

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: P969739

Luminaire Tested: **NAV-SB6A-722-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969739
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-SB6A-722-U-SLL-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2200K, 350mA 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: 17578.7 lumens
Efficiency: N/A
Efficacy: 102.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

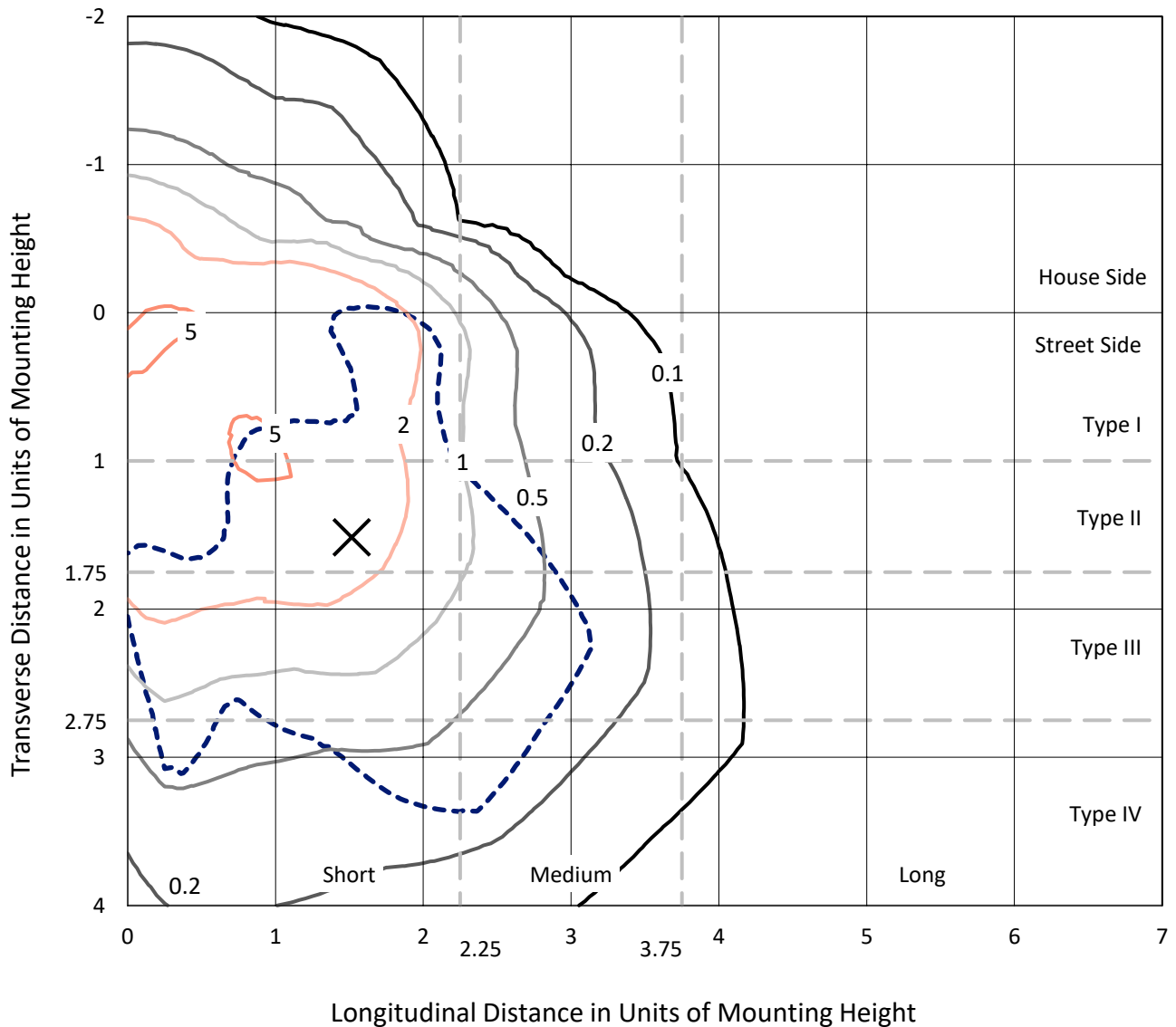
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

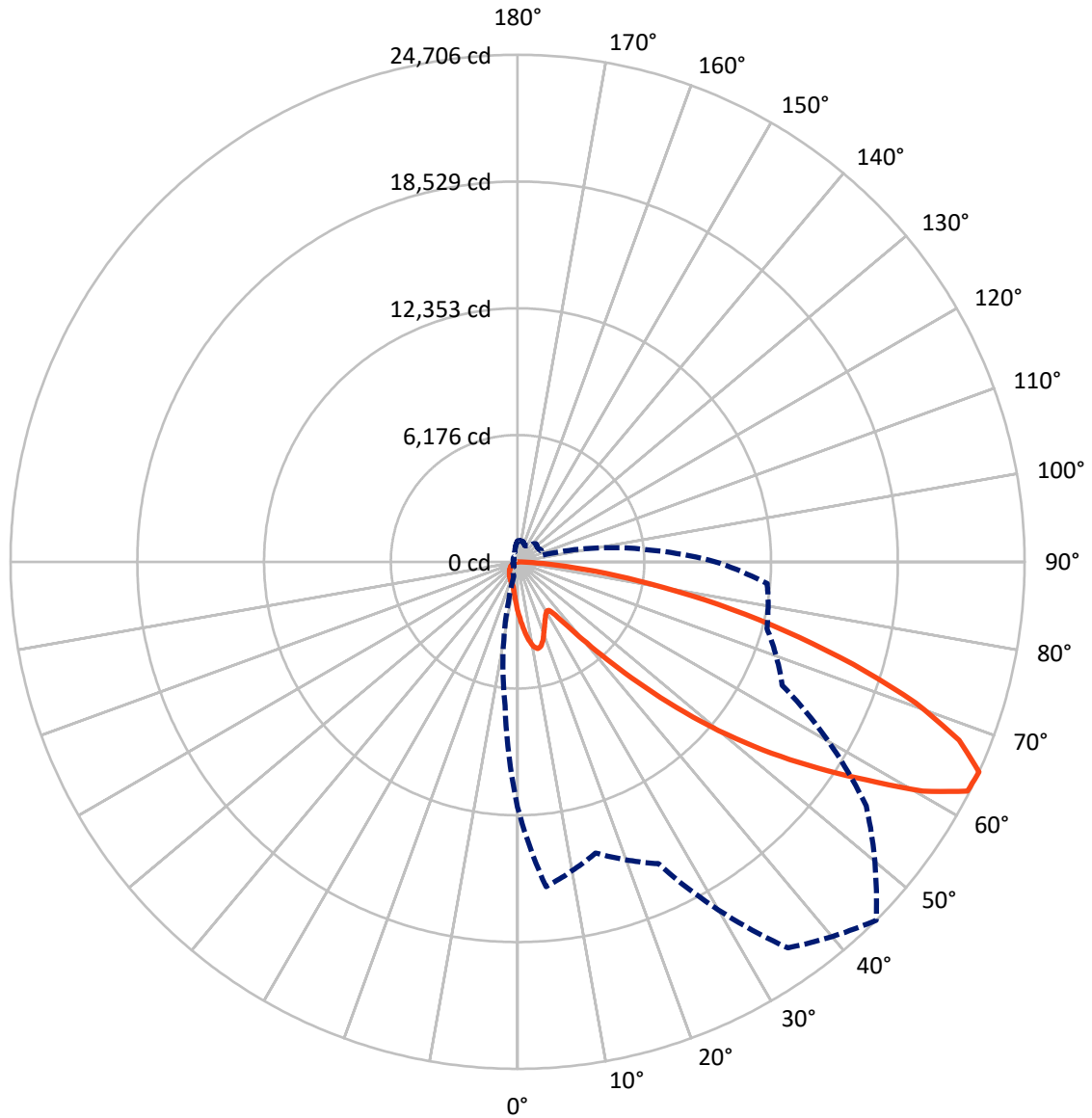
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3494.1	0.0	3494.1
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	14084.6	0.0	14084.6
	% Fixture	80.1	0.0	80.1
Total	Lumens	17578.7	0.0	17578.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.6	1.4
10°-20°	718.4	4.1
20°-30°	1058.3	6.0
30°-40°	1359.7	7.7
40°-50°	2199.0	12.5
50°-60°	3856.1	21.9
60°-70°	4825.1	27.4
70°-80°	2819.5	16.0
80°-90°	503.0	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°	17578.7	100.0
0°-180°	17578.7	100.0

Coefficient of Utilization



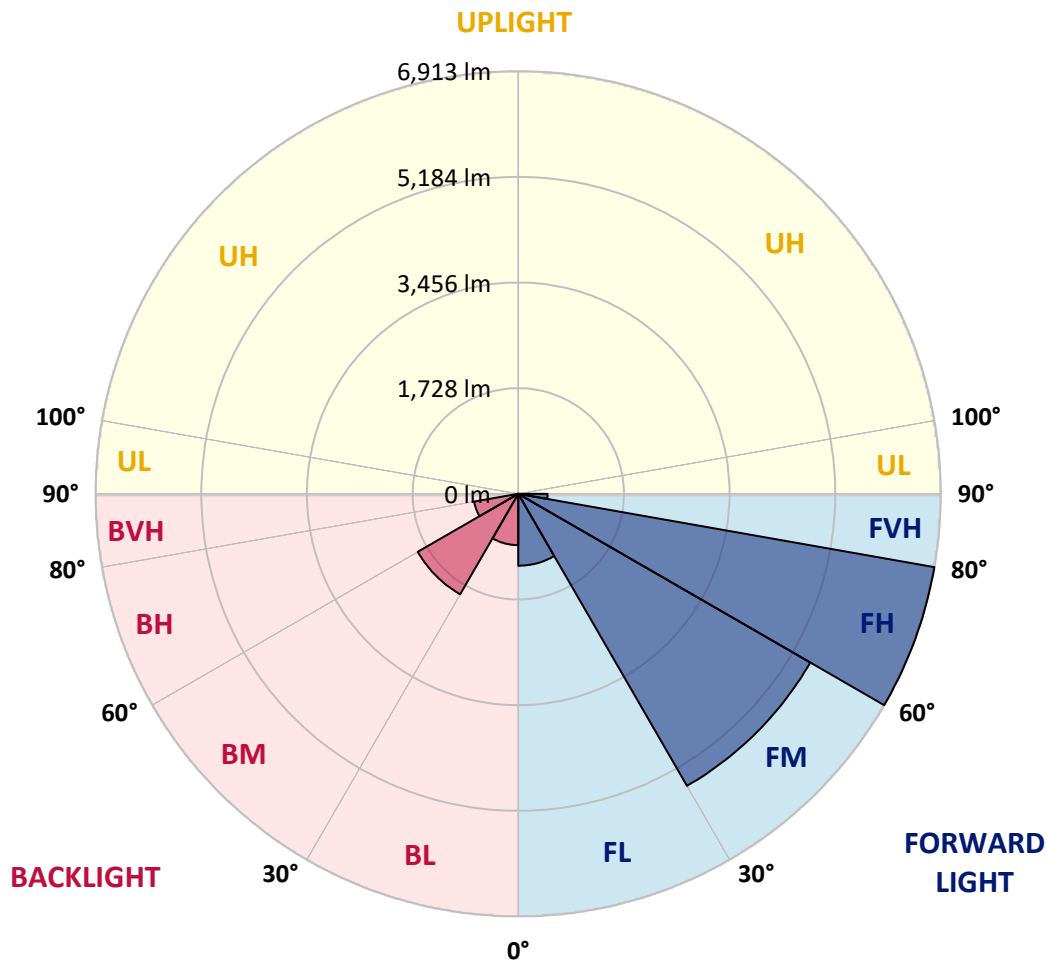
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1176.2	6.7			
FM (30°-60°)	5516.4	31.4			
FH (60°-80°)	6912.5	39.3			G3/7500
FVH (80°-90°)	479.5	2.7			G3/500
BL (0°-30°)	840.1	4.8	B2/1000		
BM (30°-60°)	1898.3	10.8	B2/2500		
BH (60°-80°)	732.1	4.2	B2/1000		G2/1000
BVH (80°-90°)	23.6	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2434.1	2434.1	2434.1	2434.1	2434.1	2434.1	2434.1	2434.1	2434.1	2434.1	2434.1
2.5°	2727.1	2747.7	2793.7	2817.9	2855.5	2857.9	2857.9	2825.2	2824.1	2757.5	2750.2
5°	3048.0	3096.5	3205.5	3318.1	3342.3	3348.4	3336.3	3270.9	3222.5	3092.8	3065.1
7.5°	3366.5	3459.8	3625.7	3775.9	3824.3	3824.3	3795.3	3688.7	3589.3	3401.7	3331.5
10°	3630.6	3748.0	3973.3	4141.6	4197.3	4185.2	4125.8	3991.5	3854.6	3627.0	3534.9
12.5°	3804.9	3936.9	4183.9	4319.7	4376.5	4345.1	4277.2	4146.4	4002.3	3762.6	3658.4
15°	3892.1	4030.2	4244.5	4316.0	4300.2	4267.6	4259.1	4196.0	4087.1	3863.0	3749.2
17.5°	3929.6	4058.1	4207.0	4162.2	4029.0	4003.5	4088.3	4168.3	4141.6	3950.2	3843.6
20°	3964.8	4072.5	4117.3	3918.8	3686.3	3663.2	3825.5	4053.2	4169.5	4031.4	3933.3
22.5°	4013.2	4079.8	3987.8	3662.0	3411.4	3358.1	3537.3	3880.0	4177.9	4134.3	4036.2
25°	4079.8	4098.0	3844.9	3418.6	3166.7	3113.4	3280.6	3687.4	4163.3	4245.8	4162.2
27.5°	4159.8	4122.2	3708.0	3215.2	2971.8	2922.2	3089.2	3502.2	4122.2	4357.2	4297.8
30°	4263.9	4153.7	3572.4	3057.8	2832.5	2796.2	2957.2	3342.3	4071.4	4498.8	4466.1
32.5°	4369.3	4167.0	3446.5	2965.7	2801.0	2814.3	2946.4	3256.3	4015.6	4634.4	4650.2
35°	4483.0	4209.4	3384.8	3056.5	3063.8	3180.1	3234.6	3336.3	4007.1	4818.5	4880.3
37.5°	4638.1	4303.9	3458.6	3508.3	3760.1	4001.1	3956.3	3727.4	4105.2	5093.4	5208.4
40°	4861.0	4469.8	3780.7	4277.2	4794.3	5185.5	5014.7	4438.2	4405.6	5489.4	5661.4
42.5°	5185.5	4733.8	4352.4	5216.9	6093.7	6737.9	6280.2	5355.0	4931.2	6055.0	6274.1
45°	5665.1	5161.3	5043.8	6208.7	7695.9	8710.7	7758.8	6332.2	5667.4	6911.2	7083.1
47.5°	6329.9	5789.7	5691.6	7253.8	9643.1	10955.8	9398.5	7238.1	6505.5	8078.5	8118.5
50°	7212.7	6636.3	6305.6	8397.0	11778.1	13244.6	11037.0	8112.5	7465.8	9505.0	9459.1
52.5°	8377.6	7817.0	7021.4	9485.7	13973.6	15485.0	12682.7	8880.2	8657.4	11160.5	11066.0
55°	9966.5	9593.5	7999.8	10524.7	16167.9	17738.6	14264.3	9604.4	10231.7	13127.2	12555.5
57.5°	11938.0	12204.4	9410.6	11729.7	18140.7	20061.3	15853.1	10616.7	12275.8	15326.3	13420.2
60°	13209.5	15676.2	12112.3	13511.0	20382.2	22688.0	18030.5	12542.2	14424.1	16114.6	13255.5
62.5°	12901.9	16780.7	15348.1	15785.3	22443.3	24597.6	20164.2	14476.2	14828.6	14953.3	11986.3
65°	11958.6	15889.4	14688.1	16227.3	22965.2	24705.5	20734.6	14226.7	12578.6	12208.1	9634.7
67.5°	10660.4	14832.3	13119.9	15055.1	22021.9	23198.9	19672.6	12584.6	9720.6	9161.1	6989.9
70°	9259.2	13662.4	12090.6	13739.9	20223.6	20573.6	17867.0	11068.5	7149.7	6187.0	4485.5
72.5°	7929.6	12444.1	11385.7	12392.0	17824.5	17100.4	15516.4	9727.9	5206.1	4462.5	3188.6
75°	6569.6	10647.1	10381.8	10791.2	14670.0	13469.8	12892.2	8054.3	4085.9	3228.5	2200.4
77.5°	5069.2	8319.5	8929.9	8641.7	10326.2	10005.2	9993.1	6052.5	2985.1	2154.3	1379.3
80°	3469.5	5798.2	6976.6	6096.1	6701.7	6538.2	7526.3	4060.4	2165.2	1296.9	767.7
82.5°	2039.3	3530.0	4856.0	2951.2	3705.7	3803.8	4481.9	1975.2	1274.0	299.1	167.1
85°	827.1	1393.9	1898.8	1155.3	1787.4	1507.7	1701.4	554.6	354.9	7.3	0.0
87.5°	208.3	445.7	312.4	129.6	207.0	190.1	150.2	67.9	14.6	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°	2434.1	2434.1	2434.1	2434.1	2434.1	2434.1	2434.1	2434.1	2434.1	2434.1	2434.1
2.5°	2702.9	2675.0	2606.1	2537.0	2481.3	2406.3	2356.6	2297.2	2240.3	2189.5	2179.8
5°	2988.7	2896.6	2770.8	2655.7	2538.2	2424.4	2311.8	2193.1	2084.1	2017.5	1975.2
7.5°	3221.3	3059.0	2891.8	2745.4	2603.6	2470.5	2321.5	2177.4	2006.6	1915.8	1833.4
10°	3394.4	3181.3	2962.0	2793.7	2650.9	2521.3	2395.3	2250.0	2044.2	1930.3	1806.8
12.5°	3508.3	3255.2	2998.4	2805.8	2646.0	2545.5	2489.8	2432.8	2228.2	2095.0	1915.8
15°	3587.0	3307.3	3023.9	2778.1	2581.9	2508.0	2563.6	2629.0	2498.2	2344.5	2110.8
17.5°	3673.0	3375.0	3034.7	2702.9	2457.1	2425.7	2569.7	2721.1	2715.0	2562.5	2333.6
20°	3763.8	3434.4	3027.4	2581.9	2305.7	2333.6	2517.6	2693.3	2767.1	2684.8	2481.3
22.5°	3857.0	3491.3	2999.7	2424.4	2164.1	2251.2	2435.3	2589.1	2676.3	2650.9	2495.9
25°	3974.4	3571.2	2958.5	2254.9	2046.6	2167.7	2339.7	2464.4	2524.9	2523.8	2417.2
27.5°	4115.0	3677.8	2936.6	2118.1	1963.0	2073.3	2225.8	2337.2	2379.6	2379.6	2294.9
30°	4278.5	3803.8	2912.4	2028.4	1914.6	1975.2	2093.8	2202.8	2245.2	2245.2	2173.7
32.5°	4460.1	3924.8	2854.3	1973.9	1878.2	1879.4	1954.6	2053.8	2104.7	2112.0	2061.1
35°	4678.1	4054.4	2727.1	1930.3	1835.9	1786.2	1822.6	1904.9	1965.4	1981.2	1949.7
37.5°	4963.9	4213.1	2545.5	1866.1	1770.5	1688.1	1696.6	1759.6	1826.1	1850.4	1829.8
40°	5347.7	4399.5	2356.6	1774.1	1678.4	1580.3	1576.8	1622.8	1688.1	1714.7	1703.9
42.5°	5855.1	4623.6	2176.2	1685.7	1567.0	1466.5	1460.4	1496.8	1553.7	1581.6	1576.8
45°	6504.2	4898.5	2021.1	1616.6	1458.1	1358.7	1356.3	1386.6	1436.2	1465.3	1459.3
47.5°	7406.4	5173.4	1915.8	1580.3	1372.1	1270.3	1275.2	1301.9	1346.6	1367.2	1358.7
50°	8582.3	5256.9	1862.5	1580.3	1326.0	1191.7	1215.9	1237.6	1271.5	1283.6	1272.7
52.5°	9711.0	4980.8	1814.0	1590.1	1332.1	1125.0	1177.1	1192.8	1221.9	1226.7	1211.0
55°	10264.3	4282.0	1747.4	1592.4	1369.6	1068.0	1145.6	1174.6	1185.5	1184.4	1157.7
57.5°	10074.2	3462.2	1634.9	1582.8	1395.0	1031.8	1106.9	1162.6	1169.8	1159.0	1109.3
60°	9406.9	2549.2	1548.9	1511.4	1385.4	1020.9	1047.6	1135.9	1146.8	1132.3	1051.1
62.5°	8288.0	1769.3	1482.3	1353.9	1343.0	1017.2	954.3	1077.8	1104.4	1083.8	965.1
65°	6524.8	1249.8	1276.4	1186.7	1250.9	997.8	857.4	1007.6	1043.9	1012.4	845.3
67.5°	4415.3	902.2	1034.2	1075.3	1102.0	954.3	787.1	927.6	976.1	934.9	706.0
70°	2384.5	633.3	683.0	905.8	936.1	879.1	724.2	846.4	902.2	857.4	575.2
72.5°	1408.4	455.3	478.4	727.9	779.9	773.9	653.9	752.0	819.8	766.6	467.4
75°	776.2	307.6	341.5	528.0	633.3	597.1	561.9	636.9	706.0	653.9	360.9
77.5°	347.6	184.1	237.4	346.3	497.7	409.3	434.7	496.5	560.7	506.1	241.0
80°	134.4	102.9	157.4	188.9	362.1	226.4	279.7	365.7	411.7	368.2	146.6
82.5°	16.9	46.0	67.9	73.9	210.7	119.9	162.3	230.1	226.4	196.2	73.9
85°	0.0	8.5	9.7	4.8	90.8	43.6	53.3	75.1	70.2	53.3	6.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	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°	2434.1	2434.1	2434.1	2434.1	2434.1	2434.1	2434.1	2434.1	2434.1	2434.1	2434.1
2.5°	2120.4	2076.9	2055.0	2036.9	2053.8	2063.5	2063.5	2104.7	2128.9	2138.7	2206.4
5°	1868.6	1787.4	1733.0	1700.3	1711.1	1723.2	1736.6	1788.6	1823.8	1846.7	1952.1
7.5°	1669.9	1546.4	1470.2	1430.2	1436.2	1444.7	1455.6	1506.4	1541.6	1571.8	1689.3
10°	1571.8	1397.5	1296.9	1248.6	1240.0	1235.2	1231.5	1261.9	1288.5	1312.7	1429.0
12.5°	1576.8	1333.3	1211.0	1151.7	1126.3	1097.2	1074.2	1079.0	1095.9	1126.3	1200.1
15°	1638.5	1312.7	1166.1	1092.3	1049.9	1016.0	988.2	982.2	988.2	993.0	1039.0
17.5°	1722.0	1310.3	1127.4	1035.4	991.8	963.9	938.5	930.1	931.2	937.3	949.5
20°	1788.6	1303.0	1083.8	980.9	942.2	917.9	892.5	884.1	886.4	887.6	901.0
22.5°	1823.8	1292.1	1035.4	926.4	893.7	869.5	846.4	845.3	845.3	852.5	862.2
25°	1823.8	1269.2	991.8	874.3	845.3	823.5	795.6	800.4	802.9	812.6	827.1
27.5°	1780.1	1225.5	956.7	829.5	799.3	777.5	752.0	758.1	761.7	772.6	790.8
30°	1724.5	1173.4	916.8	787.1	752.0	736.3	714.5	716.9	721.7	733.9	754.4
32.5°	1665.1	1111.7	884.1	744.8	709.6	697.5	673.3	676.9	681.8	695.2	718.1
35°	1599.7	1039.0	845.3	706.0	670.9	661.2	633.3	635.8	643.1	657.5	680.6
37.5°	1530.7	979.7	806.5	668.5	632.1	622.5	593.4	595.8	604.2	621.3	643.1
40°	1462.9	921.6	765.4	628.5	592.1	583.7	552.2	554.6	564.4	582.5	605.5
42.5°	1389.0	876.8	712.1	587.3	548.6	540.1	511.1	514.7	525.6	543.8	566.7
45°	1300.6	847.7	652.7	548.6	505.0	496.5	469.9	477.1	489.2	507.4	531.7
47.5°	1209.8	835.6	603.1	507.4	460.2	452.9	431.1	443.2	456.5	471.1	497.7
50°	1122.6	819.8	552.2	468.6	421.4	414.2	399.6	415.3	428.7	442.0	467.4
52.5°	1023.3	786.0	506.1	434.7	388.7	386.3	379.0	393.6	405.7	417.8	439.6
55°	920.3	731.4	466.3	404.5	360.9	363.3	359.7	371.8	381.5	392.4	411.7
57.5°	830.8	662.5	434.7	371.8	336.6	343.9	339.1	345.1	351.2	364.5	380.3
60°	739.9	580.0	399.6	333.0	312.4	320.9	307.6	306.4	308.8	312.4	341.5
62.5°	617.6	494.0	356.0	299.1	285.8	289.5	264.0	244.7	244.7	248.3	291.8
65°	496.5	414.2	307.6	260.3	249.5	247.0	210.7	184.1	181.6	192.6	230.1
67.5°	408.2	343.9	259.1	216.8	209.5	212.0	185.3	158.7	156.2	168.3	196.2
70°	337.8	277.4	207.0	167.1	174.4	185.3	158.7	133.2	129.6	140.4	167.1
72.5°	268.9	216.8	158.7	123.5	144.1	157.4	129.6	105.4	102.9	112.6	138.1
75°	197.4	155.0	107.7	89.6	111.4	123.5	94.5	75.1	71.4	79.9	105.4
77.5°	122.3	87.2	67.9	53.3	76.3	82.3	49.6	43.6	42.4	48.5	66.6
80°	56.9	37.5	32.7	18.1	27.9	32.7	20.6	23.0	24.2	29.1	41.2
82.5°	15.8	6.0	1.2	0.0	0.0	9.7	4.8	9.7	12.1	18.1	26.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	6.0	10.9	19.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	9.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P969739
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CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	2434.1	2434.1	2434.1	2434.1	2434.1	2434.1	2434.1	2434.1
2.5°	2257.3	2305.7	2383.2	2463.2	2541.9	2621.8	2699.3	2727.1
5°	2047.7	2159.2	2313.0	2477.7	2647.3	2819.2	2976.6	3048.0
7.5°	1814.0	1973.9	2205.2	2463.2	2733.2	3003.2	3251.5	3366.5
10°	1564.6	1766.8	2030.8	2379.6	2767.1	3140.1	3481.6	3630.6
12.5°	1327.3	1539.1	1831.1	2248.8	2740.4	3218.8	3629.3	3804.9
15°	1128.6	1316.3	1631.2	2093.8	2654.5	3223.6	3699.5	3892.1
17.5°	979.7	1102.0	1427.7	1921.9	2541.9	3178.8	3723.8	3929.6
20°	905.8	939.7	1163.8	1701.4	2436.5	3136.5	3748.0	3964.8
22.5°	862.2	870.7	951.8	1416.9	2310.6	3123.2	3790.4	4013.2
25°	827.1	829.5	851.4	1122.6	2118.1	3114.7	3855.8	4079.8
27.5°	792.0	792.0	804.1	904.6	1856.5	3078.4	3940.6	4159.8
30°	756.9	756.9	765.4	800.4	1550.1	3006.9	4042.3	4263.9
32.5°	720.6	720.6	727.9	753.3	1237.6	2917.3	4135.6	4369.3
35°	684.2	681.8	691.5	718.1	984.5	2803.5	4228.7	4483.0
37.5°	645.4	644.2	653.9	684.2	850.1	2671.5	4299.1	4638.1
40°	604.2	604.2	615.2	647.9	811.4	2505.5	4410.5	4861.0
42.5°	566.7	564.4	576.5	616.4	782.3	2346.9	4610.2	5185.5
45°	530.4	525.6	536.5	586.1	731.4	2291.2	4983.2	5665.1
47.5°	496.5	484.4	494.0	549.8	685.4	2499.5	5593.5	6329.9
50°	468.6	445.7	454.1	513.4	650.3	2951.2	6385.5	7212.7
52.5°	439.6	409.3	414.2	468.6	618.8	3381.1	7244.2	8377.6
55°	409.3	375.5	377.8	423.8	574.0	3445.2	8082.1	9966.5
57.5°	375.5	343.9	343.9	382.6	541.3	2986.3	8726.4	11938.0
60°	337.8	317.2	311.2	349.9	570.4	2107.1	8801.5	13209.5
62.5°	296.7	285.8	277.4	318.5	592.1	1248.6	8197.2	12901.9
65°	249.5	247.0	241.0	349.9	499.0	737.5	7037.0	11958.6
67.5°	209.5	205.8	205.8	367.0	379.0	463.8	5497.9	10660.4
70°	180.4	167.1	167.1	277.4	230.1	320.9	3838.8	9259.2
72.5°	151.4	136.8	127.2	221.6	172.0	234.9	2399.0	7929.6
75°	121.1	110.2	98.1	146.6	128.3	178.0	1393.9	6569.6
77.5°	87.2	82.3	69.0	107.7	93.3	128.3	829.5	5069.2
80°	44.8	46.0	43.6	61.8	62.9	87.2	472.3	3469.5
82.5°	26.6	20.6	23.0	30.2	36.3	49.6	178.0	2039.3
85°	16.9	10.9	10.9	14.6	18.1	19.4	54.5	827.1
87.5°	8.5	3.6	4.8	7.3	6.0	4.8	2.5	208.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)