

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: P970266

Luminaire Tested: **NAV-SB6B-722-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970266
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-SB6B-722-U-SLL-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 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: 22066.2 lumens
Efficiency: N/A
Efficacy: 100.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

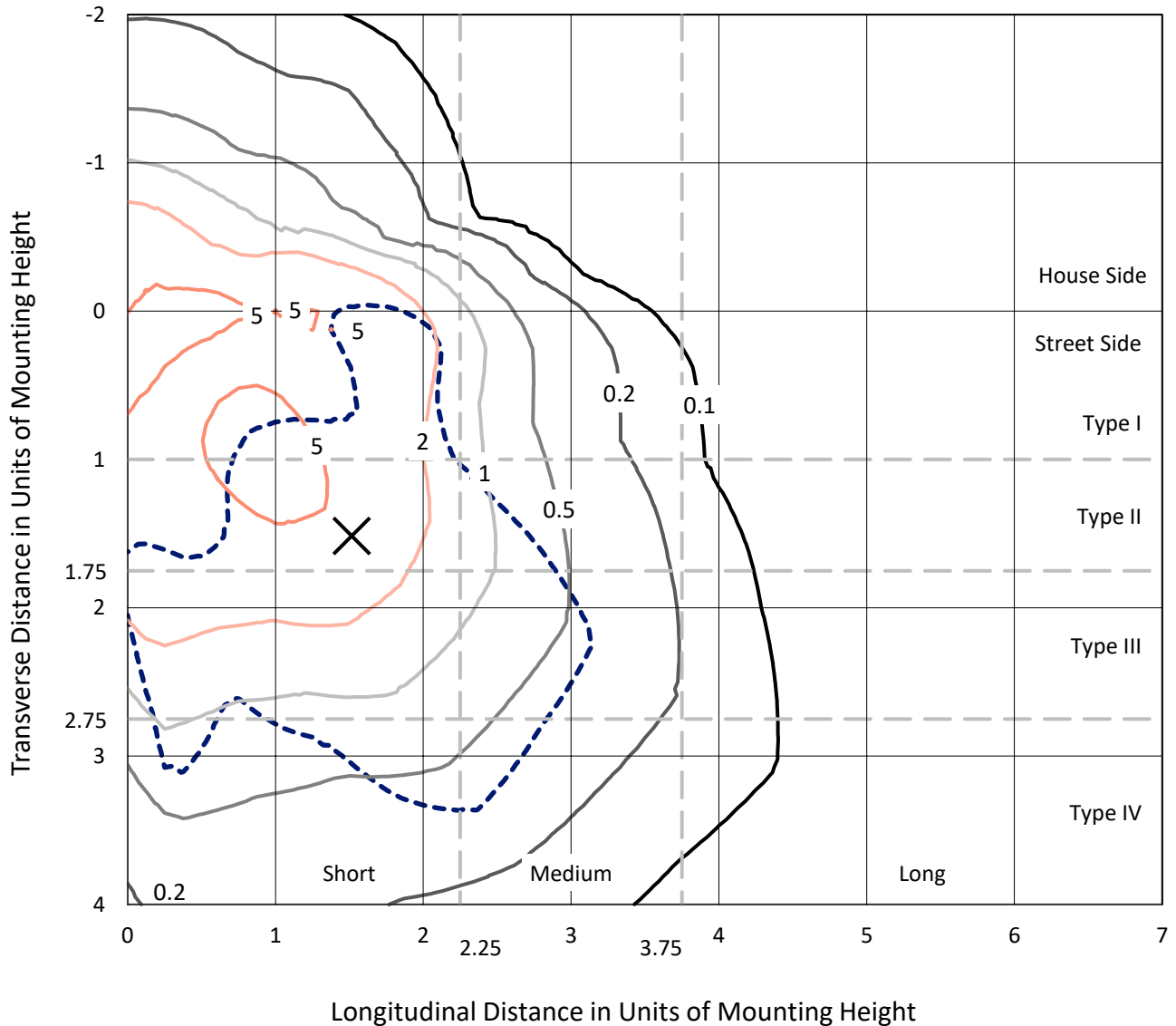
Input Watts (W): 220.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

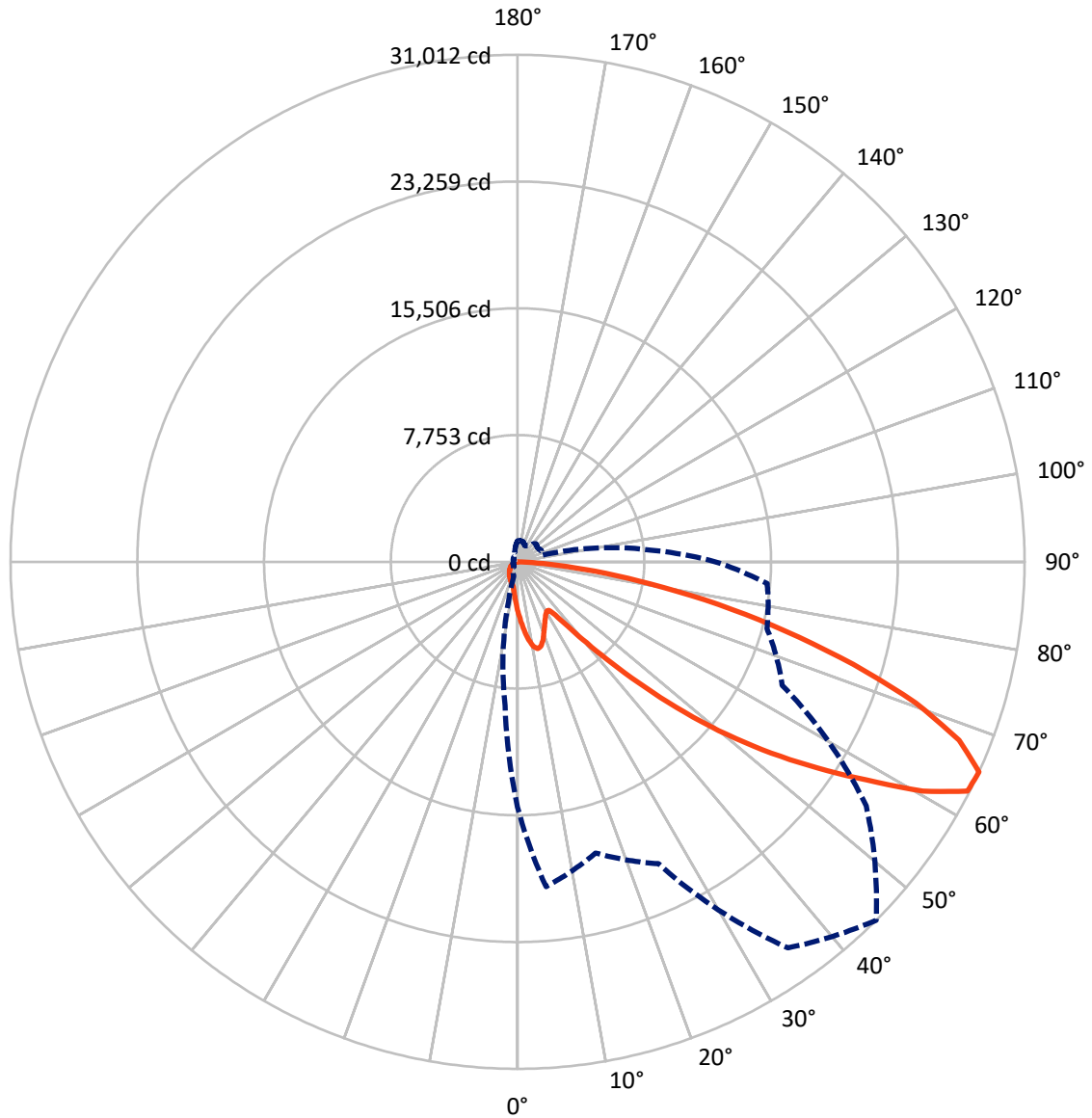
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 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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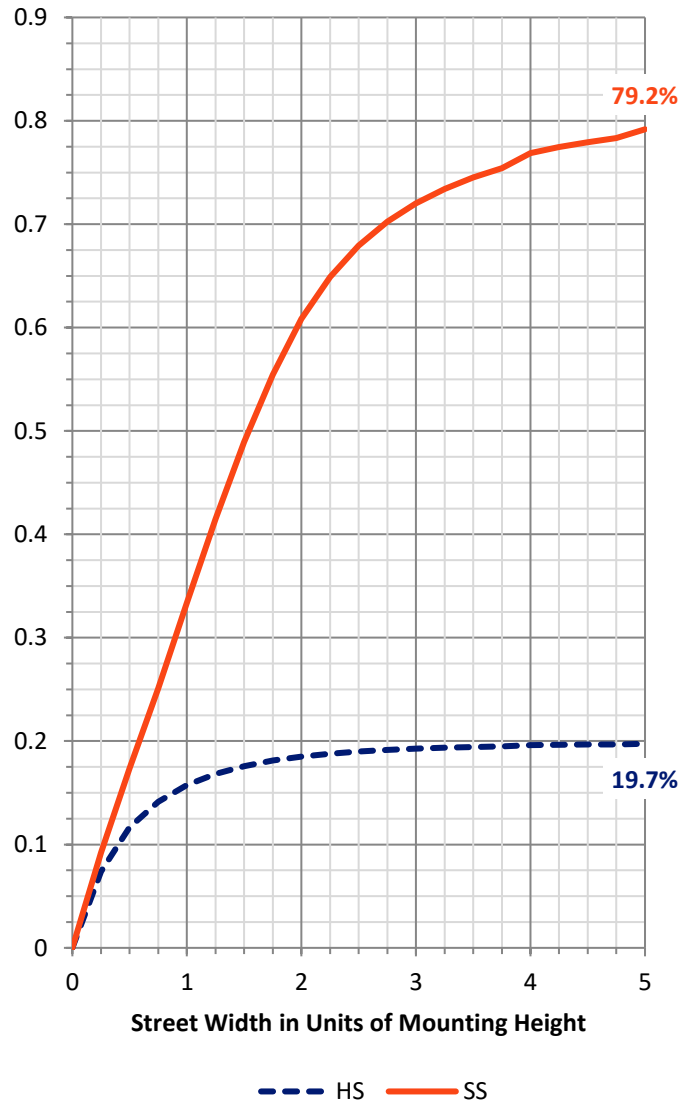
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4386.1	0.0	4386.1
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	17680.1	0.0	17680.1
	% Fixture	80.1	0.0	80.1
Total	Lumens	22066.2	0.0	22066.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	300.8	1.4
10°-20°	901.8	4.1
20°-30°	1328.5	6.0
30°-40°	1706.7	7.7
40°-50°	2760.3	12.5
50°-60°	4840.5	21.9
60°-70°	6056.8	27.4
70°-80°	3539.3	16.0
80°-90°	631.5	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°	22066.2	100.0
0°-180°	22066.2	100.0

Coefficient of Utilization



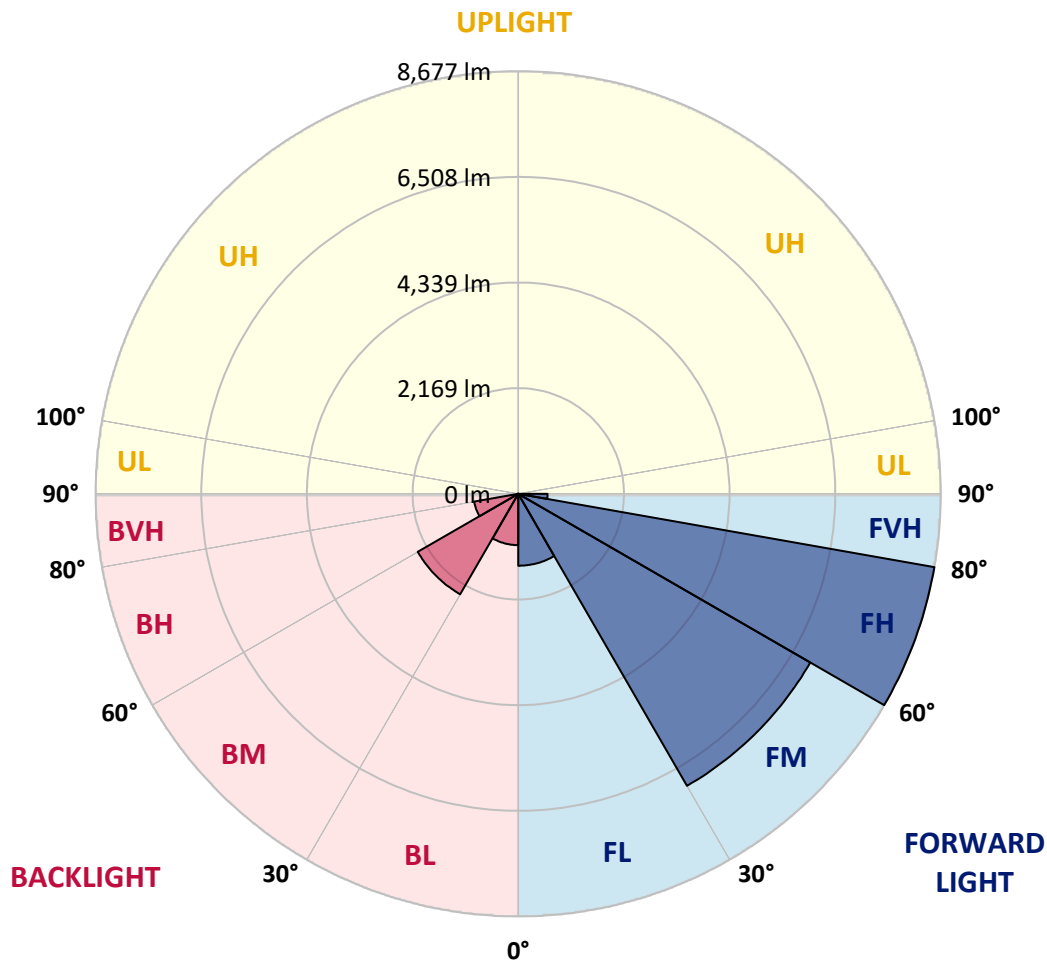
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1476.5	6.7			
FM (30°-60°)	6924.6	31.4			
FH (60°-80°)	8677.1	39.3			G4/12000
FVH (80°-90°)	601.9	2.7			G4/750
BL (0°-30°)	1054.6	4.8	B3/2500		
BM (30°-60°)	2382.9	10.8	B2/2500		
BH (60°-80°)	919.0	4.2	B2/1000		G2/1000
BVH (80°-90°)	29.6	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3055.4	3055.4	3055.4	3055.4	3055.4	3055.4	3055.4	3055.4	3055.4	3055.4	3055.4
2.5°	3423.3	3449.2	3506.9	3537.4	3584.4	3587.5	3587.5	3546.5	3545.0	3461.3	3452.2
5°	3826.1	3887.0	4023.7	4165.2	4195.5	4203.1	4187.9	4105.8	4045.1	3882.4	3847.4
7.5°	4226.0	4343.0	4551.3	4739.8	4800.6	4800.6	4764.1	4630.3	4505.7	4270.0	4181.9
10°	4557.4	4704.9	4987.5	5198.8	5268.8	5253.5	5179.1	5010.3	4838.6	4552.7	4437.2
12.5°	4776.3	4941.9	5252.1	5422.4	5493.8	5454.2	5369.1	5205.0	5024.0	4723.0	4592.3
15°	4885.7	5059.0	5328.1	5417.7	5398.0	5357.0	5346.3	5267.3	5130.4	4849.2	4706.3
17.5°	4932.8	5093.9	5280.9	5224.7	5057.5	5025.6	5132.0	5232.3	5198.8	4958.6	4824.9
20°	4976.9	5112.2	5168.5	4919.2	4627.3	4598.4	4802.1	5087.9	5233.9	5060.5	4937.4
22.5°	5037.7	5121.3	5005.8	4596.9	4282.2	4215.3	4440.3	4870.5	5244.4	5189.7	5066.6
25°	5121.3	5144.2	4826.4	4291.4	3975.2	3908.2	4118.0	4628.8	5226.2	5329.6	5224.7
27.5°	5221.7	5174.5	4654.6	4035.9	3730.4	3668.1	3877.9	4396.2	5174.5	5469.4	5395.0
30°	5352.3	5214.1	4484.4	3838.3	3555.6	3510.0	3712.1	4195.5	5110.6	5647.2	5606.2
32.5°	5484.7	5230.8	4326.3	3722.8	3516.1	3532.8	3698.5	4087.6	5040.7	5817.5	5837.3
35°	5627.6	5284.0	4248.7	3836.8	3845.9	3991.9	4060.2	4187.9	5030.1	6048.6	6126.1
37.5°	5822.1	5402.6	4341.5	4403.8	4720.0	5022.5	4966.2	4678.9	5153.3	6393.6	6538.1
40°	6101.8	5610.8	4745.9	5369.1	6018.2	6509.2	6294.8	5571.3	5530.3	6890.8	7106.6
42.5°	6509.2	5942.2	5463.4	6548.7	7649.3	8458.0	7883.4	6722.1	6190.0	7600.7	7875.8
45°	7111.1	6478.8	6331.3	7793.7	9660.4	10934.3	9739.4	7948.8	7114.2	8675.4	8891.3
47.5°	7945.7	7267.8	7144.7	9105.6	12104.8	13752.6	11797.7	9085.8	8166.2	10140.8	10191.0
50°	9053.9	8330.3	7915.4	10540.6	14784.8	16625.7	13854.5	10183.4	9371.6	11931.5	11873.7
52.5°	10516.3	9812.4	8813.7	11907.2	17540.8	19437.9	15920.3	11147.1	10867.5	14009.5	13891.0
55°	12510.6	12042.5	10042.0	13211.4	20295.3	22266.9	17905.6	12056.2	12843.6	16478.2	15760.7
57.5°	14985.4	15319.9	11812.9	14724.0	22771.6	25182.5	19900.1	13326.9	15409.5	19238.7	16846.1
60°	16581.6	19678.1	15204.3	16960.1	25585.3	28479.6	22633.2	15744.0	18106.3	20228.4	16639.3
62.5°	16195.5	21064.5	19266.1	19814.9	28172.5	30876.9	25311.7	18171.6	18614.0	18770.6	15046.3
65°	15011.3	19945.7	18437.7	20369.7	28827.7	31012.2	26027.7	17858.5	15789.6	15324.5	12094.2
67.5°	13381.7	18618.5	16469.1	18898.2	27643.5	29121.2	24694.5	15797.2	12202.1	11499.8	8774.2
70°	11622.9	17150.1	15177.0	17247.4	25386.2	25825.5	22428.0	13894.0	8974.9	7766.3	5630.5
72.5°	9953.8	15620.9	14292.3	15555.5	22374.8	21465.8	19477.5	12211.2	6535.1	5601.7	4002.5
75°	8246.7	13365.0	13032.1	13545.9	18414.8	16908.4	16183.3	10110.4	5128.9	4052.6	2762.1
77.5°	6363.3	10443.3	11209.4	10847.7	12962.2	12559.3	12544.2	7597.6	3747.1	2704.4	1731.4
80°	4355.2	7278.4	8757.5	7652.3	8412.4	8207.2	9447.6	5097.0	2718.0	1628.1	963.8
82.5°	2559.9	4431.2	6095.7	3704.6	4651.6	4774.8	5626.0	2479.4	1599.2	375.5	209.8
85°	1038.2	1749.7	2383.5	1450.2	2243.7	1892.6	2135.8	696.2	445.4	9.1	0.0
87.5°	261.5	559.4	392.2	162.7	259.9	238.6	188.5	85.2	18.2	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°	3055.4	3055.4	3055.4	3055.4	3055.4	3055.4	3055.4	3055.4	3055.4	3055.4	3055.4
2.5°	3393.0	3358.0	3271.3	3184.7	3114.8	3020.5	2958.1	2883.7	2812.3	2748.4	2736.2
5°	3751.7	3636.2	3478.0	3333.6	3186.2	3043.3	2902.0	2752.9	2616.1	2532.6	2479.4
7.5°	4043.5	3839.9	3630.0	3446.2	3268.3	3101.0	2914.1	2733.2	2518.8	2404.9	2301.4
10°	4260.9	3993.4	3718.3	3506.9	3327.6	3164.9	3006.8	2824.4	2566.0	2423.1	2268.0
12.5°	4403.8	4086.1	3763.8	3522.1	3321.5	3195.3	3125.4	3054.0	2797.0	2629.8	2404.9
15°	4502.6	4151.5	3795.8	3487.2	3240.9	3148.2	3218.1	3300.2	3136.0	2943.0	2649.6
17.5°	4610.6	4236.6	3809.4	3393.0	3084.3	3044.9	3225.7	3415.7	3408.1	3216.6	2929.2
20°	4724.5	4311.0	3800.3	3240.9	2894.3	2929.2	3160.4	3380.8	3473.5	3370.1	3114.8
22.5°	4841.6	4382.5	3765.3	3043.3	2716.5	2825.9	3057.0	3250.1	3359.5	3327.6	3133.0
25°	4989.1	4482.8	3713.7	2830.4	2569.1	2721.1	2936.9	3093.4	3169.5	3168.0	3034.2
27.5°	5165.4	4616.6	3686.3	2658.7	2464.1	2602.5	2794.0	2933.9	2987.1	2987.1	2880.7
30°	5370.6	4774.8	3655.9	2546.2	2403.3	2479.4	2628.3	2765.1	2818.3	2818.3	2728.7
32.5°	5598.7	4926.8	3583.0	2477.8	2357.7	2359.2	2453.4	2578.2	2641.9	2651.1	2587.3
35°	5872.2	5089.4	3423.3	2423.1	2304.5	2242.2	2287.8	2391.1	2467.2	2487.0	2447.4
37.5°	6231.0	5288.5	3195.3	2342.5	2222.4	2119.1	2129.7	2208.8	2292.3	2322.8	2296.9
40°	6712.9	5522.6	2958.1	2227.0	2106.9	1983.8	1979.2	2037.0	2119.1	2152.5	2138.9
42.5°	7349.9	5803.9	2731.6	2116.0	1967.1	1840.9	1833.3	1878.9	1950.4	1985.3	1979.2
45°	8164.6	6149.0	2537.1	2029.4	1830.2	1705.6	1702.5	1740.6	1802.9	1839.4	1831.8
47.5°	9297.2	6494.0	2404.9	1983.8	1722.3	1594.6	1600.7	1634.2	1690.4	1716.3	1705.6
50°	10773.2	6598.8	2337.9	1983.8	1664.5	1495.8	1526.2	1553.6	1596.1	1611.3	1597.7
52.5°	12189.9	6252.3	2277.1	1996.0	1672.2	1412.2	1477.5	1497.3	1533.8	1539.9	1520.2
55°	12884.7	5375.2	2193.5	1999.0	1719.2	1340.8	1438.1	1474.6	1488.2	1486.7	1453.2
57.5°	12645.9	4346.1	2052.2	1986.9	1751.2	1295.2	1389.4	1459.3	1468.4	1454.8	1392.5
60°	11808.4	3199.8	1944.2	1897.2	1739.0	1281.5	1314.9	1425.9	1439.6	1421.4	1319.5
62.5°	10403.8	2220.9	1860.7	1699.6	1685.8	1276.9	1197.8	1352.9	1386.3	1360.5	1211.6
65°	8190.5	1568.8	1602.2	1489.7	1570.3	1252.6	1076.2	1264.7	1310.4	1270.8	1061.1
67.5°	5542.4	1132.5	1298.2	1349.9	1383.3	1197.8	988.1	1164.4	1225.2	1173.5	886.2
70°	2993.1	795.0	857.3	1137.0	1175.1	1103.6	909.1	1062.6	1132.5	1076.2	722.1
72.5°	1767.9	571.5	600.4	913.6	979.0	971.4	820.8	944.0	1029.1	962.3	586.8
75°	974.4	386.1	428.7	662.8	795.0	749.4	705.3	799.6	886.2	820.8	453.0
77.5°	436.2	231.0	298.0	434.8	624.7	513.8	545.7	623.3	703.9	635.4	302.5
80°	168.7	129.3	197.6	237.2	454.5	284.2	351.2	459.1	516.8	462.1	183.9
82.5°	21.3	57.8	85.2	92.8	264.6	150.5	203.7	288.8	284.2	246.3	92.8
85°	0.0	10.7	12.2	6.0	114.0	54.7	66.9	94.2	88.1	66.9	7.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	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°	3055.4	3055.4	3055.4	3055.4	3055.4	3055.4	3055.4	3055.4	3055.4	3055.4	3055.4
2.5°	2661.7	2607.0	2579.6	2556.9	2578.2	2590.3	2590.3	2641.9	2672.4	2684.6	2769.7
5°	2345.6	2243.7	2175.4	2134.3	2148.0	2163.2	2179.9	2245.3	2289.3	2318.2	2450.5
7.5°	2096.2	1941.2	1845.4	1795.3	1802.9	1813.5	1827.2	1891.0	1935.1	1973.1	2120.6
10°	1973.1	1754.2	1628.1	1567.2	1556.6	1550.5	1546.0	1583.9	1617.4	1647.8	1793.7
12.5°	1979.2	1673.6	1520.2	1445.7	1413.7	1377.2	1348.4	1354.4	1375.8	1413.7	1506.4
15°	2056.8	1647.8	1463.9	1371.1	1317.9	1275.4	1240.5	1232.9	1240.5	1246.5	1304.3
17.5°	2161.6	1644.8	1415.2	1299.7	1245.0	1210.0	1178.1	1167.5	1169.0	1176.6	1191.8
20°	2245.3	1635.7	1360.5	1231.3	1182.6	1152.3	1120.3	1109.7	1112.7	1114.3	1131.0
22.5°	2289.3	1622.0	1299.7	1162.9	1121.9	1091.4	1062.6	1061.1	1061.1	1070.2	1082.3
25°	2289.3	1593.1	1245.0	1097.6	1061.1	1033.7	998.8	1004.8	1007.9	1020.0	1038.2
27.5°	2234.6	1538.4	1200.9	1041.3	1003.3	975.9	944.0	951.6	956.1	969.9	992.6
30°	2164.7	1473.0	1150.8	988.1	944.0	924.2	896.9	900.0	906.0	921.2	947.0
32.5°	2090.2	1395.4	1109.7	934.9	890.8	875.6	845.2	849.7	855.9	872.6	901.5
35°	2008.1	1304.3	1061.1	886.2	842.1	829.9	795.0	798.1	807.2	825.4	854.3
37.5°	1921.5	1229.8	1012.4	839.1	793.6	781.4	744.9	747.9	758.5	779.8	807.2
40°	1836.3	1156.8	960.7	788.9	743.3	732.7	693.2	696.2	708.4	731.1	760.0
42.5°	1743.6	1100.5	893.8	737.3	688.6	677.9	641.4	646.1	659.7	682.5	711.5
45°	1632.6	1064.1	819.4	688.6	633.9	623.3	589.8	598.9	614.2	636.9	667.4
47.5°	1518.6	1048.9	757.1	636.9	577.7	568.6	541.2	556.4	573.1	591.3	624.7
50°	1409.2	1029.1	693.2	588.2	529.0	519.9	501.6	521.4	538.1	554.8	586.8
52.5°	1284.5	986.6	635.4	545.7	488.0	484.9	475.8	494.0	509.2	524.5	551.8
55°	1155.3	918.2	585.3	507.7	453.0	456.0	451.5	466.7	478.9	492.5	516.8
57.5°	1042.8	831.5	545.7	466.7	422.6	431.7	425.7	433.3	440.9	457.6	477.3
60°	928.8	728.2	501.6	418.0	392.2	402.8	386.1	384.6	387.7	392.2	428.7
62.5°	775.3	620.2	446.9	375.5	358.7	363.3	331.4	307.1	307.1	311.6	366.3
65°	623.3	519.9	386.1	326.9	313.1	310.1	264.6	231.0	228.1	241.7	288.8
67.5°	512.3	431.7	325.3	272.1	263.0	266.0	232.6	199.2	196.1	211.3	246.3
70°	424.1	348.1	259.9	209.8	218.9	232.6	199.2	167.2	162.7	176.3	209.8
72.5°	337.4	272.1	199.2	155.1	180.9	197.6	162.7	132.2	129.3	141.3	173.3
75°	247.7	194.5	135.3	112.4	139.8	155.1	118.6	94.2	89.7	100.3	132.2
77.5°	153.5	109.5	85.2	66.9	95.7	103.3	62.3	54.7	53.2	60.8	83.6
80°	71.4	47.2	41.0	22.8	35.0	41.0	25.8	28.9	30.4	36.5	51.7
82.5°	19.8	7.6	1.5	0.0	0.0	12.2	6.0	12.2	15.2	22.8	33.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	7.6	13.6	24.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	12.2
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: P970266
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CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	3055.4	3055.4	3055.4	3055.4	3055.4	3055.4	3055.4	3055.4
2.5°	2833.5	2894.3	2991.7	3091.9	3190.7	3291.1	3388.3	3423.3
5°	2570.5	2710.4	2903.4	3110.2	3323.0	3538.9	3736.4	3826.1
7.5°	2277.1	2477.8	2768.1	3091.9	3431.0	3770.0	4081.6	4226.0
10°	1964.0	2217.9	2549.3	2987.1	3473.5	3941.7	4370.4	4557.4
12.5°	1666.0	1932.1	2298.5	2822.8	3440.1	4040.6	4555.8	4776.3
15°	1416.8	1652.4	2047.6	2628.3	3332.2	4046.6	4644.0	4885.7
17.5°	1229.8	1383.3	1792.2	2412.4	3190.7	3990.3	4674.4	4932.8
20°	1137.0	1179.7	1460.8	2135.8	3058.5	3937.1	4704.9	4976.9
22.5°	1082.3	1093.0	1194.8	1778.6	2900.4	3920.4	4758.0	5037.7
25°	1038.2	1041.3	1068.7	1409.2	2658.7	3909.8	4840.0	5121.3
27.5°	994.1	994.1	1009.3	1135.5	2330.3	3864.1	4946.5	5221.7
30°	950.1	950.1	960.7	1004.8	1945.8	3774.5	5074.2	5352.3
32.5°	904.5	904.5	913.6	945.6	1553.6	3662.0	5191.2	5484.7
35°	858.8	855.9	868.0	901.5	1235.8	3519.1	5308.3	5627.6
37.5°	810.3	808.7	820.8	858.8	1067.1	3353.4	5396.4	5822.1
40°	758.5	758.5	772.2	813.2	1018.4	3145.1	5536.3	6101.8
42.5°	711.5	708.4	723.5	773.8	982.1	2946.1	5787.2	6509.2
45°	665.8	659.7	673.4	735.7	918.2	2876.0	6255.4	7111.1
47.5°	623.3	608.0	620.2	690.1	860.4	3137.5	7021.5	7945.7
50°	588.2	559.4	570.0	644.5	816.3	3704.6	8015.6	9053.9
52.5°	551.8	513.8	519.9	588.2	776.7	4244.2	9093.4	10516.3
55°	513.8	471.2	474.3	532.1	720.6	4324.8	10145.3	12510.6
57.5°	471.2	431.7	431.7	480.3	679.5	3748.6	10954.1	14985.4
60°	424.1	398.3	390.6	439.3	716.0	2645.0	11048.3	16581.6
62.5°	372.4	358.7	348.1	399.7	743.3	1567.2	10289.8	16195.5
65°	313.1	310.1	302.5	439.3	626.3	925.8	8833.4	15011.3
67.5°	263.0	258.4	258.4	460.6	475.8	582.2	6901.4	13381.7
70°	226.5	209.8	209.8	348.1	288.8	402.8	4818.8	11622.9
72.5°	190.0	171.8	159.6	278.2	215.9	294.9	3011.3	9953.8
75°	152.0	138.4	123.1	183.9	161.1	223.4	1749.7	8246.7
77.5°	109.5	103.3	86.6	135.3	117.1	161.1	1041.3	6363.3
80°	56.3	57.8	54.7	77.5	79.0	109.5	592.9	4355.2
82.5°	33.4	25.8	28.9	38.0	45.6	62.3	223.4	2559.9
85°	21.3	13.6	13.6	18.2	22.8	24.3	68.4	1038.2
87.5°	10.7	4.5	6.0	9.1	7.6	6.0	3.1	261.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)