

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: P964531

Luminaire Tested: **NAV-SB3C-730-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964531
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-SB3C-730-U-SLL-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3000K, 615mA 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: 17577.7 lumens
Efficiency: N/A
Efficacy: 117.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

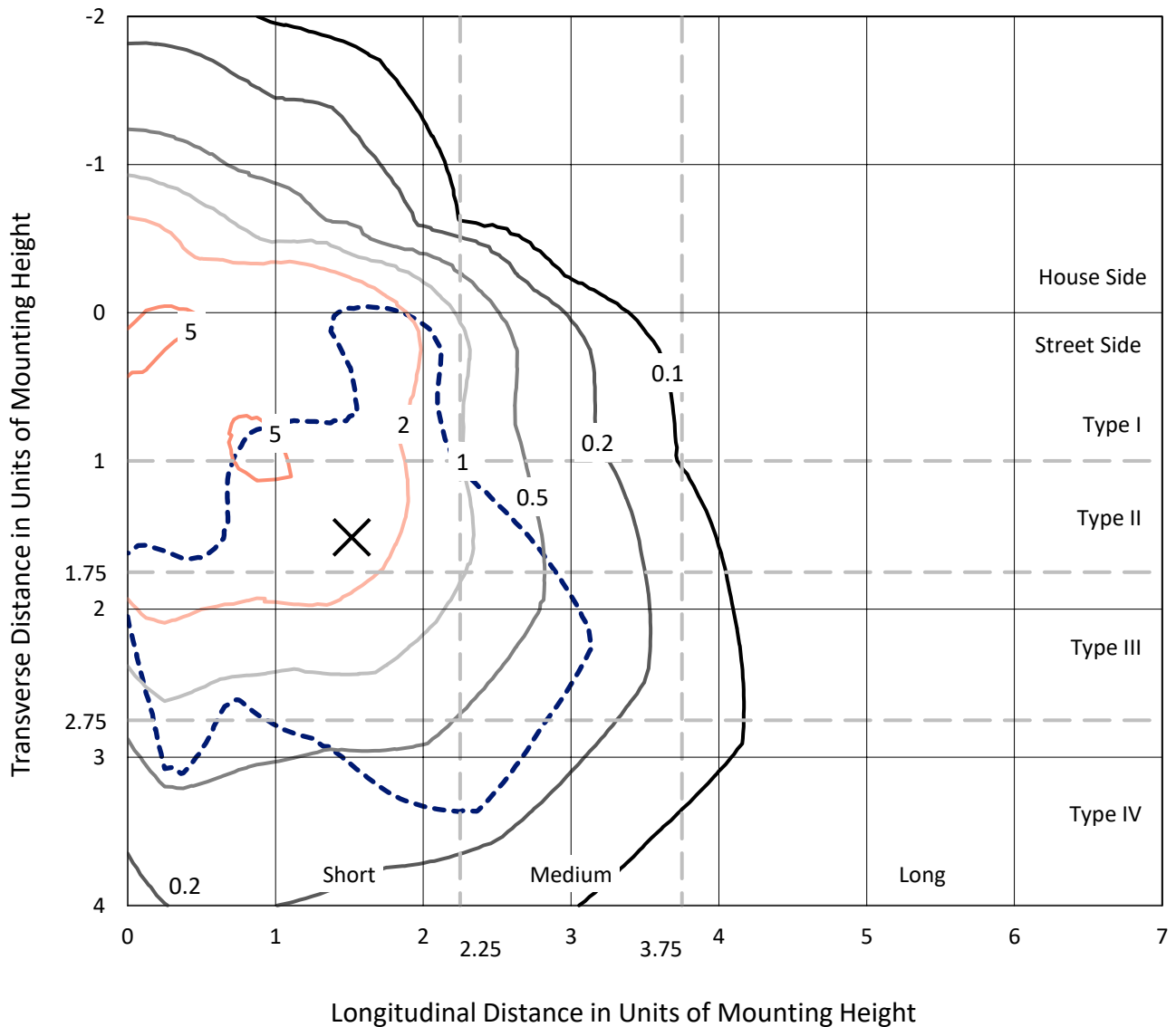
Input Watts (W): 149.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

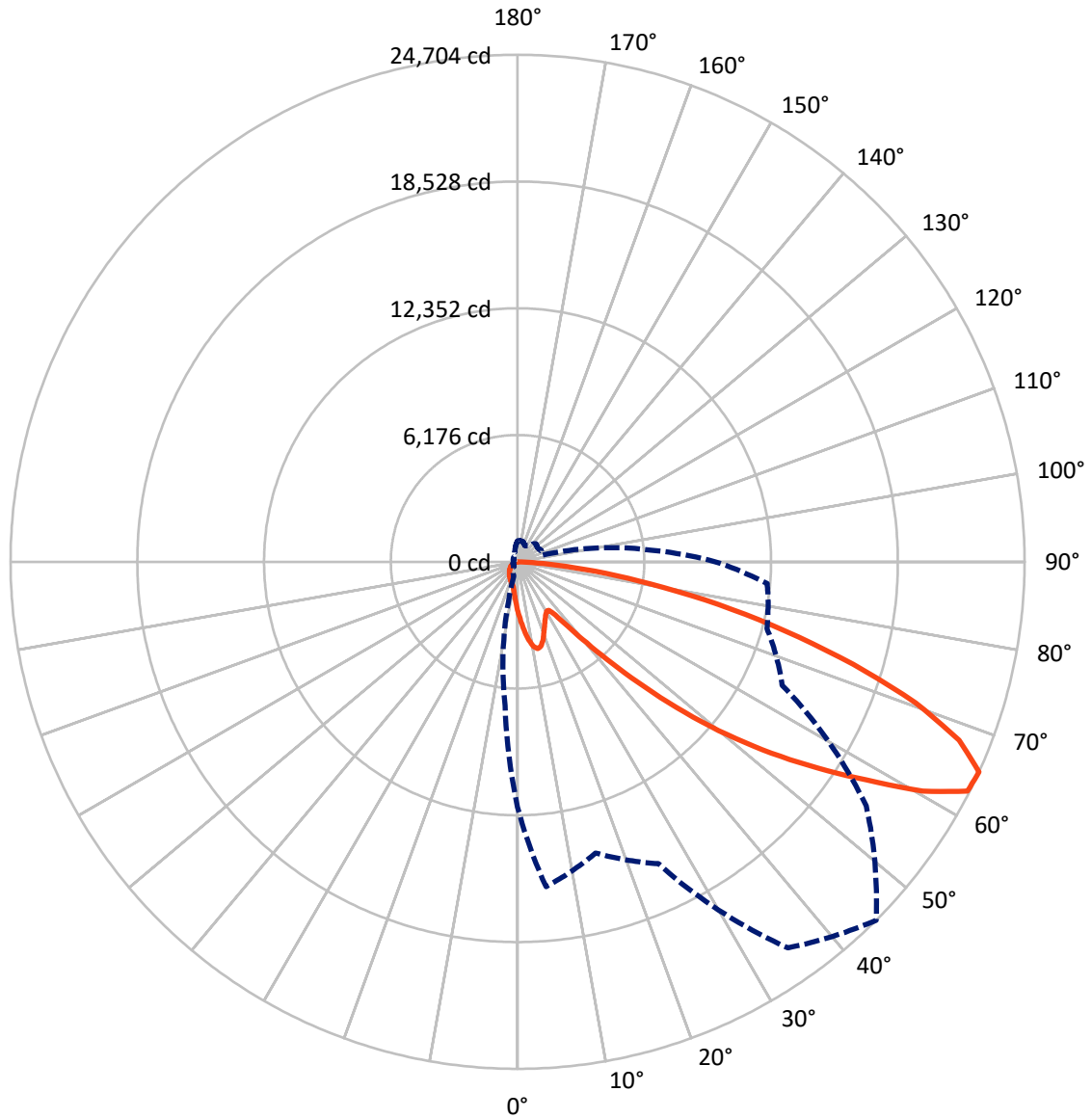
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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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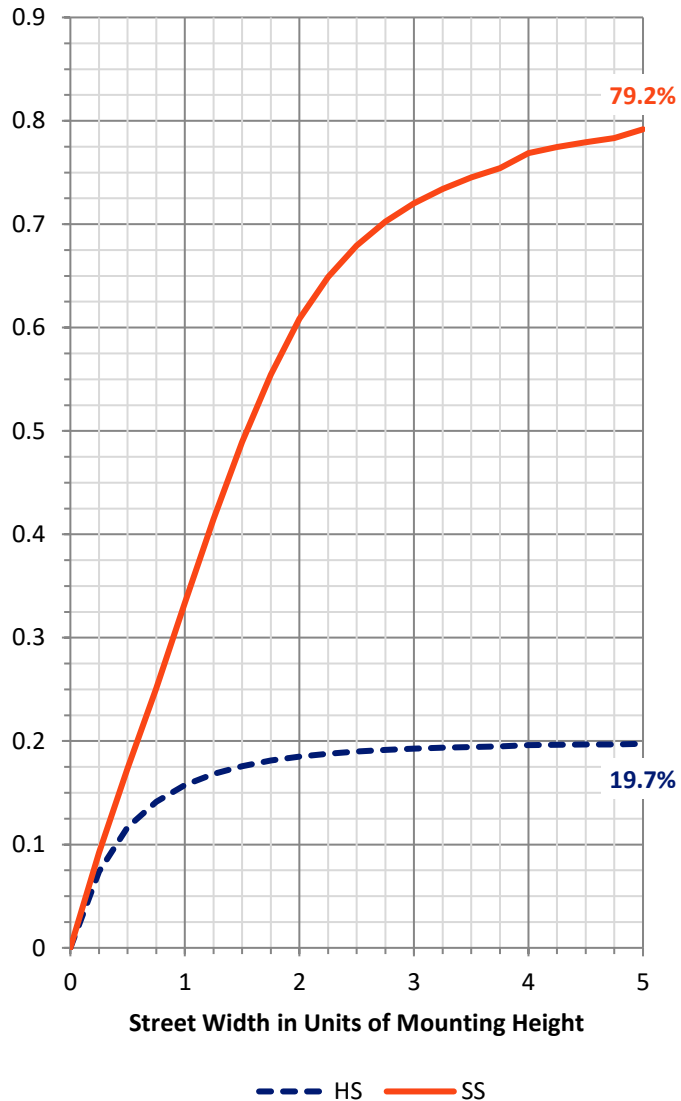
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3493.9	0.0	3493.9
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	14083.8	0.0	14083.8
	% Fixture	80.1	0.0	80.1
Total	Lumens	17577.7	0.0	17577.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.6	1.4
10°-20°	718.3	4.1
20°-30°	1058.3	6.0
30°-40°	1359.6	7.7
40°-50°	2198.8	12.5
50°-60°	3855.9	21.9
60°-70°	4824.8	27.4
70°-80°	2819.4	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°	17577.7	100.0
0°-180°	17577.7	100.0

Coefficient of Utilization



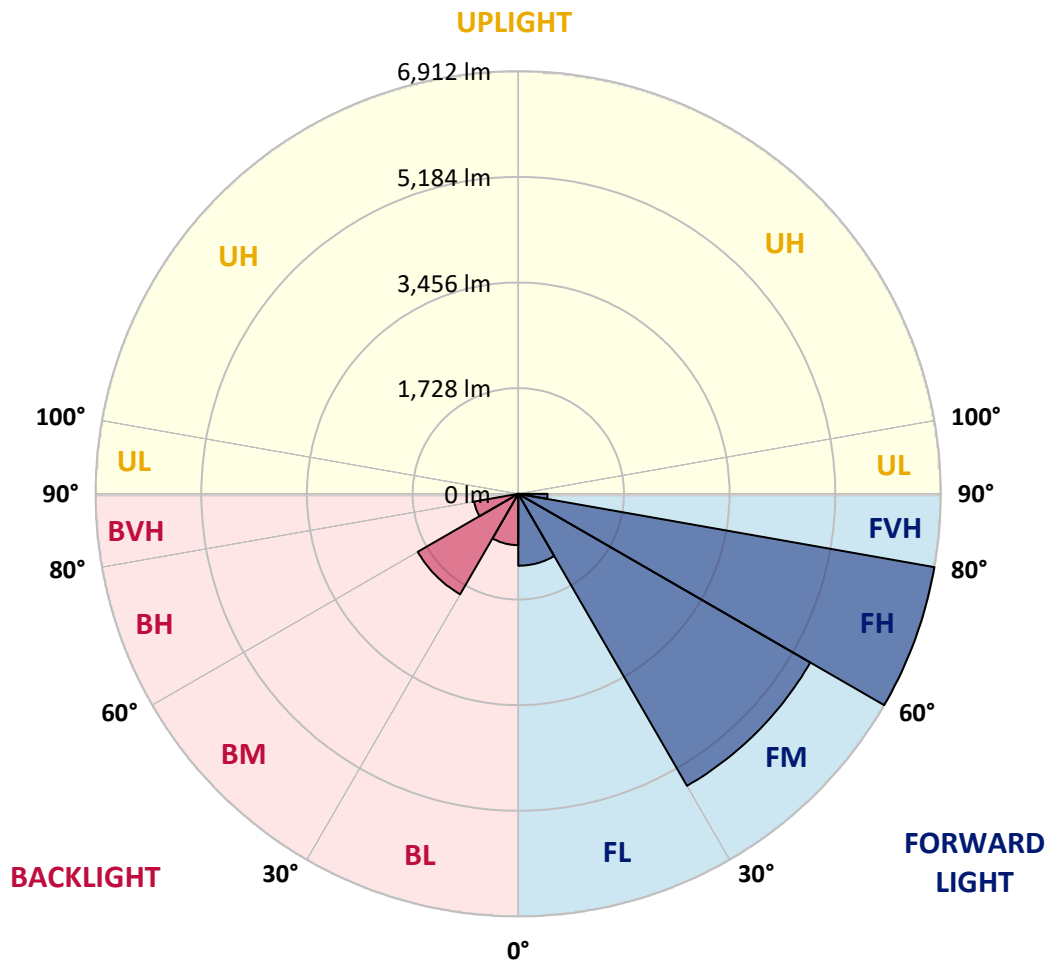
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1176.2	6.7			
FM	(30°-60°)	5516.1	31.4			
FH	(60°-80°)	6912.1	39.3			G3/7500
FVH	(80°-90°)	479.4	2.7			G3/500
BL	(0°-30°)	840.1	4.8	B2/1000		
BM	(30°-60°)	1898.2	10.8	B2/2500		
BH	(60°-80°)	732.0	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°	2434.0	2434.0	2434.0	2434.0	2434.0	2434.0	2434.0	2434.0	2434.0	2434.0	2434.0
2.5°	2727.0	2747.6	2793.6	2817.8	2855.3	2857.8	2857.8	2825.1	2823.9	2757.2	2750.0
5°	3047.9	3096.3	3205.3	3317.9	3342.1	3348.2	3336.1	3270.7	3222.3	3092.7	3064.9
7.5°	3366.4	3459.6	3625.5	3775.7	3824.1	3824.1	3795.1	3688.5	3589.1	3401.5	3331.2
10°	3630.3	3747.8	3973.0	4141.3	4197.1	4185.0	4125.6	3991.2	3854.4	3626.8	3534.7
12.5°	3804.7	3936.7	4183.7	4319.3	4376.2	4344.8	4277.0	4146.2	4002.1	3762.4	3658.2
15°	3891.9	4030.0	4244.3	4315.8	4300.0	4267.3	4258.8	4195.8	4086.9	3862.8	3749.0
17.5°	3929.4	4057.8	4206.7	4161.9	4028.8	4003.3	4088.1	4168.0	4141.3	3950.0	3843.4
20°	3964.6	4072.3	4117.1	3918.6	3686.0	3663.0	3825.3	4053.0	4169.2	4031.1	3933.0
22.5°	4013.0	4079.6	3987.6	3661.8	3411.2	3357.9	3537.1	3879.8	4177.7	4134.1	4036.0
25°	4079.6	4097.7	3844.7	3418.5	3166.5	3113.2	3280.4	3687.2	4163.1	4245.4	4161.9
27.5°	4159.6	4121.9	3707.8	3215.0	2971.6	2922.0	3089.0	3502.0	4121.9	4356.9	4297.5
30°	4263.7	4153.5	3572.2	3057.6	2832.4	2796.0	2957.0	3342.1	4071.1	4498.6	4465.9
32.5°	4369.0	4166.8	3446.3	2965.5	2800.8	2814.1	2946.2	3256.1	4015.4	4634.2	4649.9
35°	4482.8	4209.2	3384.6	3056.3	3063.6	3179.9	3234.4	3336.1	4006.9	4818.2	4880.0
37.5°	4637.8	4303.6	3458.4	3508.1	3759.9	4000.9	3956.1	3727.2	4105.0	5093.1	5208.1
40°	4860.7	4469.5	3780.5	4277.0	4794.0	5185.2	5014.4	4438.0	4405.3	5489.1	5661.1
42.5°	5185.2	4733.4	4352.0	5216.6	6093.3	6737.5	6279.9	5354.7	4930.9	6054.6	6273.8
45°	5664.7	5161.0	5043.5	6208.4	7695.4	8710.1	7758.3	6331.9	5667.1	6910.8	7082.6
47.5°	6329.5	5789.4	5691.3	7253.4	9642.6	10955.2	9397.9	7237.6	6505.1	8078.0	8118.0
50°	7212.2	6635.8	6305.3	8396.5	11777.5	13243.8	11036.4	8112.0	7465.4	9504.5	9458.5
52.5°	8377.1	7816.5	7020.9	9485.1	13972.8	15484.1	12682.0	8879.7	8656.8	11159.9	11065.4
55°	9965.9	9592.9	7999.3	10524.1	16167.0	17737.6	14263.5	9603.8	10231.0	13126.4	12554.8
57.5°	11937.3	12203.6	9410.1	11729.0	18139.6	20060.2	15852.1	10616.1	12275.1	15325.4	13419.4
60°	13208.8	15675.4	12111.6	13510.2	20381.0	22686.6	18029.4	12541.5	14423.3	16113.7	13254.8
62.5°	12901.2	16779.8	15347.2	15784.4	22442.0	24596.2	20163.1	14475.4	14827.8	14952.5	11985.7
65°	11957.9	15888.5	14687.2	16226.4	22963.9	24704.0	20733.4	14225.9	12577.9	12207.3	9634.1
67.5°	10659.7	14831.3	13119.1	15054.2	22020.6	23197.6	19671.4	12583.9	9720.1	9160.6	6989.5
70°	9258.7	13661.6	12089.9	13739.1	20222.4	20572.4	17866.0	11067.8	7149.3	6186.6	4485.3
72.5°	7929.1	12443.4	11385.1	12391.3	17823.5	17099.5	15515.5	9727.4	5205.8	4462.2	3188.4
75°	6569.2	10646.5	10381.2	10790.5	14669.1	13469.1	12891.4	8053.8	4085.6	3228.3	2200.3
77.5°	5068.9	8319.0	8929.3	8641.2	10325.5	10004.6	9992.5	6052.2	2984.9	2154.2	1379.2
80°	3469.3	5797.9	6976.2	6095.8	6701.2	6537.8	7525.9	4060.2	2165.1	1296.9	767.7
82.5°	2039.2	3529.8	4855.8	2951.0	3705.4	3803.5	4481.6	1975.0	1273.9	299.1	167.1
85°	827.1	1393.8	1898.7	1155.2	1787.3	1507.6	1701.3	554.6	354.8	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°	2434.0	2434.0	2434.0	2434.0	2434.0	2434.0	2434.0	2434.0	2434.0	2434.0	2434.0
2.5°	2702.8	2674.9	2605.9	2536.9	2481.2	2406.1	2356.5	2297.1	2240.2	2189.3	2179.7
5°	2988.6	2896.5	2770.6	2655.6	2538.1	2424.2	2311.7	2193.0	2084.0	2017.4	1975.0
7.5°	3221.1	3058.8	2891.7	2745.2	2603.5	2470.2	2321.3	2177.2	2006.5	1915.7	1833.3
10°	3394.2	3181.1	2961.9	2793.6	2650.8	2521.1	2395.2	2249.9	2044.1	1930.2	1806.7
12.5°	3508.1	3255.0	2998.2	2805.7	2645.8	2545.4	2489.6	2432.7	2228.1	2094.9	1915.7
15°	3586.8	3307.1	3023.6	2777.9	2581.7	2507.9	2563.5	2628.9	2498.1	2344.4	2110.7
17.5°	3672.7	3374.8	3034.6	2702.8	2456.9	2425.5	2569.6	2721.0	2714.9	2562.3	2333.4
20°	3763.6	3434.2	3027.3	2581.7	2305.6	2333.4	2517.5	2693.1	2767.0	2684.6	2481.2
22.5°	3856.8	3491.0	2999.5	2424.2	2163.9	2251.1	2435.2	2588.9	2676.2	2650.8	2495.7
25°	3974.2	3571.0	2958.3	2254.7	2046.4	2167.6	2339.5	2464.2	2524.8	2523.5	2417.0
27.5°	4114.8	3677.6	2936.5	2117.9	1962.9	2073.1	2225.7	2337.1	2379.4	2379.4	2294.7
30°	4278.1	3803.5	2912.2	2028.3	1914.5	1975.0	2093.7	2202.6	2245.1	2245.1	2173.6
32.5°	4459.8	3924.6	2854.1	1973.8	1878.1	1879.3	1954.5	2053.7	2104.6	2111.8	2061.0
35°	4677.8	4054.2	2727.0	1930.2	1835.8	1786.1	1822.4	1904.8	1965.3	1981.0	1949.5
37.5°	4963.6	4212.8	2545.4	1866.0	1770.4	1688.1	1696.5	1759.5	1826.0	1850.3	1829.7
40°	5347.4	4399.3	2356.5	1774.0	1678.3	1580.2	1576.7	1622.7	1688.1	1714.6	1703.8
42.5°	5854.8	4623.3	2176.1	1685.6	1566.9	1466.5	1460.4	1496.7	1553.6	1581.5	1576.7
45°	6503.8	4898.2	2021.0	1616.6	1458.0	1358.6	1356.3	1386.5	1436.1	1465.2	1459.2
47.5°	7406.0	5173.1	1915.7	1580.2	1372.0	1270.3	1275.1	1301.8	1346.5	1367.1	1358.6
50°	8581.8	5256.6	1862.4	1580.2	1325.9	1191.6	1215.8	1237.6	1271.5	1283.6	1272.6
52.5°	9710.3	4980.5	1813.9	1590.0	1332.0	1124.9	1177.0	1192.8	1221.8	1226.6	1210.9
55°	10263.7	4281.8	1747.3	1592.3	1369.5	1068.0	1145.5	1174.5	1185.5	1184.3	1157.6
57.5°	10073.7	3462.0	1634.8	1582.7	1395.0	1031.7	1106.8	1162.5	1169.7	1158.9	1109.3
60°	9406.4	2549.0	1548.8	1511.3	1385.3	1020.8	1047.4	1135.8	1146.8	1132.2	1051.0
62.5°	8287.5	1769.2	1482.1	1353.8	1343.0	1017.2	954.2	1077.7	1104.3	1083.7	965.1
65°	6524.4	1249.7	1276.3	1186.7	1250.9	997.8	857.3	1007.5	1043.9	1012.3	845.2
67.5°	4415.0	902.1	1034.1	1075.3	1102.0	954.2	787.1	927.5	976.0	934.8	705.9
70°	2384.4	633.3	683.0	905.8	936.0	879.1	724.2	846.4	902.1	857.3	575.2
72.5°	1408.4	455.3	478.3	727.7	779.8	773.8	653.8	751.9	819.8	766.5	467.4
75°	776.2	307.6	341.5	528.0	633.3	597.0	561.9	636.9	705.9	653.8	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	362.0	226.4	279.7	365.7	411.7	368.1	146.5
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	75.0	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°	2434.0	2434.0	2434.0	2434.0	2434.0	2434.0	2434.0	2434.0	2434.0	2434.0	2434.0
2.5°	2120.3	2076.8	2054.9	2036.8	2053.7	2063.4	2063.4	2104.6	2128.8	2138.5	2206.3
5°	1868.5	1787.3	1732.9	1700.2	1711.0	1723.1	1736.5	1788.5	1823.7	1846.6	1952.0
7.5°	1669.8	1546.3	1470.1	1430.1	1436.1	1444.6	1455.5	1506.3	1541.5	1571.7	1689.2
10°	1571.7	1397.4	1296.9	1248.4	1239.9	1235.1	1231.5	1261.8	1288.4	1312.6	1428.8
12.5°	1576.7	1333.2	1210.9	1151.6	1126.2	1097.1	1074.1	1078.9	1095.9	1126.2	1200.1
15°	1638.4	1312.6	1166.1	1092.2	1049.9	1016.0	988.1	982.1	988.1	992.9	1038.9
17.5°	1721.9	1310.3	1127.4	1035.4	991.8	963.9	938.5	930.0	931.2	937.3	949.4
20°	1788.5	1303.0	1083.7	980.8	942.1	917.9	892.5	884.0	886.4	887.6	901.0
22.5°	1823.7	1292.0	1035.4	926.4	893.7	869.4	846.4	845.2	845.2	852.5	862.1
25°	1823.7	1269.1	991.8	874.3	845.2	823.4	795.6	800.4	802.9	812.5	827.1
27.5°	1780.0	1225.5	956.6	829.5	799.2	777.5	751.9	758.0	761.7	772.5	790.7
30°	1724.4	1173.4	916.7	787.1	751.9	736.3	714.4	716.9	721.7	733.8	754.4
32.5°	1665.0	1111.6	884.0	744.8	709.6	697.5	673.3	676.9	681.7	695.1	718.1
35°	1599.6	1038.9	845.2	705.9	670.9	661.1	633.3	635.7	643.0	657.5	680.5
37.5°	1530.6	979.6	806.5	668.4	632.1	622.4	593.4	595.7	604.2	621.3	643.0
40°	1462.8	921.5	765.3	628.4	592.1	583.6	552.2	554.6	564.3	582.4	605.5
42.5°	1389.0	876.7	712.1	587.3	548.6	540.1	511.0	514.7	525.5	543.7	566.7
45°	1300.5	847.7	652.7	548.6	504.9	496.5	469.9	477.1	489.2	507.4	531.6
47.5°	1209.7	835.6	603.0	507.4	460.1	452.8	431.1	443.2	456.5	471.1	497.7
50°	1122.5	819.8	552.2	468.6	421.4	414.1	399.6	415.3	428.7	442.0	467.4
52.5°	1023.3	785.9	506.1	434.7	388.7	386.3	379.0	393.6	405.7	417.8	439.5
55°	920.3	731.4	466.2	404.5	360.9	363.3	359.7	371.8	381.4	392.4	411.7
57.5°	830.7	662.4	434.7	371.8	336.6	343.9	339.1	345.1	351.2	364.5	380.3
60°	739.8	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	263.9	244.6	244.6	248.3	291.8
65°	496.5	414.1	307.6	260.3	249.5	247.0	210.7	184.1	181.6	192.5	230.1
67.5°	408.1	343.9	259.1	216.8	209.5	211.9	185.3	158.7	156.2	168.3	196.2
70°	337.8	277.3	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	94.4	75.0	71.4	79.9	105.4
77.5°	122.3	87.2	67.9	53.3	76.3	82.3	49.6	43.6	42.3	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: P964531
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CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	2434.0	2434.0	2434.0	2434.0	2434.0	2434.0	2434.0	2434.0
2.5°	2257.2	2305.6	2383.1	2463.0	2541.7	2621.6	2699.1	2727.0
5°	2047.6	2159.1	2312.8	2477.5	2647.1	2819.1	2976.4	3047.9
7.5°	1813.9	1973.8	2205.1	2463.0	2733.1	3003.0	3251.3	3366.4
10°	1564.6	1766.7	2030.7	2379.4	2767.0	3139.9	3481.4	3630.3
12.5°	1327.2	1539.0	1831.0	2248.6	2740.3	3218.6	3629.1	3804.7
15°	1128.6	1316.3	1631.1	2093.7	2654.3	3223.5	3699.3	3891.9
17.5°	979.6	1102.0	1427.7	1921.8	2541.7	3178.6	3723.6	3929.4
20°	905.8	939.7	1163.7	1701.3	2436.4	3136.3	3747.8	3964.6
22.5°	862.1	870.6	951.8	1416.8	2310.5	3123.0	3790.1	4013.0
25°	827.1	829.5	851.3	1122.5	2117.9	3114.5	3855.5	4079.6
27.5°	791.9	791.9	804.0	904.6	1856.4	3078.2	3940.3	4159.6
30°	756.9	756.9	765.3	800.4	1550.0	3006.7	4042.1	4263.7
32.5°	720.5	720.5	727.7	753.2	1237.6	2917.1	4135.3	4369.0
35°	684.2	681.7	691.5	718.1	984.5	2803.3	4228.5	4482.8
37.5°	645.4	644.2	653.8	684.2	850.0	2671.3	4298.7	4637.8
40°	604.2	604.2	615.1	647.8	811.3	2505.4	4410.2	4860.7
42.5°	566.7	564.3	576.4	616.3	782.3	2346.7	4609.9	5185.2
45°	530.3	525.5	536.5	586.1	731.4	2291.1	4982.9	5664.7
47.5°	496.5	484.4	494.0	549.7	685.4	2499.4	5593.2	6329.5
50°	468.6	445.7	454.1	513.4	650.3	2951.0	6385.2	7212.2
52.5°	439.5	409.3	414.1	468.6	618.8	3380.9	7243.8	8377.1
55°	409.3	375.4	377.8	423.8	574.0	3445.0	8081.7	9965.9
57.5°	375.4	343.9	343.9	382.6	541.3	2986.1	8725.9	11937.3
60°	337.8	317.2	311.2	349.9	570.3	2107.0	8801.0	13208.8
62.5°	296.6	285.8	277.3	318.5	592.1	1248.4	8196.7	12901.2
65°	249.5	247.0	241.0	349.9	498.9	737.5	7036.6	11957.9
67.5°	209.5	205.8	205.8	367.0	379.0	463.8	5497.6	10659.7
70°	180.4	167.1	167.1	277.3	230.1	320.9	3838.6	9258.7
72.5°	151.4	136.8	127.1	221.6	172.0	234.9	2398.8	7929.1
75°	121.1	110.2	98.1	146.5	128.3	178.0	1393.8	6569.2
77.5°	87.2	82.3	69.0	107.7	93.3	128.3	829.5	5068.9
80°	44.8	46.0	43.6	61.8	62.9	87.2	472.2	3469.3
82.5°	26.6	20.6	23.0	30.2	36.3	49.6	178.0	2039.2
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)