1972.4	1920.2	1917.5	1917.5	1934.0
25°	5483.3	4137.2	2879.0	2249.9	1983.5	1917.5	1868.1	1804.9	1815.9	1821.3	1843.4
27.5°	5205.9	4038.3	2780.1	2170.2	1881.8	1813.1	1763.7	1706.0	1719.7	1727.9	1752.6
30°	4931.2	3911.9	2662.0	2079.6	1785.7	1706.0	1670.2	1620.8	1626.3	1637.3	1664.8
32.5°	4675.6	3777.3	2521.9	2005.4	1689.5	1609.9	1582.4	1527.5	1535.7	1546.6	1576.9
35°	4422.9	3629.0	2357.1	1917.5	1601.6	1521.9	1500.0	1436.7	1442.3	1458.8	1491.7
37.5°	4150.9	3472.4	2222.4	1829.6	1516.4	1434.0	1412.0	1346.1	1351.6	1370.8	1409.3
40°	3865.3	3318.5	2090.6	1736.2	1425.8	1343.4	1324.1	1252.7	1258.2	1280.1	1321.4
42.5°	3576.8	3151.0	1988.9	1615.3	1332.4	1244.5	1225.2	1159.3	1167.6	1192.3	1233.5
45°	3310.3	2950.5	1923.0	1480.7	1244.5	1145.5	1126.4	1065.9	1082.4	1109.9	1151.1
47.5°	3082.3	2744.4	1895.5	1368.1	1151.1	1044.0	1027.5	978.0	1005.4	1035.7	1068.7
50°	2887.2	2546.6	1859.9	1252.7	1063.1	956.0	939.5	906.5	942.3	972.5	1002.8
52.5°	2747.1	2321.3	1782.9	1148.3	986.3	881.8	876.4	859.9	892.8	920.2	947.8
55°	2626.3	2087.8	1659.3	1057.7	917.6	818.7	824.1	815.9	843.4	865.3	890.1
57.5°	2516.4	1884.6	1502.6	986.3	843.4	763.7	780.2	769.2	782.9	796.6	826.9
60°	2384.6	1678.5	1315.9	906.5	755.4	708.8	728.0	697.8	695.1	700.5	708.8
62.5°	2189.5	1401.1	1120.8	807.7	678.6	648.3	656.6	598.9	554.9	554.9	563.1
65°	1917.5	1126.4	939.5	697.8	590.6	565.9	560.5	478.0	417.6	412.0	436.8
67.5°	1601.6	925.8	780.2	587.9	491.7	475.3	480.7	420.4	359.9	354.3	381.8
70°	1304.9	766.5	629.1	469.8	379.1	395.5	420.4	359.9	302.2	294.0	318.7
72.5°	1060.4	609.9	491.7	359.9	280.2	326.9	357.1	294.0	239.0	233.5	255.5
75°	818.7	447.8	351.7	244.5	203.3	252.8	280.2	214.3	170.4	162.1	181.3
77.5°	546.6	277.5	197.8	153.9	120.8	173.0	186.9	112.6	98.9	96.1	109.9
80°	332.4	129.1	85.2	74.2	41.2	63.1	74.2	46.7	52.2	54.9	65.9
82.5°	167.6	35.7	13.7	2.8	0.0	0.0	21.9	11.0	21.9	27.5	41.2
85°	13.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	13.7	24.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.0
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°	5521.8	5521.8	5521.8	5521.8	5521.8	5521.8	5521.8	5521.8	5521.8	5521.8	5521.8
2.5°	5005.3	5120.7	5230.6	5406.4	5587.7	5766.2	5947.6	6123.5	6186.6	6233.3	6337.7
5°	4428.4	4645.4	4898.2	5247.1	5620.7	6005.3	6395.4	6752.5	6914.5	7024.4	7271.8
7.5°	3832.3	4115.3	4477.8	5002.5	5587.7	6200.3	6813.0	7376.1	7637.1	7848.6	8225.0
10°	3241.7	3549.4	4008.1	4607.0	5398.2	6277.2	7123.3	7898.0	8236.0	8502.5	9013.4
12.5°	2722.4	3010.8	3491.7	4153.7	5101.4	6216.8	7301.9	8233.2	8631.5	8931.0	9491.4
15°	2357.1	2560.3	2986.1	3700.5	4749.8	6021.8	7313.0	8392.6	8829.3	9142.5	9628.7
17.5°	2153.7	2222.4	2499.9	3238.9	4359.7	5766.2	7211.3	8447.5	8914.5	9205.7	9543.6
20°	2043.8	2054.9	2131.8	2640.0	3859.7	5527.3	7115.1	8502.5	8994.2	9238.6	9340.3
22.5°	1956.0	1956.0	1975.2	2159.3	3214.2	5241.5	7084.9	8598.6	9104.0	9255.1	9046.3
25°	1876.3	1876.3	1881.8	1931.2	2546.6	4804.8	7065.6	8746.9	9255.1	9296.3	8722.2
27.5°	1793.9	1796.6	1796.6	1824.1	2052.2	4211.4	6983.2	8939.2	9436.5	9351.3	8411.8
30°	1711.4	1717.0	1717.0	1736.2	1815.9	3516.4	6821.2	9170.0	9672.7	9422.7	8104.1
32.5°	1629.0	1634.6	1634.6	1651.1	1708.8	2807.6	6617.9	9381.5	9911.8	9453.0	7818.4
35°	1543.9	1552.2	1546.6	1568.7	1629.0	2233.5	6359.6	9593.1	10169.9	9549.1	7678.3
37.5°	1458.8	1464.2	1461.4	1483.5	1552.2	1928.5	6060.2	9752.4	10521.6	9763.3	7845.9
40°	1373.6	1370.8	1370.8	1395.5	1469.7	1840.6	5683.8	10005.1	11027.1	10139.7	8576.6
42.5°	1285.7	1285.7	1280.1	1307.7	1398.3	1774.7	5324.0	10458.4	11763.3	10738.6	9873.3
45°	1206.0	1203.2	1192.3	1217.0	1329.6	1659.3	5197.6	11304.5	12851.1	11708.4	11441.9
47.5°	1129.0	1126.4	1098.9	1120.8	1247.2	1554.9	5670.1	12689.1	14359.3	13134.1	12911.6
50°	1060.4	1063.1	1011.0	1030.2	1164.8	1475.2	6694.8	14485.7	16362.1	15054.4	14304.4
52.5°	997.2	997.2	928.5	939.5	1063.1	1403.8	7670.1	16433.4	19004.8	17732.9	15928.0
55°	934.1	928.5	851.6	857.1	961.6	1302.2	7815.6	18334.5	22609.0	21762.9	18147.7
57.5°	862.6	851.6	780.2	780.2	868.1	1227.9	6774.4	19795.9	27081.4	27685.8	21348.1
60°	774.7	766.5	719.8	706.0	794.0	1293.9	4780.1	19966.3	29966.0	35561.9	27477.0
62.5°	662.0	673.0	648.3	629.1	722.5	1343.4	2832.3	18595.4	29268.2	38067.3	34817.4
65°	521.9	565.9	560.5	546.6	794.0	1131.8	1673.0	15963.7	27128.2	36045.4	33320.2
67.5°	445.1	475.3	467.0	467.0	832.4	859.9	1052.2	12472.1	24183.1	33647.2	29762.6
70°	379.1	409.3	379.1	379.1	629.1	521.9	728.0	8708.5	21004.7	30993.3	27427.6
72.5°	313.1	343.4	310.5	288.4	502.8	390.1	532.9	5442.1	17988.3	28229.7	25828.8
75°	239.0	274.7	250.0	222.5	332.4	291.2	403.8	3162.0	14903.3	24153.0	23551.3
77.5°	151.1	197.8	186.9	156.6	244.5	211.6	291.2	1881.8	11499.6	18872.9	20257.5
80°	93.4	101.7	104.3	98.9	140.1	142.9	197.8	1071.4	7870.6	13153.3	15826.3
82.5°	60.5	60.5	46.7	52.2	68.7	82.4	112.6	403.8	4626.2	8007.9	11016.1
85°	44.0	38.4	24.7	24.7	33.0	41.2	44.0	123.6	1876.3	3162.0	4307.6
87.5°	21.9	19.3	8.2	11.0	16.5	13.7	11.0	5.5	472.5	1011.0	708.8
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°	5521.8	5521.8	5521.8	5521.8	5521.8	5521.8	5521.8	5521.8
2.5°	6392.6	6477.8	6483.2	6483.2	6409.1	6406.4	6255.3	6238.8
5°	7527.2	7582.1	7595.9	7568.4	7420.1	7310.2	7016.2	6953.1
7.5°	8565.6	8675.5	8675.5	8609.6	8367.8	8142.6	7716.7	7557.4
10°	9395.3	9521.6	9494.2	9359.6	9054.6	8744.2	8227.7	8019.0
12.5°	9799.1	9928.3	9856.8	9703.0	9406.2	9079.3	8535.4	8299.1
15°	9790.8	9755.1	9680.9	9661.8	9518.9	9271.6	8763.4	8505.1
17.5°	9442.0	9139.8	9082.1	9274.4	9455.7	9395.3	8961.2	8719.5
20°	8889.8	8362.4	8310.1	8678.3	9194.8	9458.4	9145.3	8922.7
22.5°	8307.4	7738.7	7617.9	8024.4	8801.9	9477.7	9378.8	9156.2
25°	7755.3	7183.8	7063.0	7442.0	8365.1	9444.7	9631.5	9442.0
27.5°	7293.7	6741.5	6628.9	7008.0	7944.8	9351.3	9884.3	9749.6
30°	6936.6	6425.6	6343.2	6708.5	7582.1	9236.0	10205.7	10131.5
32.5°	6727.8	6354.2	6384.4	6683.8	7387.1	9109.6	10513.3	10549.1
35°	6933.8	6950.3	7214.1	7337.7	7568.4	9090.3	10930.9	11071.0
37.5°	7958.5	8529.9	9076.6	8974.9	8455.7	9312.8	11554.5	11815.5
40°	9703.0	10876.0	11763.3	11376.0	10068.3	9994.2	12452.8	12842.9
42.5°	11834.8	13823.7	15285.1	14246.7	12147.9	11186.4	13735.7	14232.9
45°	14084.6	17458.1	19760.3	17601.0	14364.9	12856.7	15678.0	16068.1
47.5°	16455.5	21875.6	24853.5	21320.6	16419.7	14757.7	18326.3	18416.9
50°	19048.7	26718.8	30045.6	25037.6	18403.2	16936.2	21562.4	21458.0
52.5°	21518.4	31699.4	35127.9	28770.9	20144.8	19639.4	25317.7	25103.5
55°	23875.5	36677.3	40240.3	32358.7	21787.7	23210.7	29779.1	28482.5
57.5°	26608.9	41152.3	45509.3	35962.9	24084.3	27847.9	34768.0	30443.9
60°	30650.0	46237.3	51467.9	40902.3	28452.3	32721.3	36556.3	30070.3
62.5°	35809.1	50913.0	55800.2	45742.8	32839.5	33638.9	33921.9	27191.3
65°	36811.8	52097.0	56044.6	47036.7	32273.6	28534.7	27694.1	21856.4
67.5°	34152.6	49957.0	52627.2	44627.5	28548.4	22051.3	20782.2	15856.5
70°	31169.2	45877.5	46671.3	40531.5	25109.0	16219.2	14035.2	10175.5
72.5°	28111.6	40435.3	38792.6	35199.2	22067.8	11810.0	10123.2	7233.2
75°	24479.9	33279.0	30556.6	29246.2	18271.3	9268.9	7323.9	4991.5
77.5°	19603.6	23424.9	22697.0	22669.5	13730.3	6771.8	4887.2	3129.0
80°	13829.2	15202.7	14831.9	17073.5	9211.2	4911.9	2942.2	1741.7
82.5°	6694.8	8406.3	8628.8	10167.2	4480.6	2890.0	678.6	379.1
85°	2620.8	4054.8	3420.2	3859.7	1258.2	804.9	16.5	0.0
87.5°	294.0	469.8	431.3	340.6	153.9	33.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)