

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: P964593

Luminaire Tested: **NAV-SB3C-740-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964593
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-740-U-SLL-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 4000K, 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: 18596.6 lumens
Efficiency: N/A
Efficacy: 124.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

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



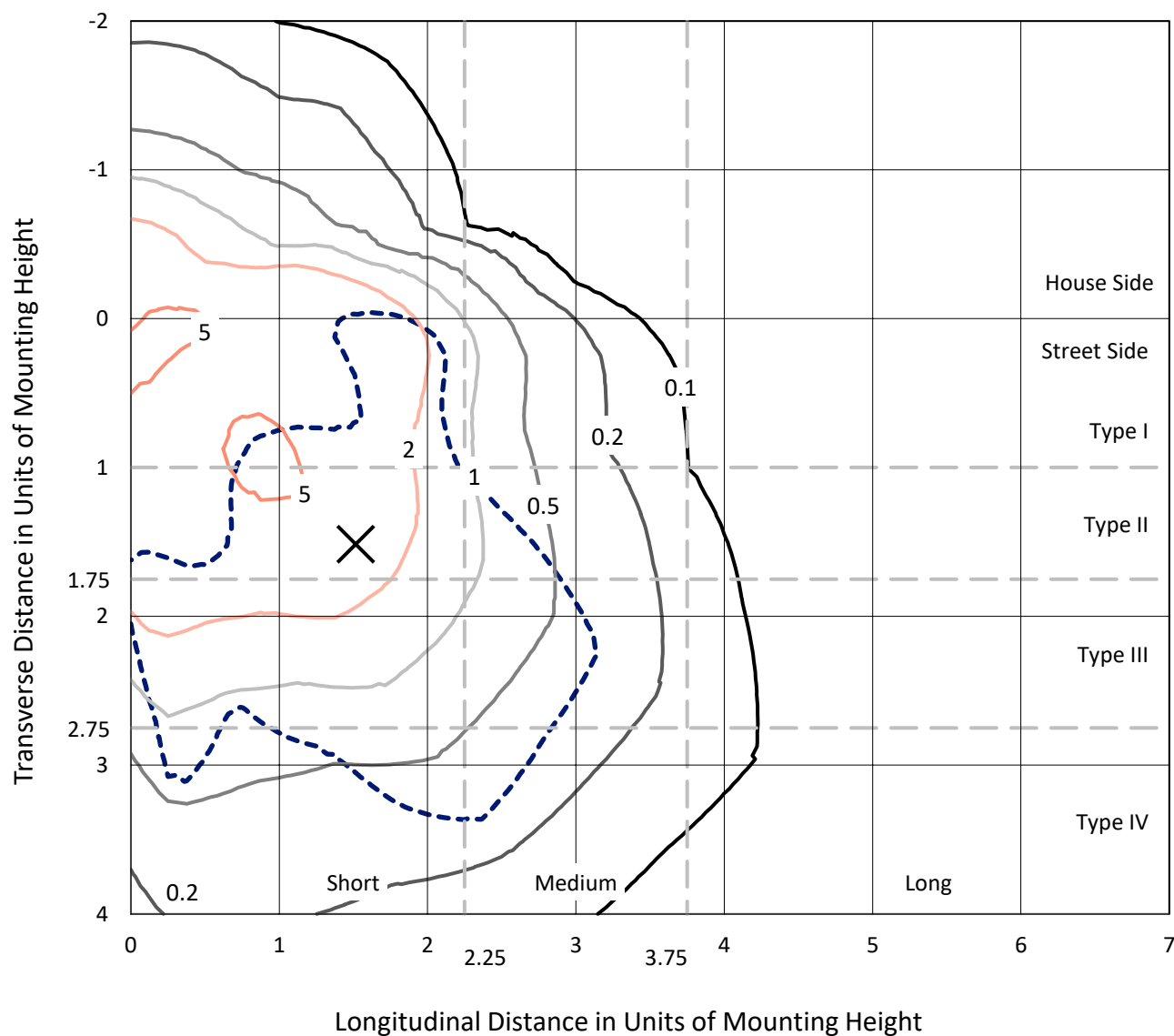
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

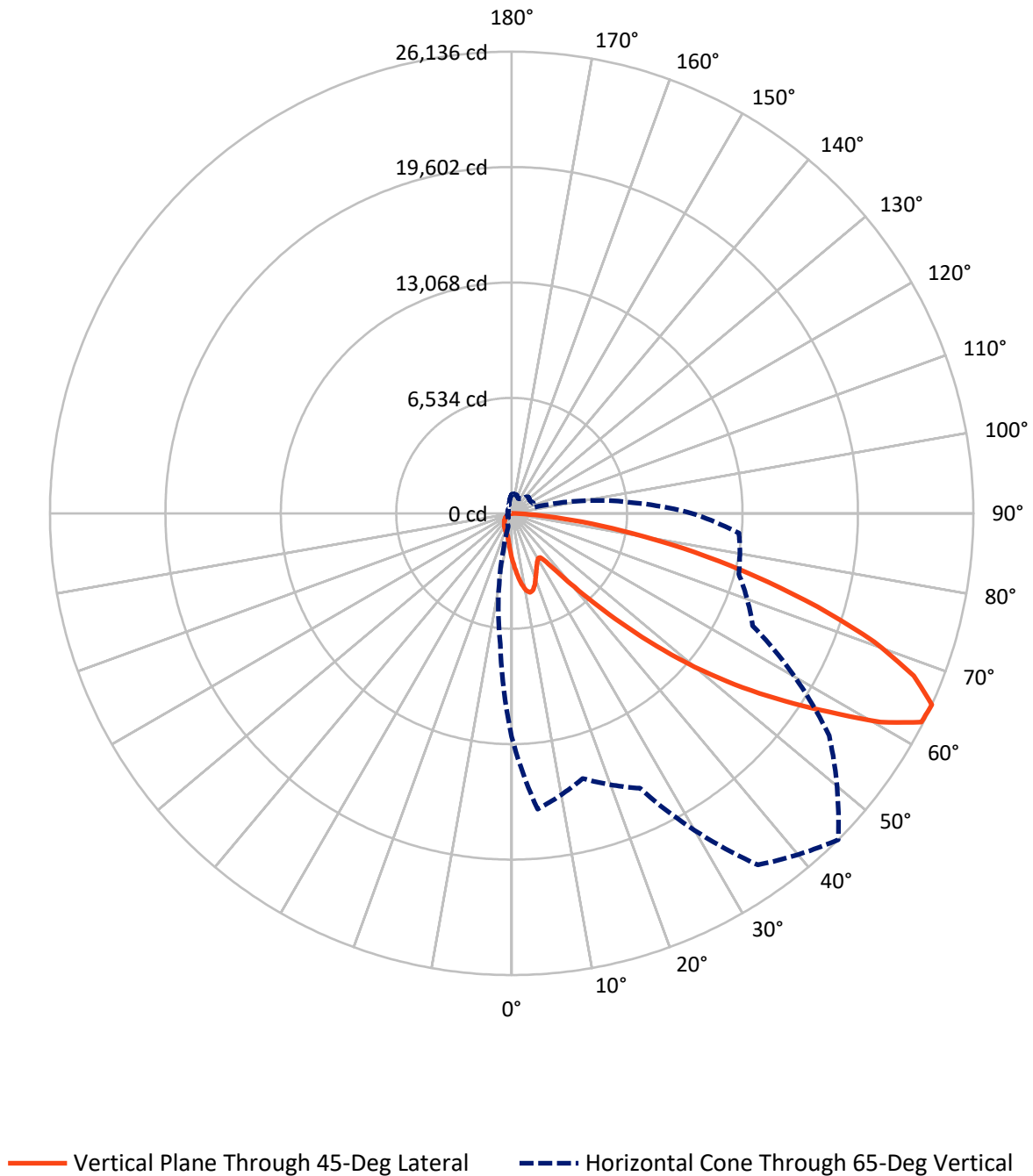


Based on 25 foot mounting height. Maximum calculated value = 6.8 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3696.4	0.0	3696.4
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	14900.1	0.0	14900.1
	% Fixture	80.1	0.0	80.1
Total	Lumens	18596.6	0.0	18596.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.5	1.4
10°-20°	760.0	4.1
20°-30°	1119.6	6.0
30°-40°	1438.4	7.7
40°-50°	2326.3	12.5
50°-60°	4079.4	21.9
60°-70°	5104.4	27.4
70°-80°	2982.8	16.0
80°-90°	532.2	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°	18596.6	100.0
0°-180°	18596.6	100.0

Coefficient of Utilization



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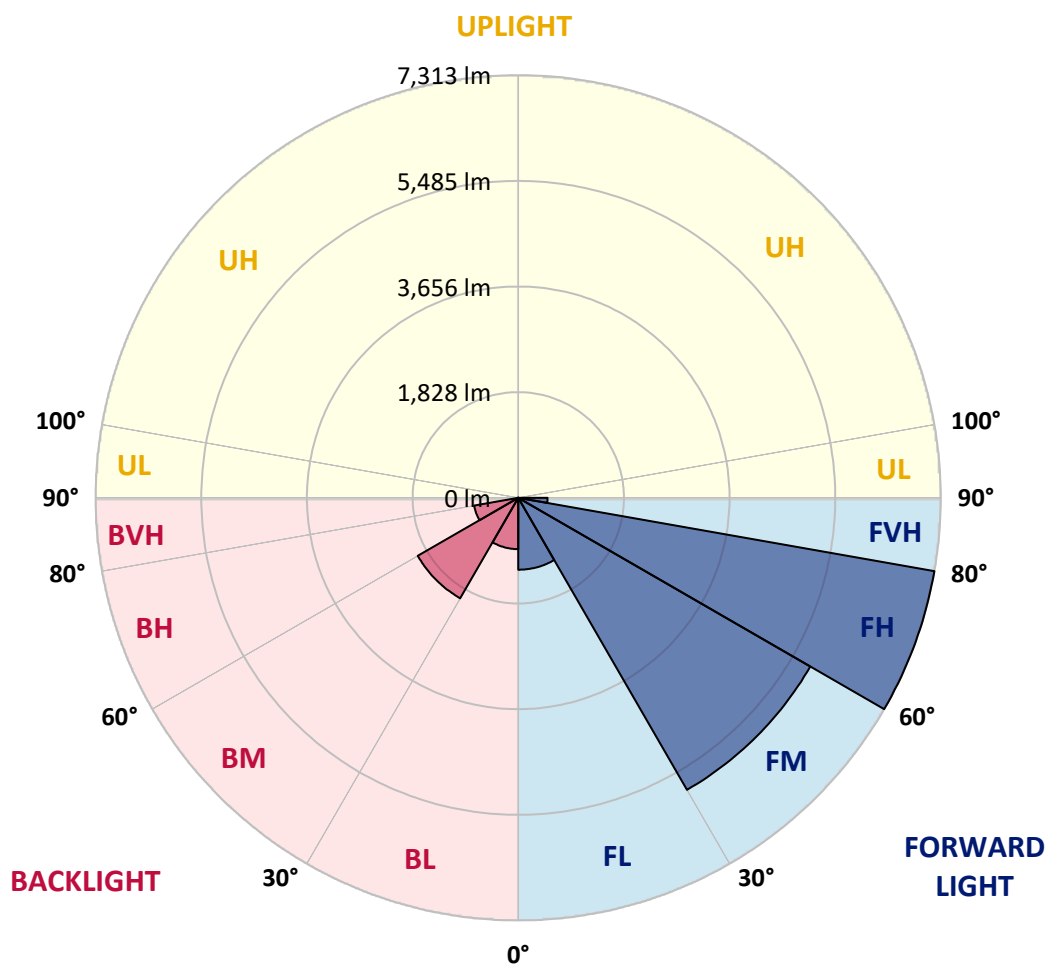
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1244.3	6.7			
FM	(30°-60°)	5835.8	31.4			
FH	(60°-80°)	7312.7	39.3			G3/7500
FVH	(80°-90°)	507.2	2.7			G4/750
BL	(0°-30°)	888.8	4.8	B2/1000		
BM	(30°-60°)	2008.2	10.8	B2/2500		
BH	(60°-80°)	774.5	4.2	B2/1000		G2/1000
BVH	(80°-90°)	24.9	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2575.0	2575.0	2575.0	2575.0	2575.0	2575.0	2575.0	2575.0	2575.0	2575.0	2575.0
2.5°	2885.1	2906.8	2955.5	2981.1	3020.9	3023.4	3023.4	2988.8	2987.6	2917.0	2909.4
5°	3224.5	3275.8	3391.1	3510.2	3535.8	3542.3	3529.5	3460.3	3409.0	3272.0	3242.5
7.5°	3561.5	3660.2	3835.7	3994.5	4045.8	4045.8	4015.0	3902.3	3797.2	3598.7	3524.4
10°	3840.8	3965.0	4203.3	4381.4	4440.3	4427.5	4364.8	4222.5	4077.8	3836.9	3739.6
12.5°	4025.3	4164.9	4426.3	4569.8	4629.9	4596.6	4524.9	4386.5	4234.1	3980.4	3870.2
15°	4117.5	4263.5	4490.3	4565.9	4549.3	4514.6	4505.7	4439.1	4323.8	4086.8	3966.3
17.5°	4157.2	4293.0	4450.5	4403.2	4262.3	4235.3	4325.0	4409.5	4381.4	4179.0	4066.3
20°	4194.4	4308.4	4355.7	4145.7	3899.7	3875.3	4047.0	4287.9	4410.9	4264.8	4161.1
22.5°	4245.5	4316.1	4218.7	3874.1	3608.9	3552.5	3742.2	4104.7	4419.8	4373.7	4269.9
25°	4316.1	4335.2	4067.5	3616.6	3350.1	3293.7	3470.5	3900.9	4404.4	4491.5	4403.2
27.5°	4400.6	4360.9	3922.8	3401.4	3143.9	3091.3	3268.1	3705.0	4360.9	4609.4	4546.7
30°	4510.8	4394.2	3779.3	3234.8	2996.5	2958.0	3128.5	3535.8	4307.0	4759.3	4724.7
32.5°	4622.2	4408.3	3646.0	3137.4	2963.2	2977.3	3116.9	3444.9	4248.1	4902.8	4919.5
35°	4742.7	4453.1	3580.7	3233.6	3241.3	3364.2	3421.9	3529.5	4239.2	5097.5	5162.8
37.5°	4906.7	4553.0	3658.8	3711.4	3977.8	4232.7	4185.4	3943.3	4342.9	5388.3	5510.1
40°	5142.4	4728.5	3999.7	4524.9	5071.9	5485.7	5305.1	4695.2	4660.7	5807.2	5989.2
42.5°	5485.7	5007.8	4604.3	5519.0	6446.5	7128.1	6643.8	5665.1	5216.6	6405.5	6637.4
45°	5993.1	5460.1	5335.8	6568.2	8141.5	9215.1	8208.1	6698.9	5995.6	7311.3	7493.2
47.5°	6696.3	6125.0	6021.3	7673.9	10201.5	11590.2	9942.7	7657.2	6882.2	8546.2	8588.6
50°	7630.3	7020.5	6670.7	8883.3	12460.1	14011.5	11676.1	8582.1	7898.0	10055.5	10006.8
52.5°	8862.8	8269.6	7427.9	10035.0	14782.8	16381.6	13417.0	9394.3	9158.7	11806.7	11706.7
55°	10543.6	10148.9	8463.0	11134.2	17104.1	18765.7	15090.2	10160.5	10824.1	13887.2	13282.6
57.5°	12629.2	12911.0	9955.5	12408.9	19191.1	21222.8	16771.0	11231.5	12986.6	16213.8	14197.3
60°	13974.3	16584.0	12813.6	14293.3	21562.3	24001.6	19074.4	13268.4	15259.3	17047.7	14023.0
62.5°	13648.9	17752.4	16236.8	16699.3	23742.8	26021.9	21331.8	15314.4	15687.2	15819.1	12680.4
65°	12651.0	16809.5	15538.6	17166.9	24295.0	26136.0	21935.2	15050.5	13306.9	12914.9	10192.5
67.5°	11277.6	15691.0	13879.5	15926.8	23297.0	24542.2	20811.6	13313.3	10283.5	9691.6	7394.6
70°	9795.4	14453.5	12790.6	14535.4	21394.5	21764.7	18901.5	11709.3	7563.7	6545.2	4745.2
72.5°	8388.7	13164.7	12045.0	13109.5	18856.6	18090.5	16414.9	10291.2	5507.5	4720.8	3373.2
75°	6950.0	11263.5	10983.0	11415.9	15519.3	14249.8	13638.6	8520.6	4322.4	3415.4	2327.8
77.5°	5362.7	8801.3	9446.9	9142.0	10924.0	10584.6	10571.7	6403.0	3157.9	2279.1	1459.2
80°	3670.4	6133.9	7380.5	6449.1	7089.6	6916.7	7962.1	4295.6	2290.7	1372.1	812.2
82.5°	2157.4	3734.5	5137.3	3122.0	3920.2	4023.9	4741.3	2089.5	1347.8	316.4	176.8
85°	875.0	1474.6	2008.8	1222.2	1890.9	1595.0	1800.0	586.7	375.4	7.7	0.0
87.5°	220.4	471.4	330.6	137.0	219.0	201.1	158.9	71.8	15.4	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°	2575.0	2575.0	2575.0	2575.0	2575.0	2575.0	2575.0	2575.0	2575.0	2575.0	2575.0
2.5°	2859.4	2829.9	2756.9	2684.0	2625.0	2545.6	2493.0	2430.3	2370.0	2316.3	2306.0
5°	3161.8	3064.4	2931.2	2809.4	2685.2	2564.8	2445.6	2320.1	2204.8	2134.4	2089.5
7.5°	3407.7	3236.1	3059.3	2904.2	2754.4	2613.4	2455.9	2303.5	2122.8	2026.7	1939.6
10°	3591.0	3365.5	3133.6	2955.5	2804.4	2667.3	2534.0	2380.3	2162.5	2042.1	1911.4
12.5°	3711.4	3443.6	3172.1	2968.3	2799.3	2692.9	2633.9	2573.8	2357.2	2216.4	2026.7
15°	3794.7	3498.7	3198.9	2938.9	2731.3	2653.2	2712.1	2781.3	2643.0	2480.2	2233.0
17.5°	3885.6	3570.5	3210.5	2859.4	2599.4	2566.1	2718.5	2878.6	2872.3	2710.8	2468.7
20°	3981.7	3633.2	3202.8	2731.3	2439.2	2468.7	2663.5	2849.2	2927.3	2840.2	2625.0
22.5°	4080.3	3693.5	3173.3	2564.8	2289.3	2381.6	2576.3	2739.0	2831.3	2804.4	2640.4
25°	4204.7	3777.9	3129.7	2385.4	2165.1	2293.2	2475.1	2607.1	2671.1	2669.8	2557.1
27.5°	4353.2	3890.7	3106.7	2240.6	2076.6	2193.3	2354.6	2472.5	2517.4	2517.4	2427.7
30°	4526.2	4023.9	3081.0	2145.8	2025.4	2089.5	2215.0	2330.3	2375.1	2375.1	2299.6
32.5°	4718.3	4152.1	3019.5	2088.2	1987.0	1988.3	2067.7	2172.8	2226.6	2234.3	2180.5
35°	4948.9	4289.1	2885.1	2042.1	1942.2	1889.6	1928.0	2015.2	2079.2	2095.9	2062.6
37.5°	5251.3	4457.0	2692.9	1974.2	1873.0	1785.9	1794.9	1861.5	1931.9	1957.5	1935.7
40°	5657.4	4654.3	2493.0	1876.8	1775.6	1671.9	1668.0	1716.7	1785.9	1814.0	1802.6
42.5°	6194.2	4891.3	2302.1	1783.3	1657.7	1551.4	1545.0	1583.4	1643.7	1673.1	1668.0
45°	6880.8	5182.1	2138.1	1710.3	1542.4	1437.4	1434.8	1466.9	1519.4	1550.1	1543.8
47.5°	7835.3	5472.9	2026.7	1671.9	1451.5	1343.9	1349.0	1377.2	1424.5	1446.4	1437.4
50°	9079.2	5561.3	1970.4	1671.9	1402.8	1260.6	1286.3	1309.3	1345.2	1358.0	1346.4
52.5°	10273.3	5269.2	1919.1	1682.1	1409.2	1190.1	1245.3	1261.9	1292.6	1297.8	1281.1
55°	10858.6	4530.0	1848.7	1684.7	1448.9	1130.0	1212.0	1242.7	1254.2	1253.0	1224.8
57.5°	10657.5	3662.7	1729.5	1674.4	1475.8	1091.5	1171.0	1229.9	1237.6	1226.0	1173.5
60°	9951.6	2696.8	1638.6	1598.8	1465.5	1079.9	1108.1	1201.7	1213.2	1197.8	1112.0
62.5°	8768.0	1871.8	1568.0	1432.2	1420.8	1076.1	1009.5	1140.2	1168.4	1146.6	1021.0
65°	6902.7	1322.1	1350.3	1255.5	1323.4	1055.6	907.0	1065.9	1104.3	1071.0	894.2
67.5°	4670.9	954.4	1094.1	1137.6	1165.8	1009.5	832.7	981.3	1032.6	989.0	746.9
70°	2522.5	670.0	722.5	958.3	990.3	930.1	766.1	895.5	954.4	907.0	608.5
72.5°	1489.9	481.6	506.0	770.0	825.0	818.7	691.8	795.6	867.4	811.0	494.5
75°	821.2	325.4	361.3	558.5	670.0	631.6	594.4	673.8	746.9	691.8	381.8
77.5°	367.7	194.7	251.1	366.4	526.5	433.1	459.9	525.2	593.2	535.5	254.9
80°	142.2	108.9	166.6	199.9	383.0	239.5	295.9	386.9	435.6	389.5	155.0
82.5°	17.9	48.7	71.8	78.1	222.9	126.8	171.7	243.4	239.5	207.6	78.1
85°	0.0	8.9	10.2	5.1	96.0	46.1	56.4	79.4	74.3	56.4	6.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	2575.0	2575.0	2575.0	2575.0	2575.0	2575.0	2575.0	2575.0	2575.0	2575.0	2575.0
2.5°	2243.2	2197.1	2174.0	2154.9	2172.8	2183.0	2183.0	2226.6	2252.2	2262.5	2334.2
5°	1976.7	1890.9	1833.3	1798.7	1810.3	1823.1	1837.1	1892.2	1929.4	1953.6	2065.2
7.5°	1766.7	1636.0	1555.2	1513.0	1519.4	1528.4	1539.9	1593.7	1630.9	1662.9	1787.2
10°	1662.9	1478.4	1372.1	1320.8	1311.9	1306.8	1302.9	1335.0	1363.1	1388.8	1511.7
12.5°	1668.0	1410.5	1281.1	1218.3	1191.5	1160.7	1136.3	1141.4	1159.4	1191.5	1269.6
15°	1733.4	1388.8	1233.7	1155.6	1110.7	1074.8	1045.4	1038.9	1045.4	1050.5	1099.2
17.5°	1821.7	1386.2	1192.7	1095.3	1049.2	1019.8	992.8	983.9	985.1	991.6	1004.4
20°	1892.2	1378.5	1146.6	1037.7	996.7	971.1	944.1	935.2	937.8	939.0	953.1
22.5°	1929.4	1366.9	1095.3	980.0	945.5	919.8	895.5	894.2	894.2	901.9	912.1
25°	1929.4	1342.6	1049.2	925.0	894.2	871.1	841.7	846.9	849.4	859.7	875.0
27.5°	1883.2	1296.5	1012.1	877.6	845.5	822.5	795.6	802.0	805.9	817.3	836.6
30°	1824.3	1241.4	969.8	832.7	795.6	778.9	755.8	758.4	763.5	776.3	798.2
32.5°	1761.6	1176.1	935.2	787.9	750.7	737.9	712.3	716.2	721.3	735.3	759.7
35°	1692.4	1099.2	894.2	746.9	709.7	699.5	670.0	672.6	680.3	695.7	720.0
37.5°	1619.3	1036.4	853.2	707.1	668.7	658.5	627.7	630.3	639.3	657.2	680.3
40°	1547.5	974.9	809.6	664.9	626.5	617.5	584.1	586.7	597.0	616.2	640.5
42.5°	1469.4	927.5	753.3	621.4	580.4	571.3	540.6	544.5	556.0	575.2	599.5
45°	1376.0	896.8	690.5	580.4	534.2	525.2	497.0	504.7	517.5	536.8	562.4
47.5°	1279.8	884.0	638.0	536.8	486.8	479.1	456.1	468.8	483.0	498.4	526.5
50°	1187.6	867.4	584.1	495.8	445.9	438.2	422.8	439.4	453.6	467.6	494.5
52.5°	1082.5	831.5	535.5	459.9	411.2	408.7	401.0	416.4	429.2	442.0	465.0
55°	973.6	773.8	493.2	427.9	381.8	384.4	380.5	393.3	403.5	415.1	435.6
57.5°	878.8	700.8	459.9	393.3	356.2	363.9	358.7	365.1	371.6	385.6	402.3
60°	782.8	613.7	422.8	352.3	330.6	339.5	325.4	324.1	326.7	330.6	361.3
62.5°	653.3	522.6	376.7	316.4	302.4	306.2	279.3	258.8	258.8	262.6	308.7
65°	525.2	438.2	325.4	275.4	263.9	261.4	222.9	194.7	192.2	203.7	243.4
67.5°	431.7	363.9	274.2	229.3	221.6	224.2	196.0	167.8	165.2	178.0	207.6
70°	357.4	293.4	219.0	176.8	184.5	196.0	167.8	140.9	137.0	148.6	176.8
72.5°	284.4	229.3	167.8	130.7	152.4	166.6	137.0	111.4	108.9	119.1	146.1
75°	208.8	164.0	114.0	94.8	117.9	130.7	99.9	79.4	75.5	84.6	111.4
77.5°	129.4	92.2	71.8	56.4	80.7	87.1	52.5	46.1	44.8	51.2	70.4
80°	60.2	39.7	34.5	19.2	29.4	34.5	21.7	24.3	25.6	30.7	43.6
82.5°	16.6	6.4	1.2	0.0	0.0	10.2	5.1	10.2	12.8	19.2	28.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	6.4	11.5	20.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1	10.2
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: P964593

CATALOG NUMBER: NAV-SB3C-740-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	2575.0	2575.0	2575.0	2575.0	2575.0	2575.0	2575.0	2575.0
2.5°	2387.9	2439.2	2521.2	2605.8	2689.1	2773.6	2855.5	2885.1
5°	2166.3	2284.2	2446.9	2621.1	2800.5	2982.4	3149.0	3224.5
7.5°	1919.1	2088.2	2332.9	2605.8	2891.4	3177.2	3439.8	3561.5
10°	1655.2	1869.2	2148.4	2517.4	2927.3	3321.9	3683.2	3840.8
12.5°	1404.1	1628.3	1937.0	2379.0	2899.1	3405.2	3839.4	4025.3
15°	1194.0	1392.6	1725.7	2215.0	2808.2	3410.3	3913.8	4117.5
17.5°	1036.4	1165.8	1510.4	2033.1	2689.1	3362.9	3939.4	4157.2
20°	958.3	994.1	1231.1	1800.0	2577.6	3318.0	3965.0	4194.4
22.5°	912.1	921.2	1007.0	1498.9	2444.3	3304.0	4009.9	4245.5
25°	875.0	877.6	900.7	1187.6	2240.6	3295.0	4079.1	4316.1
27.5°	837.8	837.8	850.6	956.9	1963.9	3256.6	4168.8	4400.6
30°	800.7	800.7	809.6	846.9	1639.8	3181.0	4276.3	4510.8
32.5°	762.3	762.3	770.0	796.8	1309.3	3086.2	4375.0	4622.2
35°	723.9	721.3	731.5	759.7	1041.5	2965.7	4473.6	4742.7
37.5°	682.9	681.5	691.8	723.9	899.3	2826.1	4547.9	4906.7
40°	639.3	639.3	650.8	685.4	858.3	2650.6	4665.8	5142.4
42.5°	599.5	597.0	609.8	652.1	827.6	2482.8	4877.2	5485.7
45°	561.1	556.0	567.5	620.0	773.8	2423.8	5271.8	5993.1
47.5°	525.2	512.4	522.6	581.6	725.1	2644.2	5917.4	6696.3
50°	495.8	471.4	480.4	543.1	688.0	3122.0	6755.3	7630.3
52.5°	465.0	433.1	438.2	495.8	654.7	3576.8	7663.6	8862.8
55°	433.1	397.2	399.7	448.4	607.2	3644.8	8550.1	10543.6
57.5°	397.2	363.9	363.9	404.9	572.7	3159.3	9231.7	12629.2
60°	357.4	335.7	329.2	370.2	603.4	2229.2	9311.1	13974.3
62.5°	313.9	302.4	293.4	336.9	626.5	1320.8	8671.8	13648.9
65°	263.9	261.4	254.9	370.2	527.8	780.2	7444.6	12651.0
67.5°	221.6	217.8	217.8	388.2	401.0	490.7	5816.3	11277.6
70°	190.9	176.8	176.8	293.4	243.4	339.5	4061.2	9795.4
72.5°	160.1	144.7	134.5	234.4	181.9	248.6	2537.9	8388.7
75°	128.1	116.5	103.7	155.0	135.8	188.3	1474.6	6950.0
77.5°	92.2	87.1	73.0	114.0	98.6	135.8	877.6	5362.7
80°	47.4	48.7	46.1	65.3	66.6	92.2	499.6	3670.4
82.5°	28.2	21.7	24.3	32.0	38.4	52.5	188.3	2157.4
85°	17.9	11.5	11.5	15.4	19.2	20.5	57.6	875.0
87.5°	8.9	3.8	5.1	7.7	6.4	5.1	2.6	220.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)