

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: P969274

Luminaire Tested: **NAV-SB5D-730-U-SLL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P969274  
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-SB5D-730-U-SLL-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

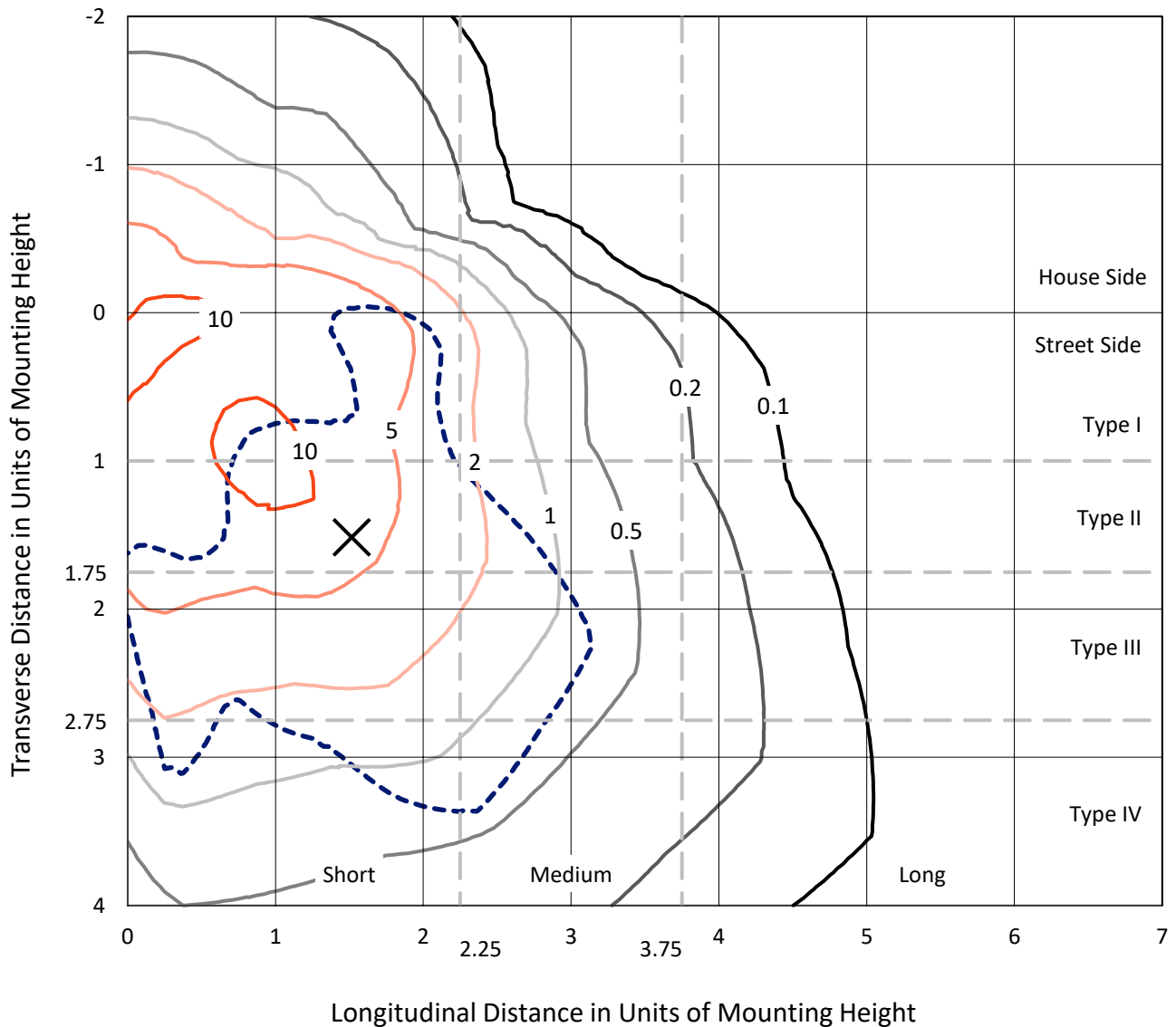
Lumens per Lamp: N/A  
Luminaire Lumens: 40211.8 lumens  
Efficiency: N/A  
Efficacy: 110.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 364.9  
Input Voltage (V): NR  
Input Current (Ain): 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

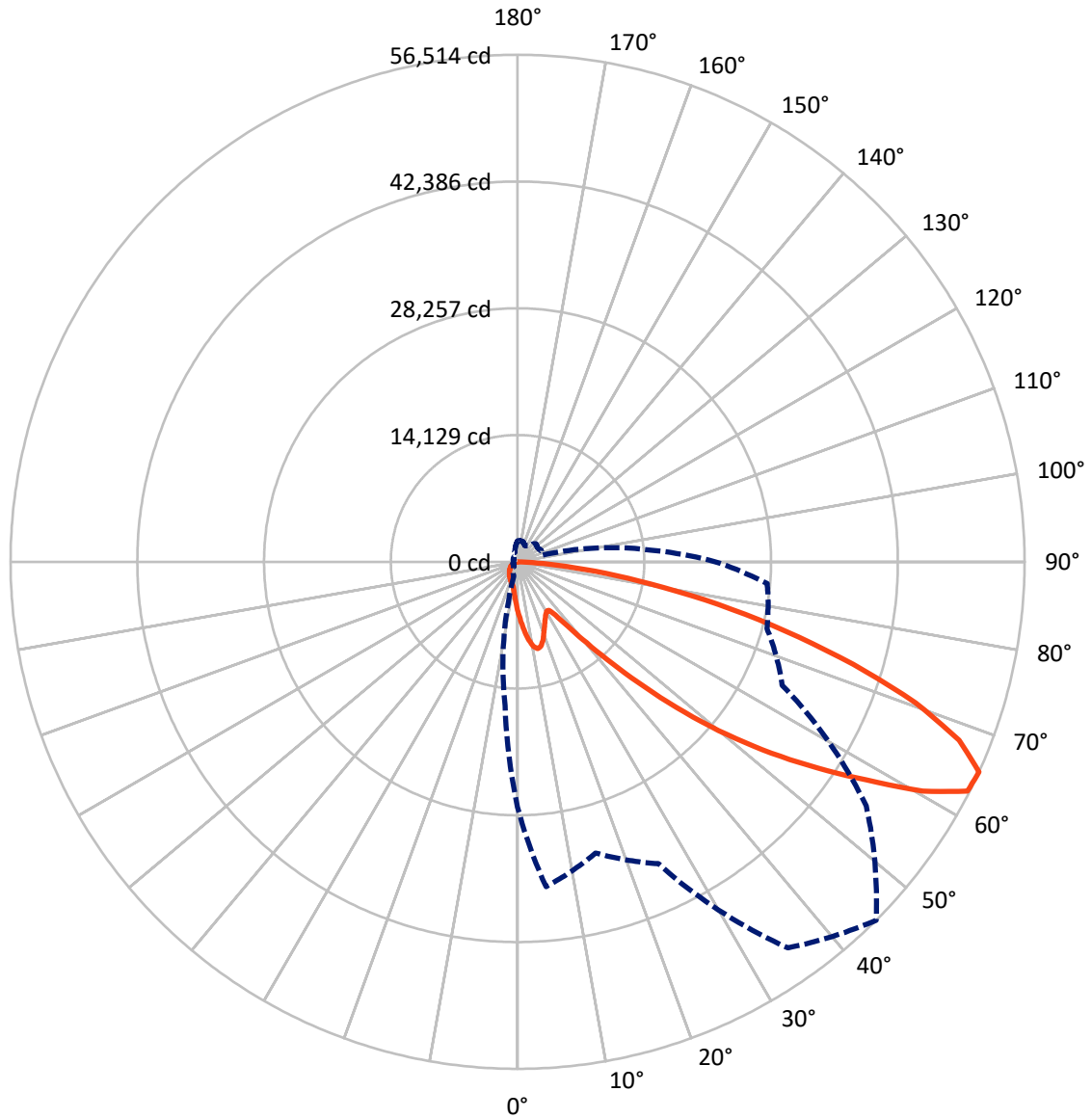
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.6 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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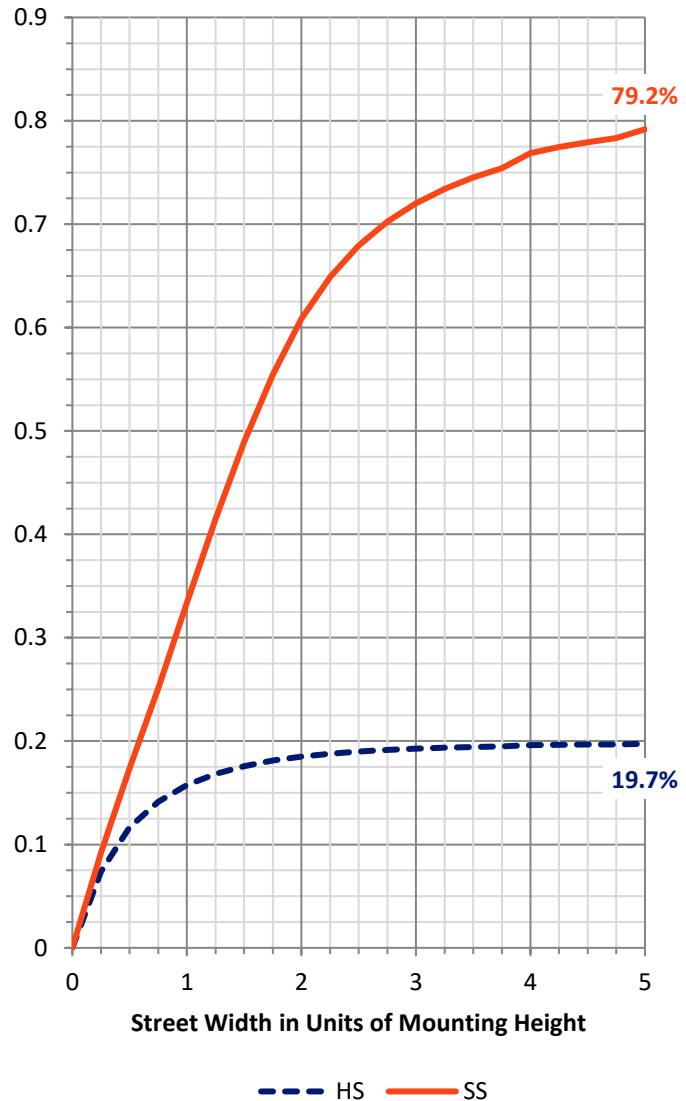
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7992.9	0.0	7992.9
	% Fixture	19.9	0.0	19.9
<b>Street Side</b>	Lumens	32218.9	0.0	32218.9
	% Fixture	80.1	0.0	80.1
<b>Total</b>	Lumens	40211.8	0.0	40211.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	548.2	1.4
10°-20°	1643.3	4.1
20°-30°	2420.9	6.0
30°-40°	3110.3	7.7
40°-50°	5030.2	12.5
50°-60°	8820.9	21.9
60°-70°	11037.4	27.4
70°-80°	6449.8	16.0
80°-90°	1150.7	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°	40211.8	100.0
0°-180°	40211.8	100.0

**Coefficient of Utilization**



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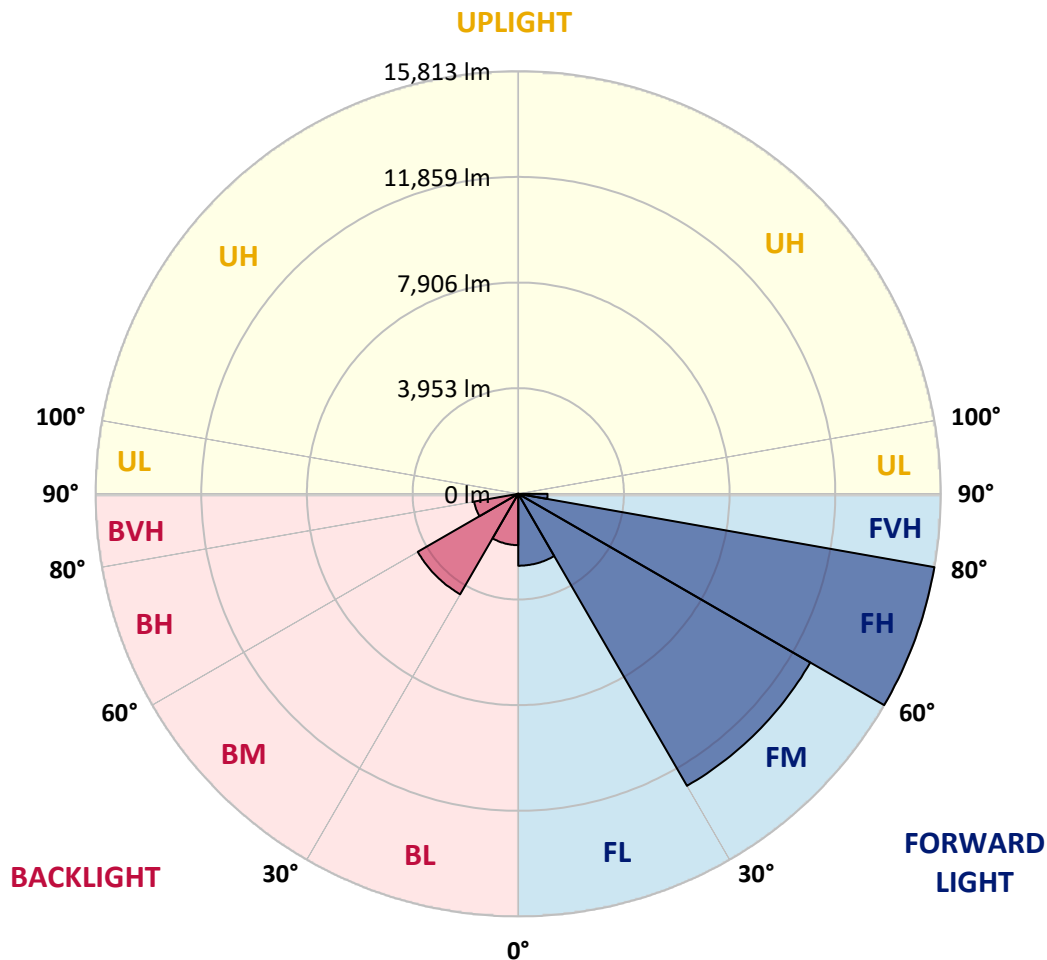
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2690.6	6.7			
FM (30°-60°)	12618.9	31.4			
FH (60°-80°)	15812.5	39.3			G5
FVH (80°-90°)	1096.8	2.7			G5
BL (0°-30°)	1921.8	4.8	B3/2500		
BM (30°-60°)	4342.5	10.8	B3/5000		
BH (60°-80°)	1674.6	4.2	B3/2500		G3/2500
BVH (80°-90°)	53.9	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°	5568.0	5568.0	5568.0	5568.0	5568.0	5568.0	5568.0	5568.0	5568.0	5568.0	5568.0
2.5°	6238.5	6285.5	6390.8	6446.2	6532.0	6537.7	6537.7	6462.8	6460.1	6307.6	6291.0
5°	6972.6	7083.4	7332.6	7590.2	7645.7	7659.5	7631.8	7482.2	7371.4	7075.1	7011.3
7.5°	7701.0	7914.3	8293.9	8637.4	8748.2	8748.2	8681.8	8437.9	8210.8	7781.4	7620.8
10°	8305.0	8573.7	9089.0	9474.0	9601.4	9573.7	9438.0	9130.5	8817.5	8296.7	8086.1
12.5°	8703.9	9005.9	9570.9	9881.2	10011.4	9939.4	9784.2	9485.0	9155.4	8606.9	8368.7
15°	8903.4	9219.2	9709.4	9872.9	9836.9	9762.1	9742.7	9598.6	9349.3	8836.8	8576.5
17.5°	8989.2	9282.8	9623.6	9521.1	9216.4	9158.2	9352.1	9535.0	9474.0	9036.3	8792.6
20°	9069.5	9316.1	9418.6	8964.2	8432.4	8379.8	8750.9	9271.7	9537.7	9221.9	8997.6
22.5°	9180.3	9332.7	9122.2	8377.0	7803.5	7681.7	8091.7	8875.6	9557.1	9457.4	9233.0
25°	9332.7	9374.2	8795.3	7820.2	7244.0	7122.1	7504.4	8435.1	9523.9	9712.2	9521.1
27.5°	9515.6	9429.7	8482.3	7354.8	6798.0	6684.4	7066.7	8011.3	9429.7	9967.1	9831.3
30°	9753.8	9501.6	8172.0	6994.7	6479.4	6396.3	6764.8	7645.7	9313.4	10291.2	10216.4
32.5°	9994.8	9532.2	7883.9	6784.2	6407.4	6437.9	6739.8	7449.0	9185.8	10601.5	10637.4
35°	10255.1	9629.2	7742.6	6991.9	7008.5	7274.4	7399.2	7631.8	9166.5	11022.5	11163.8
37.5°	10609.8	9845.2	7911.6	8025.1	8601.4	9152.6	9050.1	8526.6	9390.8	11651.4	11914.5
40°	11119.5	10224.7	8648.4	9784.2	10967.1	11861.9	11471.3	10152.7	10077.9	12557.2	12950.6
42.5°	11861.9	10828.6	9956.0	11933.9	13939.5	15413.2	14366.1	12249.7	11280.1	13850.8	14352.3
45°	12958.9	11806.5	11537.8	14202.7	17604.5	19925.8	17748.5	14485.2	12964.4	15809.4	16202.7
47.5°	14479.7	13244.2	13019.8	16593.3	22058.9	25061.8	21499.3	16557.3	14881.4	18479.8	18571.3
50°	16499.1	15180.6	14424.3	19208.4	26942.6	30297.4	25247.4	18557.4	17078.1	21743.1	21637.9
52.5°	19164.0	17881.4	16061.4	21698.7	31965.0	35422.2	29012.0	20313.7	19803.9	25529.9	25313.8
55°	22798.5	21945.2	18299.7	24075.5	36984.6	40577.5	32629.8	21970.3	23405.2	30028.6	28721.1
57.5°	27308.4	27917.8	21527.0	26831.8	41497.1	45890.7	36264.3	24286.0	28081.2	35059.3	30699.1
60°	30217.0	35859.8	27707.3	30906.8	46624.8	51899.1	41245.1	28690.7	32995.5	36862.7	30322.3
62.5°	29513.4	38386.2	35109.1	36109.2	51339.6	56267.7	46126.1	33114.7	33920.7	34206.1	27419.2
65°	27355.4	36347.4	33599.4	37120.3	52533.5	56514.3	47430.8	32544.0	28773.8	27926.1	22039.4
67.5°	24385.8	33929.0	30012.0	34438.8	50375.6	53068.1	45001.4	28787.6	22236.1	20956.3	15989.4
70°	21180.7	31253.1	27657.4	31430.4	46261.8	47062.5	40871.1	25319.3	16355.1	14152.8	10260.8
72.5°	18139.1	28466.3	26045.1	28347.2	40774.2	39117.6	35494.2	22252.7	11909.0	10208.1	7293.9
75°	15028.1	24355.3	23748.6	24685.0	33557.9	30812.6	29491.2	18424.4	9346.6	7385.2	5033.4
77.5°	11595.9	19031.1	20427.2	19767.9	23621.2	22887.1	22859.4	13845.3	6828.4	4928.1	3155.3
80°	7936.6	13263.6	15958.9	13945.0	15330.1	14956.2	17216.6	9288.3	4953.1	2966.9	1756.3
82.5°	4665.0	8075.1	11108.4	6751.0	8476.8	8701.1	10252.4	4518.2	2914.2	684.2	382.3
85°	1892.0	3188.5	4343.6	2642.8	4088.7	3448.8	3892.1	1268.7	811.7	16.6	0.0
87.5°	476.4	1019.5	714.7	296.4	473.7	434.9	343.5	155.1	33.2	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°	5568.0	5568.0	5568.0	5568.0	5568.0	5568.0	5568.0	5568.0	5568.0	5568.0	5568.0
2.5°	6183.0	6119.4	5961.4	5803.5	5676.0	5504.4	5390.8	5255.0	5124.8	5008.5	4986.3
5°	6836.7	6626.2	6338.2	6075.0	5806.3	5545.9	5288.3	5016.8	4767.5	4615.1	4518.2
7.5°	7368.6	6997.5	6615.1	6280.0	5955.9	5651.1	5310.4	4980.8	4590.2	4382.4	4194.0
10°	7764.8	7277.2	6775.9	6390.8	6063.9	5767.5	5479.4	5146.9	4676.0	4415.7	4133.1
12.5°	8025.1	7446.2	6859.0	6418.4	6052.8	5822.9	5695.5	5565.2	5097.1	4792.4	4382.4
15°	8205.2	7565.3	6917.1	6354.8	5906.0	5737.0	5864.4	6014.1	5714.9	5363.0	4828.4
17.5°	8401.9	7720.5	6942.0	6183.0	5620.7	5548.6	5878.3	6224.6	6210.7	5861.7	5338.1
20°	8609.7	7856.2	6925.4	5906.0	5274.4	5338.1	5759.2	6160.9	6329.9	6141.5	5676.0
22.5°	8823.0	7986.4	6861.8	5545.9	4950.3	5149.7	5570.8	5922.7	6122.1	6063.9	5709.4
25°	9091.8	8169.2	6767.6	5158.1	4681.6	4958.6	5351.9	5637.3	5775.8	5773.0	5529.3
27.5°	9413.1	8413.0	6717.6	4845.1	4490.4	4742.6	5091.6	5346.4	5443.4	5443.4	5249.4
30°	9787.0	8701.1	6662.3	4640.1	4379.6	4518.2	4789.6	5038.9	5135.9	5135.9	4972.5
32.5°	10202.5	8978.1	6529.2	4515.3	4296.5	4299.3	4471.0	4698.2	4814.5	4831.1	4714.8
35°	10701.2	9274.5	6238.5	4415.7	4199.6	4086.0	4169.1	4357.5	4496.0	4532.0	4460.0
37.5°	11354.9	9637.5	5822.9	4268.8	4050.0	3861.6	3881.1	4025.1	4177.4	4232.8	4185.7
40°	12233.1	10064.1	5390.8	4058.3	3839.4	3615.1	3606.8	3712.0	3861.6	3922.6	3897.7
42.5°	13393.8	10576.5	4978.0	3856.0	3584.6	3354.7	3340.8	3423.9	3554.1	3617.8	3606.8
45°	14878.6	11205.3	4623.4	3698.2	3335.2	3108.1	3102.6	3171.9	3285.4	3352.0	3338.0
47.5°	16942.3	11834.1	4382.4	3615.1	3138.7	2905.9	2916.9	2977.9	3080.4	3127.5	3108.1
50°	19632.2	12025.3	4260.5	3615.1	3033.4	2725.9	2781.2	2831.2	2908.6	2936.4	2911.4
52.5°	22214.0	11393.7	4149.7	3637.2	3047.2	2573.5	2692.6	2728.7	2795.1	2806.1	2770.2
55°	23480.0	9795.3	3997.4	3642.7	3133.0	2443.3	2620.6	2687.0	2712.0	2709.2	2648.3
57.5°	23045.1	7920.0	3739.7	3620.6	3191.2	2360.2	2532.0	2659.4	2676.0	2651.1	2537.5
60°	21518.6	5831.2	3543.0	3457.2	3169.1	2335.3	2396.2	2598.4	2623.4	2590.1	2404.5
62.5°	18959.0	4047.2	3390.7	3097.0	3072.1	2327.0	2182.9	2465.4	2526.4	2479.3	2207.8
65°	14925.6	2858.8	2919.7	2714.8	2861.6	2282.6	1961.2	2304.8	2387.8	2315.9	1933.6
67.5°	10100.0	2063.7	2365.7	2459.9	2520.9	2182.9	1800.6	2122.0	2232.8	2138.6	1615.0
70°	5454.4	1448.8	1562.4	2072.0	2141.3	2011.2	1656.6	1936.3	2063.7	1961.2	1315.8
72.5°	3221.7	1041.6	1094.2	1664.9	1784.0	1770.2	1495.9	1720.3	1875.4	1753.5	1069.3
75°	1775.7	703.7	781.2	1207.8	1448.8	1365.7	1285.4	1457.1	1615.0	1495.9	825.5
77.5°	795.0	421.1	542.9	792.2	1138.6	936.3	994.5	1135.8	1282.6	1157.9	551.2
80°	307.5	235.4	360.1	432.1	828.3	518.0	639.9	836.6	941.9	842.1	335.2
82.5°	38.7	105.3	155.1	169.0	482.1	274.3	371.2	526.3	518.0	448.7	169.0
85°	0.0	19.4	22.1	11.1	207.8	99.7	121.9	171.8	160.7	121.9	13.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	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°	5568.0	5568.0	5568.0	5568.0	5568.0	5568.0	5568.0	5568.0	5568.0	5568.0	5568.0
2.5°	4850.6	4750.9	4701.0	4659.4	4698.2	4720.3	4720.3	4814.5	4870.0	4892.1	5047.2
5°	4274.4	4088.7	3964.1	3889.4	3914.3	3941.9	3972.4	4091.5	4171.9	4224.5	4465.5
7.5°	3820.1	3537.5	3363.0	3271.6	3285.4	3304.8	3329.7	3446.0	3526.4	3595.7	3864.4
10°	3595.7	3196.8	2966.9	2856.1	2836.7	2825.6	2817.3	2886.5	2947.5	3002.8	3268.8
12.5°	3606.8	3050.0	2770.2	2634.5	2576.2	2509.8	2457.1	2468.2	2507.0	2576.2	2745.3
15°	3748.0	3002.8	2667.7	2498.7	2401.8	2324.2	2260.4	2246.6	2260.4	2271.5	2376.8
17.5°	3939.2	2997.3	2579.0	2368.5	2268.7	2205.1	2146.9	2127.5	2130.3	2144.1	2171.8
20°	4091.5	2980.7	2479.3	2243.8	2155.2	2099.8	2041.6	2022.2	2027.8	2030.5	2061.0
22.5°	4171.9	2955.8	2368.5	2119.2	2044.4	1989.0	1936.3	1933.6	1933.6	1950.2	1972.4
25°	4171.9	2903.1	2268.7	2000.1	1933.6	1883.7	1820.0	1831.1	1836.6	1858.7	1892.0
27.5°	4072.1	2803.4	2188.5	1897.6	1828.3	1778.5	1720.3	1734.1	1742.4	1767.4	1808.9
30°	3944.7	2684.3	2097.0	1800.6	1720.3	1684.3	1634.4	1639.9	1651.1	1678.7	1725.8
32.5°	3809.0	2543.0	2022.2	1703.7	1623.3	1595.6	1540.2	1548.6	1559.6	1590.1	1642.7
35°	3659.4	2376.8	1933.6	1615.0	1534.6	1512.5	1448.8	1454.4	1471.0	1504.2	1556.9
37.5°	3501.5	2241.1	1844.9	1529.1	1446.1	1423.8	1357.4	1362.9	1382.3	1421.1	1471.0
40°	3346.3	2108.1	1750.7	1437.8	1354.6	1335.3	1263.2	1268.7	1290.9	1332.5	1385.1
42.5°	3177.4	2005.6	1628.8	1343.6	1254.9	1235.5	1169.0	1177.3	1202.2	1243.8	1296.4
45°	2975.2	1939.1	1493.1	1254.9	1155.2	1135.8	1074.8	1091.4	1119.2	1160.7	1216.1
47.5°	2767.4	1911.4	1379.5	1160.7	1052.7	1036.1	986.2	1013.9	1044.4	1077.6	1138.6
50°	2567.9	1875.4	1263.2	1072.0	964.0	947.4	914.2	950.2	980.6	1011.2	1069.3
52.5°	2340.8	1797.8	1157.9	994.5	889.2	883.7	867.0	900.3	928.0	955.7	1005.5
55°	2105.4	1673.2	1066.5	925.3	825.5	831.1	822.8	850.4	872.6	897.5	941.9
57.5°	1900.4	1515.3	994.5	850.4	770.1	786.7	775.6	789.5	803.4	833.8	869.8
60°	1692.6	1326.9	914.2	761.8	714.7	734.1	703.7	700.9	706.4	714.7	781.2
62.5°	1412.8	1130.3	814.5	684.2	653.7	662.0	603.9	559.5	559.5	567.8	667.6
65°	1135.8	947.4	703.7	595.6	570.6	565.1	482.1	421.1	415.5	440.4	526.3
67.5°	933.6	786.7	592.9	495.9	479.3	484.8	423.8	362.8	357.3	385.1	448.7
70°	772.8	634.4	473.7	382.3	398.9	423.8	362.8	304.7	296.4	321.3	382.3
72.5°	615.0	495.9	362.8	282.6	329.6	360.1	296.4	241.0	235.4	257.6	315.8
75°	451.5	354.5	246.5	205.0	254.8	282.6	216.1	171.8	163.5	182.9	241.0
77.5°	279.8	199.5	155.1	121.9	174.6	188.4	113.6	99.7	97.0	110.8	152.3
80°	130.2	85.9	74.8	41.5	63.8	74.8	47.0	52.6	55.5	66.5	94.2
82.5°	36.0	13.8	2.8	0.0	0.0	22.1	11.1	22.1	27.7	41.5	61.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	13.8	24.9	44.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.1	22.1
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: P969274  
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**CANDELA DISTRIBUTION (continued):**

	295°	305°	315°	325°	335°	345°	355°	360°
0°	5568.0	5568.0	5568.0	5568.0	5568.0	5568.0	5568.0	5568.0
2.5°	5163.6	5274.4	5451.7	5634.5	5814.6	5997.4	6174.7	6238.5
5°	4684.4	4939.2	5291.0	5667.7	6055.6	6449.0	6809.1	6972.6
7.5°	4149.7	4515.3	5044.4	5634.5	6252.3	6870.1	7437.9	7701.0
10°	3579.1	4041.7	4645.6	5443.4	6329.9	7183.1	7964.2	8305.0
12.5°	3036.2	3520.9	4188.5	5144.2	6268.9	7363.1	8302.2	8703.9
15°	2581.8	3011.1	3731.4	4789.6	6072.2	7374.2	8462.9	8903.4
17.5°	2241.1	2520.9	3266.1	4396.2	5814.6	7271.7	8518.3	8989.2
20°	2072.0	2149.6	2662.1	3892.1	5573.5	7174.7	8573.7	9069.5
22.5°	1972.4	1991.8	2177.3	3241.0	5285.5	7144.2	8670.7	9180.3
25°	1892.0	1897.6	1947.4	2567.9	4845.1	7124.9	8820.2	9332.7
27.5°	1811.7	1811.7	1839.4	2069.3	4246.7	7041.7	9014.2	9515.6
30°	1731.3	1731.3	1750.7	1831.1	3545.8	6878.4	9246.8	9753.8
32.5°	1648.3	1648.3	1664.9	1723.0	2831.2	6673.4	9460.1	9994.8
35°	1565.2	1559.6	1581.8	1642.7	2252.1	6412.9	9673.4	10255.1
37.5°	1476.5	1473.7	1495.9	1565.2	1944.6	6110.9	9834.2	10609.8
40°	1382.3	1382.3	1407.2	1482.0	1856.0	5731.5	10089.0	11119.5
42.5°	1296.4	1290.9	1318.6	1410.0	1789.5	5368.6	10546.0	11861.9
45°	1213.3	1202.2	1227.2	1340.8	1673.2	5241.1	11399.2	12958.9
47.5°	1135.8	1108.0	1130.3	1257.7	1567.9	5717.7	12795.4	14479.7
50°	1072.0	1019.5	1038.8	1174.5	1487.6	6751.0	14607.1	16499.1
52.5°	1005.5	936.3	947.4	1072.0	1415.5	7734.3	16571.2	19164.0
55°	936.3	858.7	864.3	969.5	1313.0	7881.1	18488.1	22798.5
57.5°	858.7	786.7	786.7	875.4	1238.3	6831.2	19961.9	27308.4
60°	772.8	725.8	712.0	800.6	1304.7	4820.1	20133.6	30217.0
62.5°	678.7	653.7	634.4	728.6	1354.6	2856.1	18751.2	29513.4
65°	570.6	565.1	551.2	800.6	1141.3	1687.0	16097.4	27355.4
67.5°	479.3	470.9	470.9	839.4	867.0	1061.0	12576.5	24385.8
70°	412.8	382.3	382.3	634.4	526.3	734.1	8781.5	21180.7
72.5°	346.2	313.0	290.9	507.0	393.4	537.4	5487.7	18139.1
75°	277.1	252.0	224.4	335.2	293.7	407.2	3188.5	15028.1
77.5°	199.5	188.4	157.8	246.5	213.3	293.7	1897.6	11595.9
80°	102.5	105.3	99.7	141.2	144.0	199.5	1080.4	7936.6
82.5°	61.0	47.0	52.6	69.3	83.1	113.6	407.2	4665.0
85°	38.7	24.9	24.9	33.2	41.5	44.3	124.6	1892.0
87.5°	19.4	8.3	11.1	16.6	13.8	11.1	5.5	476.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)