

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: P970328

Luminaire Tested: **NAV-SB6B-730-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970328
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-730-U-SLL-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3000K, 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: 26712.5 lumens
Efficiency: N/A
Efficacy: 121.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

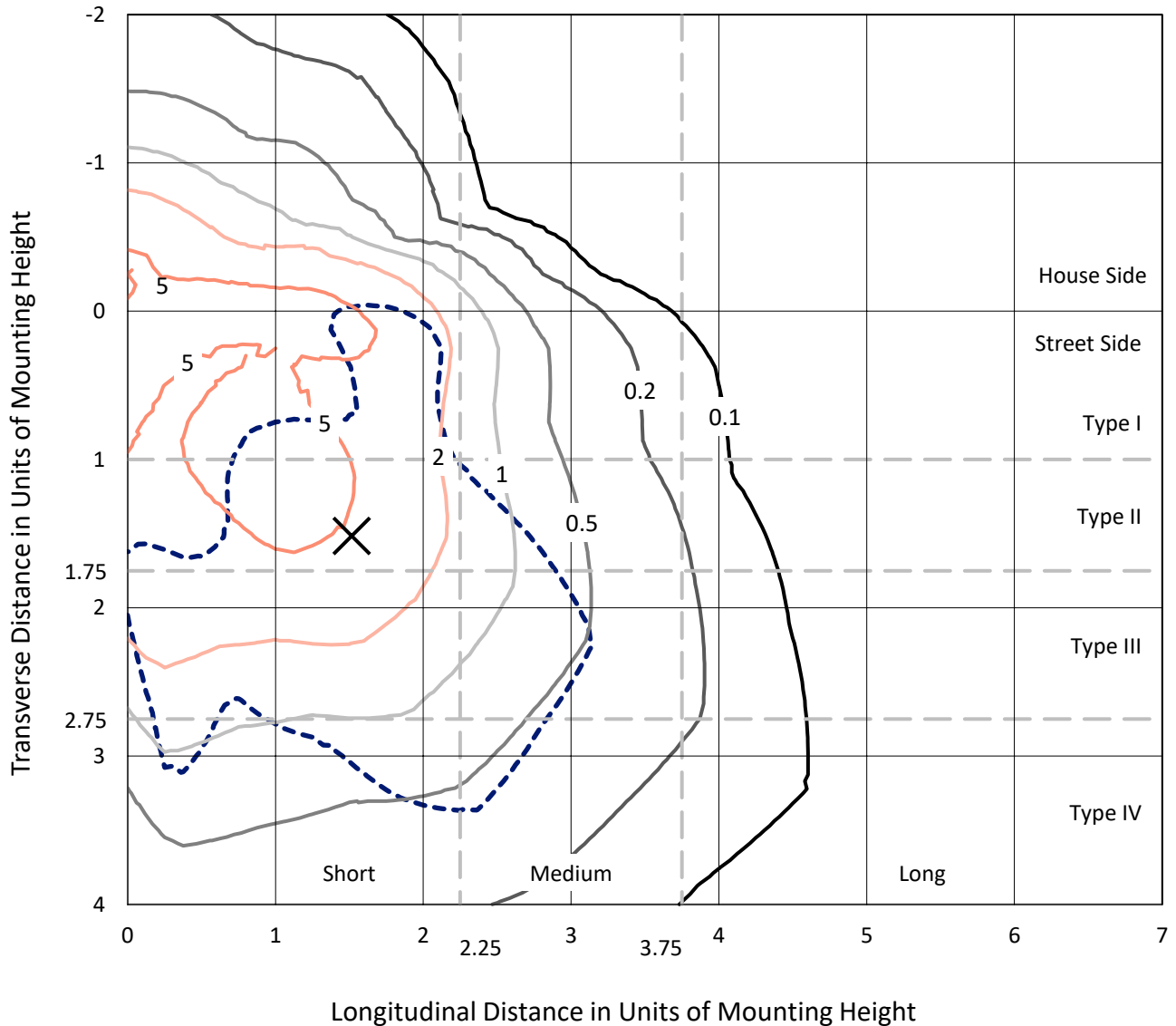
Input Watts (W): 220.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

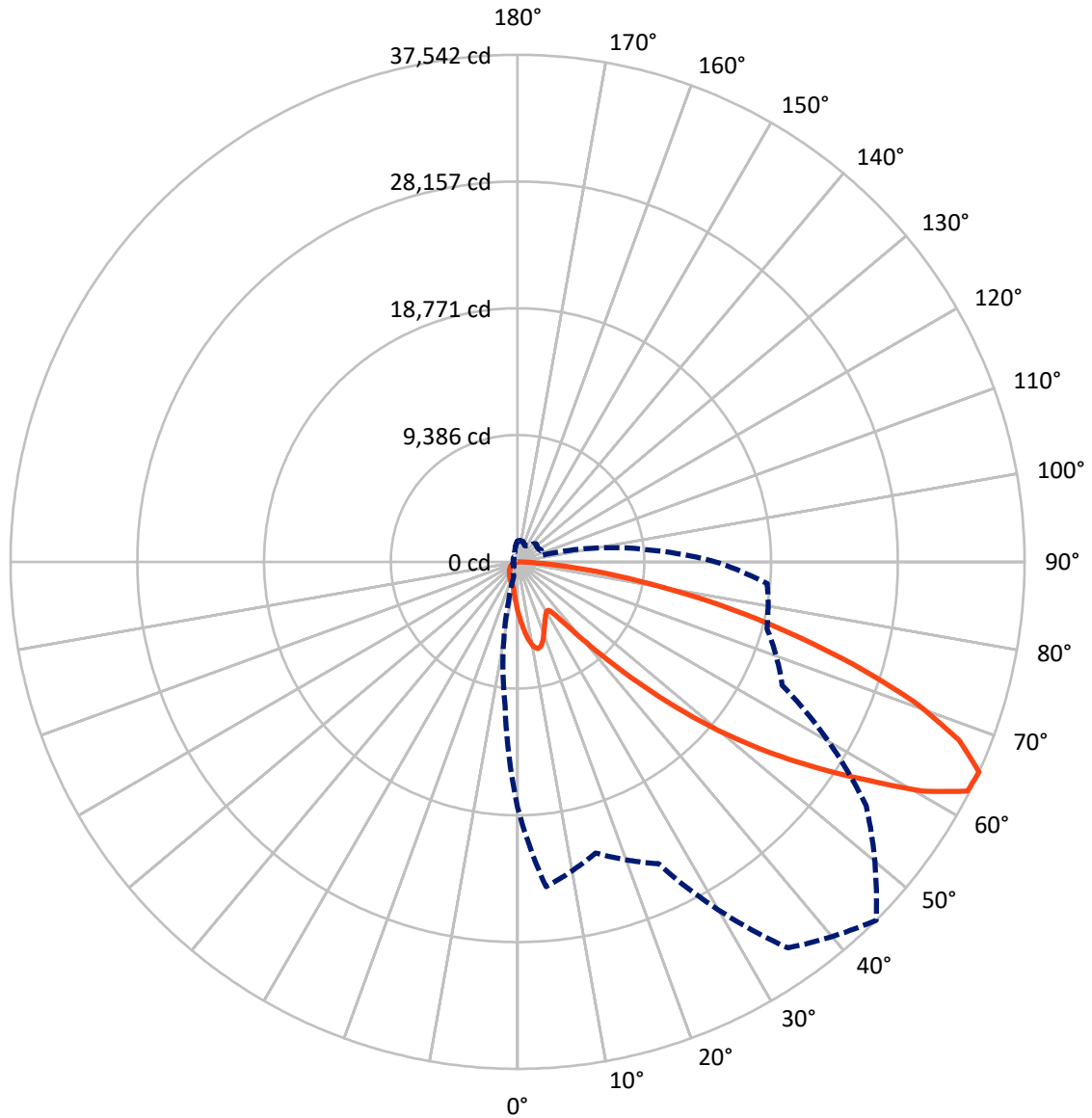
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 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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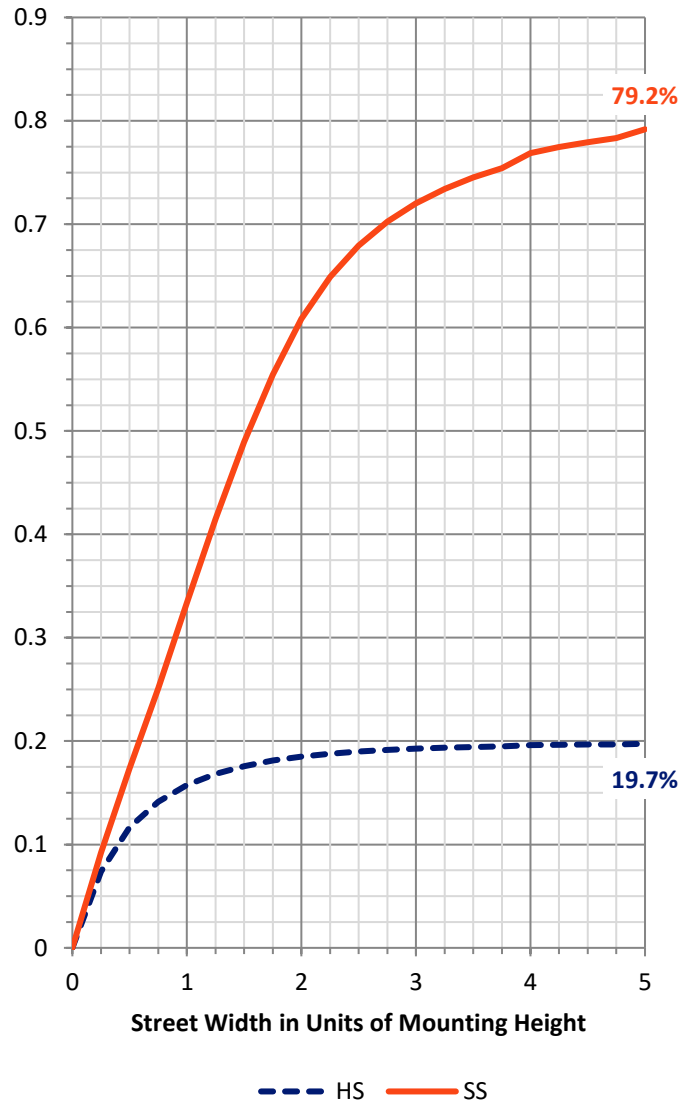
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5309.6	0.0	5309.6
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	21402.9	0.0	21402.9
	% Fixture	80.1	0.0	80.1
Total	Lumens	26712.5	0.0	26712.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	364.2	1.4
10°-20°	1091.6	4.1
20°-30°	1608.2	6.0
30°-40°	2066.1	7.7
40°-50°	3341.6	12.5
50°-60°	5859.7	21.9
60°-70°	7332.1	27.4
70°-80°	4284.5	16.0
80°-90°	764.4	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°	26712.5	100.0
0°-180°	26712.5	100.0

Coefficient of Utilization

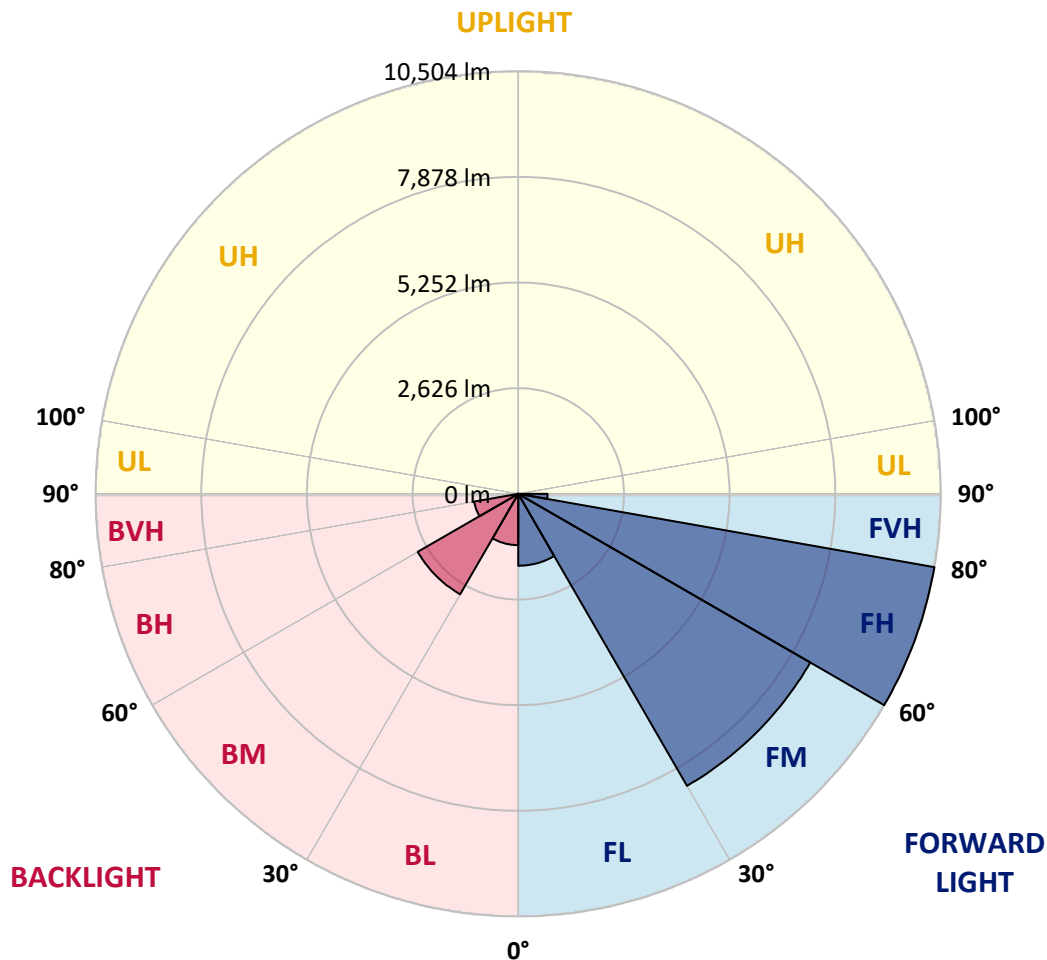


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1787.4	6.7			
FM (30°-60°)	8382.7	31.4			
FH (60°-80°)	10504.2	39.3			G4/12000
FVH (80°-90°)	728.6	2.7			G4/750
BL (0°-30°)	1276.7	4.8	B3/2500		
BM (30°-60°)	2884.7	10.8	B3/5000		
BH (60°-80°)	1112.5	4.2	B3/2500		G3/2500
BVH (80°-90°)	35.8	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-G4
 Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3698.8	3698.8	3698.8	3698.8	3698.8	3698.8	3698.8	3698.8	3698.8	3698.8	3698.8
2.5°	4144.2	4175.4	4245.3	4282.1	4339.2	4342.9	4342.9	4293.2	4291.4	4190.2	4179.1
5°	4631.8	4705.5	4871.0	5042.2	5079.0	5088.2	5069.8	4970.4	4896.8	4699.9	4657.6
7.5°	5115.8	5257.5	5509.6	5737.7	5811.4	5811.4	5767.3	5605.3	5454.4	5169.2	5062.5
10°	5517.0	5695.4	6037.8	6293.5	6378.2	6359.8	6269.6	6065.3	5857.4	5511.4	5371.6
12.5°	5781.9	5982.5	6358.0	6564.0	6650.5	6602.6	6499.6	6300.9	6081.9	5717.6	5559.3
15°	5914.5	6124.3	6449.9	6558.6	6534.6	6484.9	6472.1	6376.3	6210.7	5870.3	5697.3
17.5°	5971.4	6166.6	6392.9	6324.9	6122.4	6083.8	6212.5	6334.0	6293.5	6002.8	5840.9
20°	6024.8	6188.6	6256.7	5954.9	5601.6	5566.7	5813.2	6159.2	6335.8	6126.1	5977.0
22.5°	6098.4	6199.7	6059.8	5564.8	5183.8	5103.0	5375.3	5896.0	6348.7	6282.5	6133.4
25°	6199.7	6227.3	5842.7	5194.9	4812.2	4731.2	4985.2	5603.5	6326.6	6451.8	6324.9
27.5°	6321.2	6264.1	5634.7	4885.8	4515.8	4440.4	4694.4	5321.9	6264.1	6621.1	6530.9
30°	6479.4	6312.0	5428.6	4646.5	4304.3	4249.0	4493.8	5079.0	6186.8	6836.4	6786.7
32.5°	6639.5	6332.1	5237.2	4506.7	4256.4	4276.6	4477.2	4948.3	6102.1	7042.5	7066.5
35°	6812.5	6396.6	5143.3	4644.7	4655.8	4832.4	4915.2	5069.8	6089.2	7322.2	7416.1
37.5°	7048.0	6540.1	5255.7	5331.1	5713.9	6080.1	6011.9	5664.2	6238.4	7740.0	7914.7
40°	7386.7	6792.3	5745.1	6499.6	7285.4	7879.8	7620.4	6744.4	6694.7	8341.7	8603.0
42.5°	7879.8	7193.3	6613.7	7927.7	9260.0	10238.9	9543.4	8137.5	7493.4	9201.1	9534.1
45°	8608.6	7843.0	7664.5	9434.8	11694.5	13236.6	11790.3	9622.5	8612.2	10502.2	10763.4
47.5°	9618.8	8798.1	8649.1	11022.8	14653.6	16648.5	14281.9	10999.0	9885.6	12276.1	12336.8
50°	10960.3	10084.4	9582.0	12760.0	17897.9	20126.4	16771.7	12327.6	11344.9	14443.9	14373.9
52.5°	12730.6	11878.6	10669.5	14414.4	21234.2	23530.8	19272.6	13494.3	13155.7	16959.4	16815.8
55°	15145.0	14578.2	12156.5	15993.3	24568.7	26955.4	21675.9	14594.8	15547.9	19947.9	19079.4
57.5°	18140.9	18545.6	14300.3	17824.3	27566.5	30484.9	24090.3	16133.2	18654.3	23289.7	20393.3
60°	20073.1	23821.6	18405.8	20531.3	30972.6	34476.4	27399.0	19059.1	21918.8	24487.8	20143.0
62.5°	19605.7	25499.8	23322.8	23987.2	34104.7	37378.5	30641.5	21997.9	22533.4	22722.9	18214.5
65°	18172.1	24145.4	22320.0	24658.8	34897.9	37542.2	31508.2	21618.8	19114.3	18551.2	14640.8
67.5°	16199.4	22538.9	19936.9	22877.6	33464.3	35252.9	29894.2	19123.5	14771.4	13921.2	10621.7
70°	14070.3	20761.3	18372.7	20879.0	30731.5	31263.4	27150.5	16819.5	10864.6	9401.6	6816.1
72.5°	12049.7	18910.0	17301.7	18830.9	27086.1	25985.7	23578.7	14782.4	7911.1	6781.2	4845.3
75°	9983.2	16179.1	15776.2	16398.2	22292.3	20468.7	19590.9	12239.2	6208.8	4906.1	3343.7
77.5°	7703.2	12642.2	13569.8	13131.8	15691.5	15203.8	15185.5	9197.4	4536.1	3273.7	2096.0
80°	5272.2	8810.9	10601.5	9263.6	10183.8	9935.3	11436.9	6170.2	3290.4	1970.9	1166.7
82.5°	3098.9	5364.2	7379.3	4484.6	5631.0	5780.1	6810.6	3001.4	1935.9	454.5	254.0
85°	1256.9	2118.1	2885.5	1755.5	2716.1	2291.1	2585.5	842.9	539.2	11.1	0.0
87.5°	316.5	677.2	474.8	196.9	314.7	288.9	228.2	103.0	22.0	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°	3698.8	3698.8	3698.8	3698.8	3698.8	3698.8	3698.8	3698.8	3698.8	3698.8	3698.8
2.5°	4107.4	4065.0	3960.2	3855.2	3770.6	3656.5	3581.0	3490.8	3404.4	3327.2	3312.4
5°	4541.7	4401.8	4210.4	4035.6	3857.1	3684.2	3513.0	3332.6	3167.0	3065.8	3001.4
7.5°	4895.0	4648.4	4394.4	4171.8	3956.5	3754.1	3527.6	3308.7	3049.3	2911.2	2786.1
10°	5158.1	4834.2	4501.2	4245.3	4028.2	3831.3	3640.0	3419.1	3106.3	2933.3	2745.6
12.5°	5331.1	4946.4	4556.3	4263.8	4020.9	3868.1	3783.5	3697.0	3386.0	3183.5	2911.2
15°	5450.7	5025.6	4595.0	4221.5	3923.3	3811.1	3895.7	3995.1	3796.4	3562.7	3207.5
17.5°	5581.3	5128.7	4611.6	4107.4	3733.8	3685.9	3904.9	4135.0	4125.7	3893.9	3546.1
20°	5719.4	5218.9	4600.5	3923.3	3503.8	3546.1	3825.8	4092.6	4204.9	4079.7	3770.6
22.5°	5861.1	5305.3	4558.2	3684.2	3288.5	3420.9	3700.7	3934.4	4066.9	4028.2	3792.7
25°	6039.6	5426.8	4495.6	3426.5	3110.0	3293.9	3555.3	3744.8	3836.9	3835.0	3673.1
27.5°	6253.0	5588.7	4462.5	3218.5	2983.0	3150.4	3382.3	3551.6	3616.0	3616.0	3487.3
30°	6501.5	5780.1	4425.7	3082.4	2909.4	3001.4	3181.7	3347.3	3411.7	3411.7	3303.2
32.5°	6777.5	5964.2	4337.4	2999.6	2854.2	2856.1	2970.1	3121.0	3198.3	3209.4	3132.1
35°	7108.8	6161.1	4144.2	2933.3	2789.7	2714.3	2769.5	2894.7	2986.6	3010.6	2962.8
37.5°	7543.1	6402.2	3868.1	2835.8	2690.4	2565.3	2578.2	2673.8	2775.1	2811.9	2780.5
40°	8126.4	6685.5	3581.0	2696.0	2550.5	2401.5	2395.9	2465.8	2565.3	2605.8	2589.1
42.5°	8897.4	7026.0	3306.9	2561.6	2381.3	2228.5	2219.3	2274.5	2361.0	2403.3	2395.9
45°	9883.8	7443.7	3071.3	2456.7	2215.6	2064.8	2061.1	2107.1	2182.5	2226.7	2217.5
47.5°	11254.7	7861.4	2911.2	2401.5	2085.0	1930.4	1937.8	1978.2	2046.3	2077.6	2064.8
50°	13041.6	7988.3	2830.2	2401.5	2015.0	1810.8	1847.6	1880.7	1932.2	1950.7	1934.1
52.5°	14756.7	7568.8	2756.6	2416.2	2024.3	1709.6	1788.7	1812.6	1856.8	1864.2	1840.2
55°	15597.6	6507.0	2655.5	2419.9	2081.3	1623.1	1740.9	1785.0	1801.5	1799.7	1759.2
57.5°	15308.8	5261.2	2484.3	2405.2	2119.9	1567.8	1681.9	1766.6	1777.7	1761.1	1685.6
60°	14294.8	3873.7	2353.6	2296.6	2105.2	1551.3	1591.8	1726.1	1742.7	1720.6	1597.3
62.5°	12594.4	2688.6	2252.4	2057.4	2040.8	1545.8	1450.1	1637.7	1678.2	1647.0	1466.7
65°	9915.0	1899.1	1939.6	1803.4	1901.0	1516.4	1302.9	1531.0	1586.3	1538.4	1284.4
67.5°	6709.4	1370.9	1571.5	1634.2	1674.6	1450.1	1196.2	1409.6	1483.2	1420.6	1072.9
70°	3623.4	962.5	1037.9	1376.5	1422.5	1336.0	1100.4	1286.3	1370.9	1302.9	874.1
72.5°	2140.2	691.9	726.9	1106.0	1185.1	1175.9	993.7	1142.8	1245.8	1164.8	710.3
75°	1179.6	467.4	519.0	802.4	962.5	907.2	853.8	967.9	1072.9	993.7	548.4
77.5°	528.2	279.7	360.7	526.3	756.3	622.0	660.6	754.5	852.0	769.2	366.2
80°	204.3	156.4	239.2	287.1	550.2	344.1	425.1	555.8	625.7	559.4	222.6
82.5°	25.7	69.9	103.0	112.2	320.2	182.1	246.6	349.6	344.1	298.1	112.2
85°	0.0	12.9	14.8	7.4	138.0	66.2	81.0	114.1	106.7	81.0	9.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7	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°	3698.8	3698.8	3698.8	3698.8	3698.8	3698.8	3698.8	3698.8	3698.8	3698.8	3698.8
2.5°	3222.2	3156.0	3122.9	3095.2	3121.0	3135.7	3135.7	3198.3	3235.1	3249.9	3352.9
5°	2839.5	2716.1	2633.3	2583.6	2600.2	2618.7	2638.9	2718.0	2771.4	2806.3	2966.5
7.5°	2537.7	2349.9	2234.0	2173.3	2182.5	2195.3	2212.0	2289.2	2342.6	2388.6	2567.1
10°	2388.6	2123.6	1970.9	1897.3	1884.4	1877.0	1871.5	1917.5	1958.0	1994.8	2171.5
12.5°	2395.9	2026.1	1840.2	1750.1	1711.4	1667.3	1632.3	1639.6	1665.4	1711.4	1823.7
15°	2489.8	1994.8	1772.1	1659.9	1595.5	1544.0	1501.6	1492.4	1501.6	1509.0	1578.9
17.5°	2616.8	1991.1	1713.3	1573.4	1507.2	1464.8	1426.2	1413.3	1415.1	1424.3	1442.7
20°	2718.0	1980.1	1647.0	1490.6	1431.7	1394.9	1356.3	1343.4	1347.1	1348.9	1369.1
22.5°	2771.4	1963.5	1573.4	1407.7	1358.1	1321.2	1286.3	1284.4	1284.4	1295.5	1310.3
25°	2771.4	1928.5	1507.2	1328.6	1284.4	1251.3	1209.0	1216.4	1220.1	1234.8	1256.9
27.5°	2705.1	1862.3	1453.8	1260.5	1214.5	1181.4	1142.8	1152.0	1157.5	1174.0	1201.7
30°	2620.5	1783.2	1393.1	1196.2	1142.8	1118.9	1085.7	1089.4	1096.8	1115.2	1146.5
32.5°	2530.3	1689.3	1343.4	1131.7	1078.4	1060.0	1023.2	1028.7	1036.1	1056.3	1091.2
35°	2430.9	1578.9	1284.4	1072.9	1019.5	1004.8	962.5	966.1	977.1	999.3	1034.2
37.5°	2326.0	1488.7	1225.6	1015.8	960.6	945.9	901.7	905.4	918.3	944.0	977.1
40°	2223.0	1400.4	1163.0	955.1	899.8	886.9	839.2	842.9	857.5	885.2	920.1
42.5°	2110.7	1332.3	1082.1	892.5	833.6	820.7	776.5	782.1	798.7	826.3	861.2
45°	1976.4	1288.1	991.9	833.6	767.4	754.5	714.0	725.1	743.4	771.0	807.9
47.5°	1838.3	1269.8	916.5	771.0	699.3	688.3	655.1	673.5	693.7	715.9	756.3
50°	1705.9	1245.8	839.2	712.2	640.4	629.3	607.3	631.2	651.4	671.7	710.3
52.5°	1555.0	1194.3	769.2	660.6	590.7	587.0	575.9	598.1	616.4	634.9	668.0
55°	1398.6	1111.5	708.5	614.6	548.4	552.1	546.5	565.0	579.6	596.2	625.7
57.5°	1262.4	1006.6	660.6	565.0	511.6	522.6	515.3	524.5	533.6	553.9	577.8
60°	1124.3	881.5	607.3	506.0	474.8	487.7	467.4	465.6	469.2	474.8	519.0
62.5°	938.5	750.8	541.0	454.5	434.3	439.8	401.2	371.8	371.8	377.2	443.5
65°	754.5	629.3	467.4	395.6	379.0	375.4	320.2	279.7	276.0	292.6	349.6
67.5°	620.1	522.6	393.8	329.4	318.4	322.1	281.6	241.1	237.4	255.8	298.1
70°	513.4	421.4	314.7	254.0	265.0	281.6	241.1	202.4	196.9	213.5	254.0
72.5°	408.6	329.4	241.1	187.7	218.9	239.2	196.9	160.1	156.4	171.2	209.8
75°	299.9	235.5	163.8	136.2	169.3	187.7	143.5	114.1	108.5	121.5	160.1
77.5°	185.8	132.5	103.0	81.0	115.9	125.2	75.4	66.2	64.4	73.6	101.2
80°	86.5	57.1	49.7	27.6	42.3	49.7	31.3	35.0	36.8	44.2	62.5
82.5°	23.9	9.2	1.8	0.0	0.0	14.8	7.4	14.8	18.4	27.6	40.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7	9.2	16.6	29.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.4	14.8
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: P970328
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CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	3698.8	3698.8	3698.8	3698.8	3698.8	3698.8	3698.8	3698.8
2.5°	3430.2	3503.8	3621.5	3743.0	3862.6	3984.1	4101.8	4144.2
5°	3111.8	3281.1	3514.8	3765.0	4022.7	4284.0	4523.2	4631.8
7.5°	2756.6	2999.6	3351.0	3743.0	4153.4	4563.7	4941.0	5115.8
10°	2377.6	2684.9	3086.1	3616.0	4204.9	4771.7	5290.6	5517.0
12.5°	2016.9	2338.9	2782.4	3417.2	4164.4	4891.3	5515.1	5781.9
15°	1715.0	2000.3	2478.8	3181.7	4033.8	4898.7	5621.8	5914.5
17.5°	1488.7	1674.6	2169.6	2920.4	3862.6	4830.5	5658.6	5971.4
20°	1376.5	1428.0	1768.4	2585.5	3702.5	4766.1	5695.4	6024.8
22.5°	1310.3	1323.1	1446.4	2153.0	3511.1	4746.0	5759.9	6098.4
25°	1256.9	1260.5	1293.7	1705.9	3218.5	4733.0	5859.2	6199.7
27.5°	1203.5	1203.5	1221.9	1374.6	2821.0	4677.8	5988.0	6321.2
30°	1150.2	1150.2	1163.0	1216.4	2355.4	4569.2	6142.6	6479.4
32.5°	1094.9	1094.9	1106.0	1144.6	1880.7	4433.1	6284.4	6639.5
35°	1039.8	1036.1	1050.7	1091.2	1496.1	4260.1	6426.0	6812.5
37.5°	980.8	979.0	993.7	1039.8	1291.8	4059.5	6532.7	7048.0
40°	918.3	918.3	934.8	984.5	1233.0	3807.4	6702.1	7386.7
42.5°	861.2	857.5	876.0	936.6	1188.8	3566.4	7005.7	7879.8
45°	806.1	798.7	815.2	890.6	1111.5	3481.7	7572.5	8608.6
47.5°	754.5	736.1	750.8	835.5	1041.6	3798.2	8499.9	9618.8
50°	712.2	677.2	690.0	780.2	988.2	4484.6	9703.5	10960.3
52.5°	668.0	622.0	629.3	712.2	940.3	5137.9	11008.2	12730.6
55°	622.0	570.5	574.1	644.1	872.3	5235.4	12281.6	15145.0
57.5°	570.5	522.6	522.6	581.5	822.6	4538.0	13260.6	18140.9
60°	513.4	482.2	472.9	531.9	866.7	3202.0	13374.7	20073.1
62.5°	450.9	434.3	421.4	484.0	899.8	1897.3	12456.4	19605.7
65°	379.0	375.4	366.2	531.9	758.2	1120.7	10693.5	18172.1
67.5°	318.4	312.8	312.8	557.6	575.9	704.8	8354.6	16199.4
70°	274.2	254.0	254.0	421.4	349.6	487.7	5833.5	14070.3
72.5°	230.0	208.0	193.2	336.7	261.3	357.0	3645.5	12049.7
75°	184.0	167.5	149.0	222.6	195.1	270.5	2118.1	9983.2
77.5°	132.5	125.2	104.9	163.8	141.7	195.1	1260.5	7703.2
80°	68.1	69.9	66.2	93.9	95.7	132.5	717.7	5272.2
82.5°	40.5	31.3	35.0	46.0	55.2	75.4	270.5	3098.9
85°	25.7	16.6	16.6	22.0	27.6	29.4	82.8	1256.9
87.5°	12.9	5.5	7.4	11.1	9.2	7.4	3.7	316.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)