

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: P964066

Luminaire Tested: **NAV-SB3B-740-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964066
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-SB3B-740-U-SLL-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 4000K, 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: 13983 lumens
Efficiency: N/A
Efficacy: 128.0 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): 109.2
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



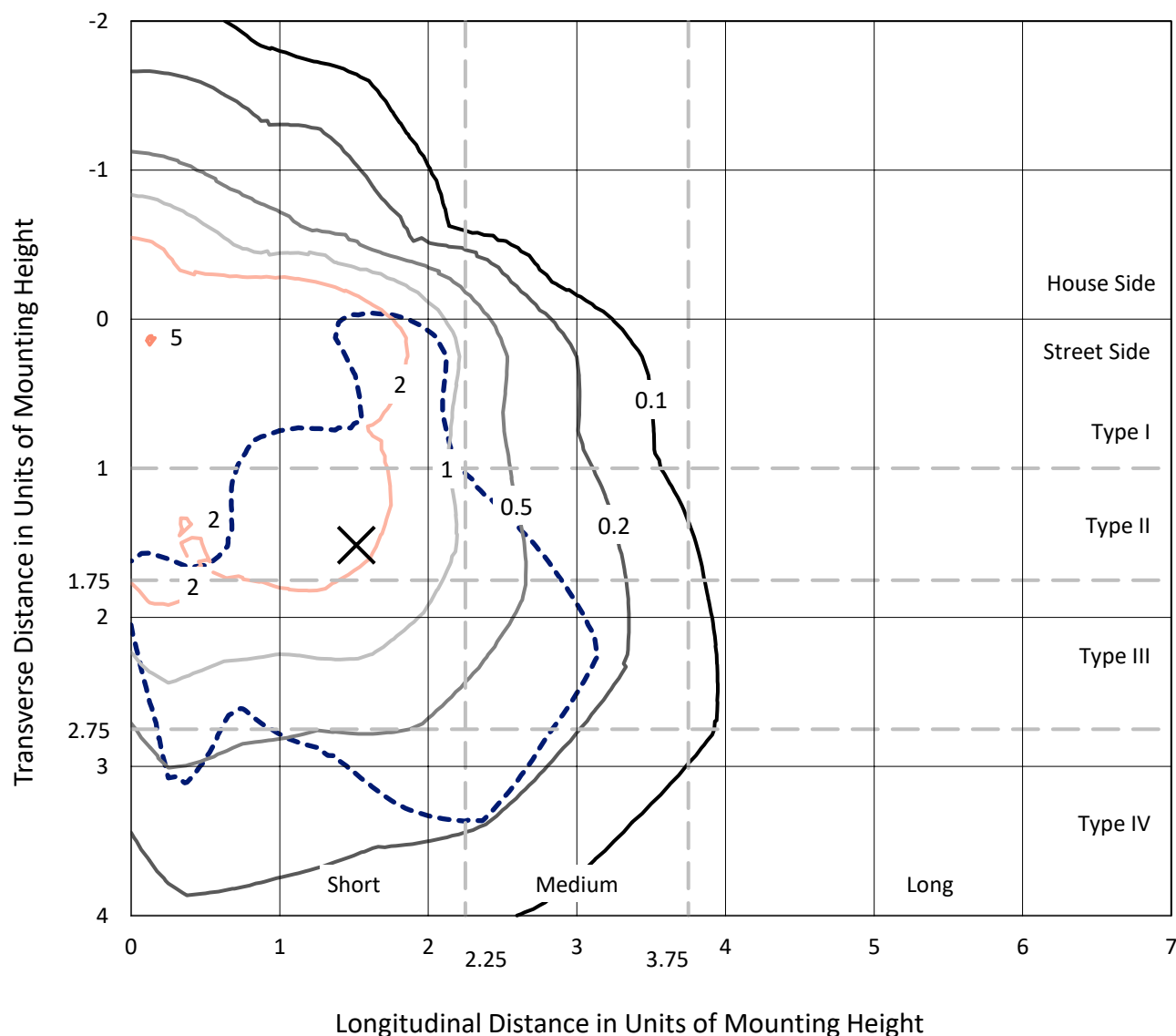
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

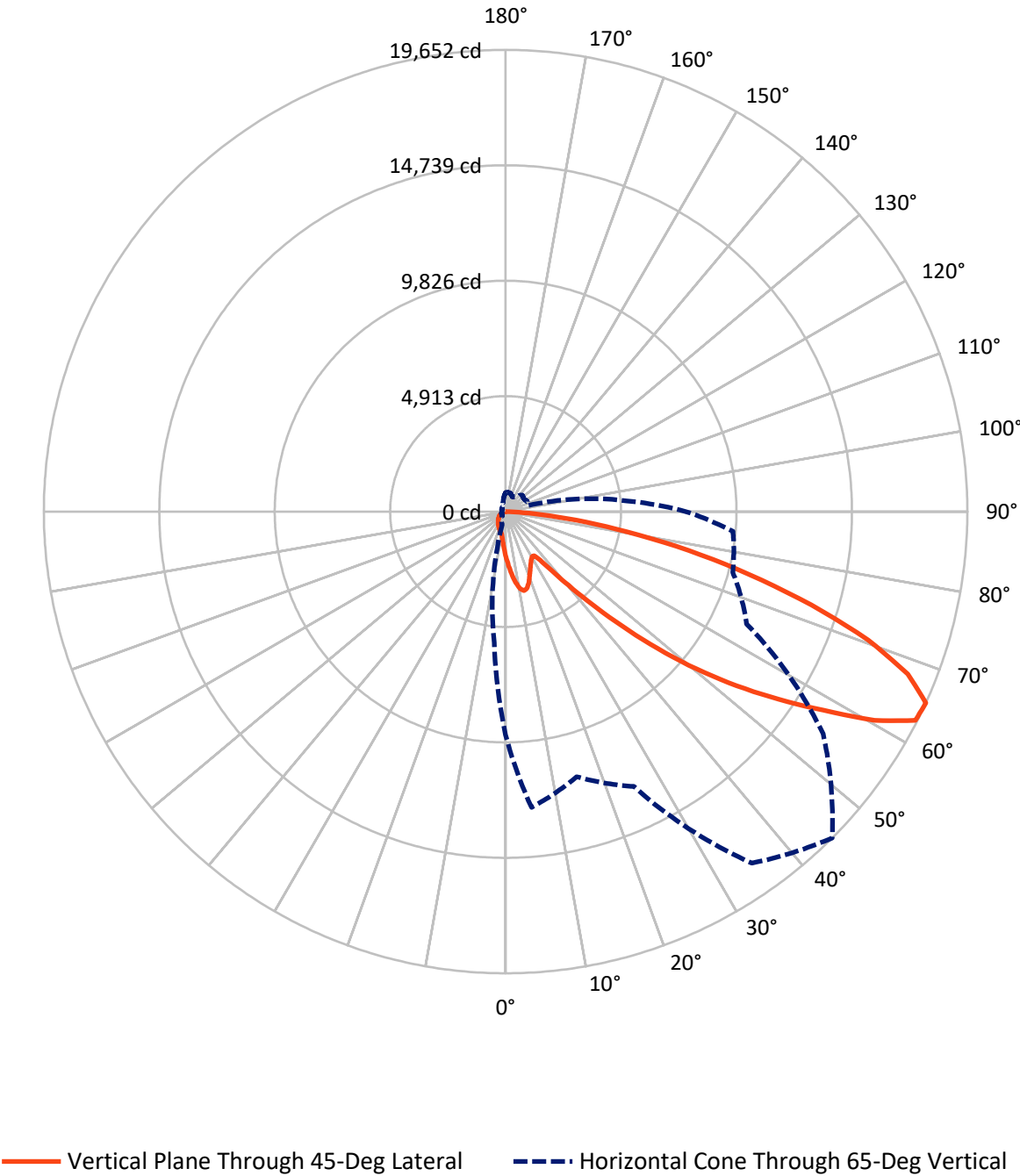


Based on 25 foot mounting height. Maximum calculated value = 5.1 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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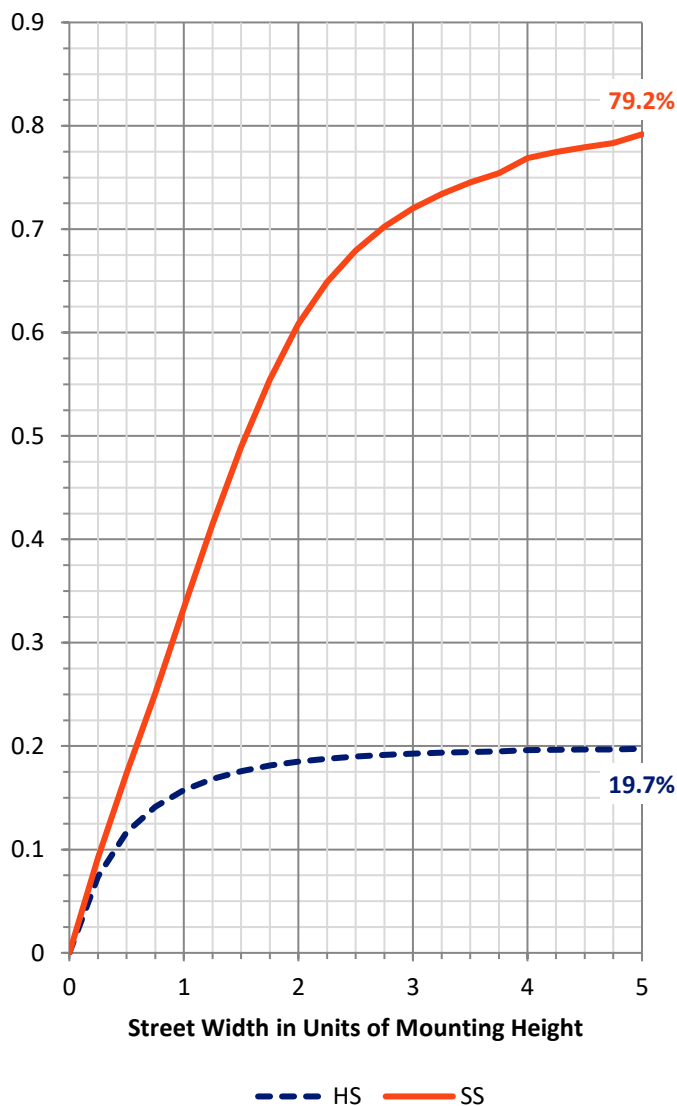
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2779.4	0.0	2779.4
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	11203.6	0.0	11203.6
	% Fixture	80.1	0.0	80.1
Total	Lumens	13983.0	0.0	13983.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.6	1.4
10°-20°	571.4	4.1
20°-30°	841.8	6.0
30°-40°	1081.5	7.7
40°-50°	1749.2	12.5
50°-60°	3067.3	21.9
60°-70°	3838.1	27.4
70°-80°	2242.8	16.0
80°-90°	400.2	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°	13983.0	100.0
0°-180°	13983.0	100.0

Coefficient of Utilization



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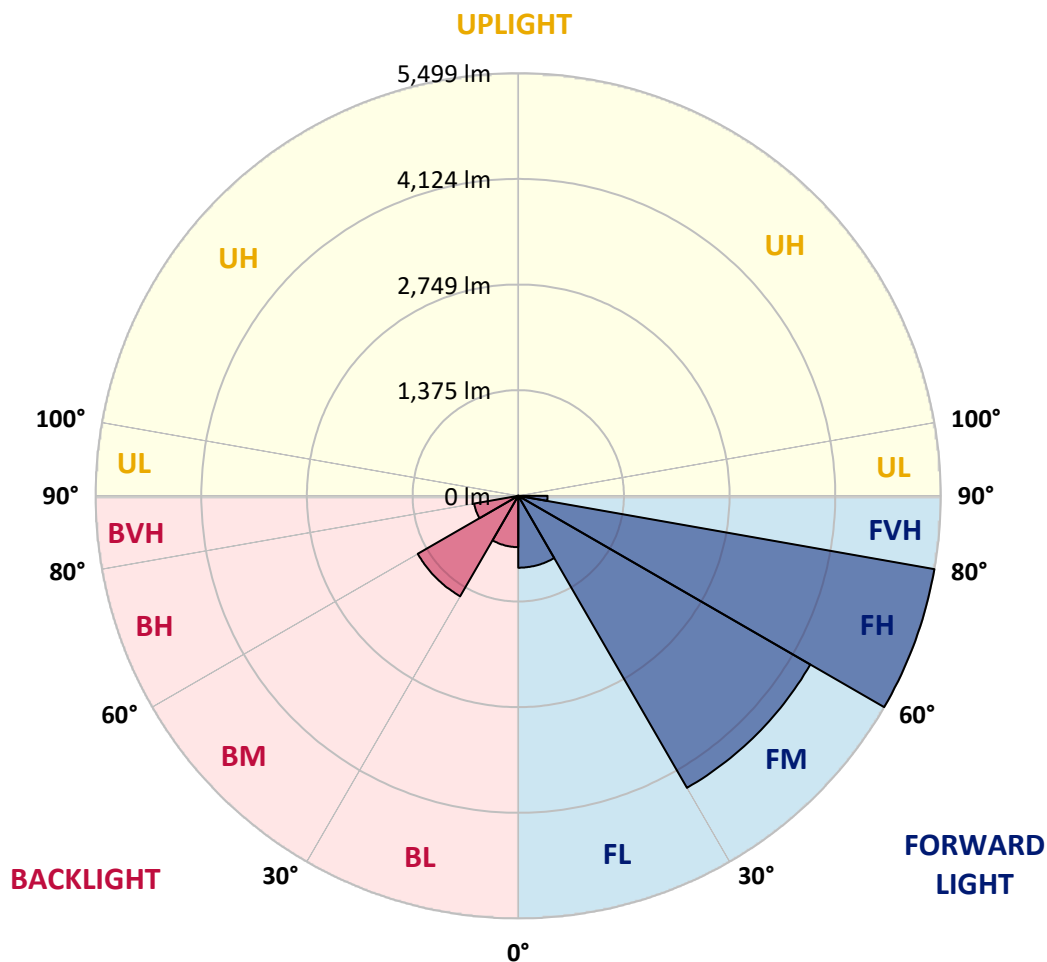
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	935.6	6.7			
FM	(30°-60°)	4388.0	31.4			
FH	(60°-80°)	5498.6	39.3			G3/7500
FVH	(80°-90°)	381.4	2.7			G3/500
BL	(0°-30°)	668.3	4.8	B2/1000		
BM	(30°-60°)	1510.0	10.8	B2/2500		
BH	(60°-80°)	582.3	4.2	B2/1000		G2/1000
BVH	(80°-90°)	18.7	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°	1936.2	1936.2	1936.2	1936.2	1936.2	1936.2	1936.2	1936.2	1936.2	1936.2	1936.2
2.5°	2169.3	2185.7	2222.3	2241.6	2271.4	2273.3	2273.3	2247.3	2246.4	2193.4	2187.7
5°	2424.6	2463.1	2549.8	2639.4	2658.6	2663.5	2653.8	2601.9	2563.3	2460.2	2438.1
7.5°	2677.9	2752.1	2884.0	3003.6	3042.1	3042.1	3018.9	2934.2	2855.1	2705.9	2650.0
10°	2887.9	2981.4	3160.6	3294.5	3338.7	3329.1	3281.9	3175.0	3066.2	2885.1	2811.9
12.5°	3026.6	3131.7	3328.2	3436.0	3481.3	3456.3	3402.3	3298.2	3183.6	2992.9	2910.1
15°	3096.0	3205.8	3376.4	3433.1	3420.6	3394.6	3387.8	3337.8	3251.1	3072.8	2982.3
17.5°	3125.8	3227.9	3346.4	3310.9	3204.9	3184.6	3252.0	3315.7	3294.5	3142.2	3057.5
20°	3153.8	3239.5	3275.2	3117.2	2932.2	2914.0	3043.0	3224.1	3316.6	3206.8	3128.7
22.5°	3192.4	3245.4	3172.1	2912.9	2713.6	2671.1	2813.7	3086.4	3323.4	3288.6	3210.6
25°	3245.4	3259.8	3058.4	2719.3	2519.0	2476.6	2609.5	2933.2	3311.8	3377.3	3310.9
27.5°	3308.9	3279.0	2949.5	2557.5	2363.9	2324.4	2457.3	2785.8	3279.0	3465.9	3418.7
30°	3391.7	3304.1	2841.7	2432.3	2253.2	2224.2	2352.4	2658.6	3238.6	3578.6	3552.6
32.5°	3475.6	3314.6	2741.5	2359.0	2228.0	2238.7	2343.7	2590.3	3194.2	3686.5	3699.0
35°	3566.1	3348.4	2692.4	2431.3	2437.1	2529.6	2573.0	2653.8	3187.5	3832.9	3882.1
37.5°	3689.4	3423.5	2751.1	2790.7	2991.1	3182.7	3147.1	2965.0	3265.5	4051.6	4143.0
40°	3866.6	3555.5	3007.4	3402.3	3813.6	4124.8	3989.0	3530.4	3504.5	4366.6	4503.3
42.5°	4124.8	3765.4	3462.0	4149.8	4847.2	5359.7	4995.6	4259.7	3922.5	4816.5	4990.8
45°	4506.2	4105.5	4012.1	4938.8	6121.7	6928.9	6171.7	5037.1	4508.2	5497.5	5634.2
47.5°	5035.1	4605.4	4527.4	5770.0	7670.7	8714.9	7476.0	5757.5	5174.8	6426.0	6457.9
50°	5737.3	5278.9	5015.8	6679.4	9368.9	10535.5	8779.4	6453.1	5938.6	7560.8	7524.2
52.5°	6664.0	6218.1	5585.1	7545.4	11115.4	12317.5	10088.5	7063.8	6886.6	8877.6	8802.5
55°	7927.9	7631.1	6363.5	8371.9	12860.9	14110.3	11346.5	7639.8	8138.8	10442.0	9987.4
57.5°	9496.1	9708.0	7485.7	9330.4	14430.1	15957.8	12610.4	8445.2	9764.9	12191.3	10675.2
60°	10507.5	12469.7	9634.8	10747.4	16213.0	18047.2	14342.4	9976.7	11473.7	12818.4	10544.2
62.5°	10262.8	13348.3	12208.7	12556.5	17852.6	19566.2	16039.7	11515.2	11795.4	11894.6	9534.7
65°	9512.4	12639.3	11683.7	12908.0	18267.8	19652.0	16493.4	11316.7	10005.6	9710.8	7663.9
67.5°	8479.8	11798.4	10436.2	11975.6	17517.4	18453.7	15648.6	10010.5	7732.3	7287.2	5560.1
70°	7365.2	10867.8	9617.5	10929.5	16086.9	16365.3	14212.3	8804.4	5687.2	4921.4	3568.0
72.5°	6307.6	9898.7	9056.8	9857.3	14178.6	13602.6	12342.5	7738.0	4141.2	3549.7	2536.4
75°	5225.9	8469.2	8258.2	8583.9	11669.2	10714.6	10255.1	6406.9	3250.2	2568.1	1750.3
77.5°	4032.3	6617.8	7103.2	6874.1	8213.9	7958.7	7949.1	4814.5	2374.5	1713.7	1097.2
80°	2759.8	4612.2	5549.5	4849.2	5330.8	5200.7	5986.8	3229.9	1722.3	1031.7	610.7
82.5°	1622.2	2808.0	3862.8	2347.6	2947.7	3025.7	3565.2	1571.1	1013.4	237.9	132.9
85°	657.9	1108.7	1510.4	919.0	1421.8	1199.2	1353.4	441.2	282.3	5.7	0.0
87.5°	165.6	354.4	248.6	103.1	164.7	151.2	119.4	53.9	11.6	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°	1936.2	1936.2	1936.2	1936.2	1936.2	1936.2	1936.2	1936.2	1936.2	1936.2	1936.2
2.5°	2150.0	2127.9	2073.0	2018.1	1973.7	1914.1	1874.5	1827.4	1782.1	1741.6	1733.9
5°	2377.4	2304.2	2204.0	2112.5	2019.0	1928.5	1839.0	1744.6	1657.8	1604.8	1571.1
7.5°	2562.3	2433.2	2300.3	2183.8	2071.1	1965.1	1846.6	1731.9	1596.1	1523.9	1458.4
10°	2700.1	2530.5	2356.2	2222.3	2108.6	2005.5	1905.4	1789.8	1626.1	1535.4	1437.3
12.5°	2790.7	2589.4	2385.1	2231.9	2104.7	2024.8	1980.5	1935.2	1772.4	1666.4	1523.9
15°	2853.3	2630.8	2405.4	2209.8	2053.7	1995.0	2039.2	2091.3	1987.3	1864.9	1679.1
17.5°	2921.7	2684.7	2414.0	2150.0	1954.5	1929.5	2044.1	2164.5	2159.7	2038.3	1856.3
20°	2993.9	2731.8	2408.2	2053.7	1834.1	1856.3	2002.6	2142.4	2201.1	2135.6	1973.7
22.5°	3068.0	2777.1	2386.1	1928.5	1721.4	1790.8	1937.1	2059.5	2128.8	2108.6	1985.3
25°	3161.5	2840.7	2353.3	1793.6	1627.9	1724.3	1861.1	1960.3	2008.5	2007.5	1922.7
27.5°	3273.2	2925.5	2336.0	1684.8	1561.5	1649.1	1770.5	1859.1	1892.9	1892.9	1825.4
30°	3403.3	3025.7	2316.7	1613.6	1522.9	1571.1	1665.5	1752.2	1786.0	1786.0	1729.1
32.5°	3547.8	3122.0	2270.5	1570.2	1494.0	1495.1	1554.7	1633.7	1674.2	1680.0	1639.5
35°	3721.2	3225.1	2169.3	1535.4	1460.3	1420.9	1449.8	1515.3	1563.4	1575.9	1550.9
37.5°	3948.5	3351.2	2024.8	1484.4	1408.4	1342.9	1349.5	1399.6	1452.6	1471.9	1455.5
40°	4253.9	3499.7	1874.5	1411.2	1335.2	1257.1	1254.2	1290.8	1342.9	1364.0	1355.4
42.5°	4657.5	3677.8	1731.0	1340.9	1246.5	1166.6	1161.7	1190.6	1235.9	1258.1	1254.2
45°	5173.8	3896.5	1607.7	1286.0	1159.8	1080.8	1078.9	1103.0	1142.5	1165.5	1160.7
47.5°	5891.5	4115.2	1523.9	1257.1	1091.4	1010.4	1014.3	1035.6	1071.1	1087.5	1080.8
50°	6826.8	4181.6	1481.5	1257.1	1054.8	947.9	967.2	984.5	1011.5	1021.1	1012.4
52.5°	7724.6	3962.0	1443.0	1264.7	1059.6	894.9	936.3	948.8	971.9	975.8	963.3
55°	8164.8	3406.2	1390.0	1266.7	1089.5	849.6	911.2	934.4	943.1	942.1	920.9
57.5°	8013.6	2754.1	1300.4	1259.0	1109.7	820.7	880.5	924.8	930.5	921.9	882.3
60°	7482.8	2027.8	1232.0	1202.2	1102.0	812.0	833.2	903.5	912.2	900.7	836.1
62.5°	6592.7	1407.3	1179.1	1077.0	1068.3	809.1	759.1	857.3	878.5	862.1	767.7
65°	5190.2	994.1	1015.3	944.0	995.1	793.8	682.0	801.4	830.4	805.3	672.4
67.5°	3512.2	717.6	822.7	855.4	876.6	759.1	626.2	737.9	776.4	743.6	561.6
70°	1896.7	503.8	543.2	720.6	744.7	699.4	576.0	673.3	717.6	682.0	457.6
72.5°	1120.3	362.2	380.5	578.9	620.3	615.5	520.2	598.2	652.1	609.8	371.9
75°	617.5	244.7	271.6	419.9	503.8	474.9	447.0	506.7	561.6	520.2	287.1
77.5°	276.4	146.4	188.8	275.5	396.0	325.5	345.8	394.9	446.0	402.6	191.7
80°	106.9	81.9	125.3	150.3	288.0	180.1	222.5	290.9	327.5	292.8	116.5
82.5°	13.5	36.6	53.9	58.7	167.6	95.3	129.0	183.1	180.1	156.0	58.7
85°	0.0	6.8	7.7	3.9	72.3	34.6	42.4	59.8	55.9	42.4	4.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	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°	1936.2	1936.2	1936.2	1936.2	1936.2	1936.2	1936.2	1936.2	1936.2	1936.2	1936.2
2.5°	1686.7	1652.0	1634.7	1620.2	1633.7	1641.4	1641.4	1674.2	1693.5	1701.2	1755.1
5°	1486.4	1421.8	1378.4	1352.5	1361.1	1370.7	1381.4	1422.8	1450.7	1469.0	1552.8
7.5°	1328.4	1230.1	1169.4	1137.6	1142.5	1149.2	1157.8	1198.3	1226.3	1250.3	1343.8
10°	1250.3	1111.6	1031.7	993.1	986.4	982.6	979.7	1003.8	1024.9	1044.2	1136.7
12.5°	1254.2	1060.6	963.3	916.0	895.8	872.8	854.4	858.3	871.8	895.8	954.6
15°	1303.3	1044.2	927.6	868.9	835.2	808.2	786.1	781.3	786.1	789.9	826.5
17.5°	1369.8	1042.3	896.8	823.6	788.9	766.8	746.5	739.8	740.8	745.6	755.2
20°	1422.8	1036.5	862.1	780.2	749.5	730.2	709.9	703.2	705.1	706.1	716.7
22.5°	1450.7	1027.9	823.6	736.9	710.9	691.7	673.3	672.4	672.4	678.1	685.8
25°	1450.7	1009.5	788.9	695.5	672.4	655.1	632.8	636.7	638.7	646.4	657.9
27.5°	1416.0	974.9	761.0	659.9	635.8	618.4	598.2	603.0	605.9	614.6	629.0
30°	1371.8	933.5	729.2	626.2	598.2	585.7	568.4	570.3	574.1	583.7	600.1
32.5°	1324.5	884.3	703.2	592.4	564.5	554.8	535.6	538.4	542.3	552.9	571.2
35°	1272.5	826.5	672.4	561.6	533.6	525.9	503.8	505.7	511.5	523.1	541.4
37.5°	1217.6	779.3	641.5	531.8	502.9	495.2	472.0	474.0	480.7	494.2	511.5
40°	1163.7	733.1	608.7	500.0	471.1	464.3	439.2	441.2	448.8	463.3	481.6
42.5°	1104.8	697.4	566.4	467.2	436.3	429.6	406.5	409.4	418.1	432.6	450.8
45°	1034.5	674.3	519.2	436.3	401.7	394.9	373.7	379.6	389.2	403.6	422.9
47.5°	962.4	664.7	479.7	403.6	366.0	360.3	343.0	352.6	363.2	374.7	396.0
50°	893.0	652.1	439.2	372.8	335.2	329.4	317.9	330.4	341.0	351.6	371.9
52.5°	814.0	625.1	402.6	345.8	309.2	307.3	301.6	313.0	322.7	332.3	349.6
55°	732.1	581.8	370.8	321.7	287.1	288.9	286.1	295.7	303.4	312.1	327.5
57.5°	660.8	527.0	345.8	295.7	267.8	273.6	269.7	274.5	279.3	290.0	302.5
60°	588.6	461.5	317.9	264.9	248.6	255.2	244.7	243.7	245.6	248.6	271.6
62.5°	491.3	393.0	283.2	237.9	227.3	230.2	210.0	194.5	194.5	197.5	232.2
65°	394.9	329.4	244.7	207.2	198.4	196.5	167.6	146.4	144.5	153.1	183.1
67.5°	324.6	273.6	206.1	172.4	166.7	168.6	147.4	126.2	124.2	133.9	156.0
70°	268.8	220.6	164.7	132.9	138.7	147.4	126.2	106.0	103.1	111.7	132.9
72.5°	213.8	172.4	126.2	98.3	114.6	125.3	103.1	83.8	81.9	89.6	109.8
75°	157.0	123.3	85.7	71.2	88.7	98.3	75.1	59.8	56.8	63.6	83.8
77.5°	97.3	69.4	53.9	42.4	60.7	65.5	39.5	34.6	33.7	38.5	53.0
80°	45.3	29.8	26.0	14.5	22.1	26.0	16.4	18.3	19.3	23.2	32.8
82.5°	12.5	4.8	0.9	0.0	0.0	7.7	3.9	7.7	9.6	14.5	21.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	4.8	8.7	15.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9	7.7
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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CATALOG NUMBER: NAV-SB3B-740-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1936.2	1936.2	1936.2	1936.2	1936.2	1936.2	1936.2	1936.2
2.5°	1795.6	1834.1	1895.7	1959.3	2021.9	2085.5	2147.2	2169.3
5°	1628.9	1717.5	1839.9	1970.9	2105.8	2242.5	2367.8	2424.6
7.5°	1443.0	1570.2	1754.2	1959.3	2174.1	2389.0	2586.4	2677.9
10°	1244.6	1405.5	1615.4	1892.9	2201.1	2497.8	2769.4	2887.9
12.5°	1055.8	1224.4	1456.5	1788.8	2179.9	2560.4	2887.0	3026.6
15°	897.8	1047.1	1297.5	1665.5	2111.5	2564.2	2942.9	3096.0
17.5°	779.3	876.6	1135.7	1528.7	2021.9	2528.7	2962.1	3125.8
20°	720.6	747.5	925.7	1353.4	1938.2	2495.0	2981.4	3153.8
22.5°	685.8	692.6	757.2	1127.1	1837.9	2484.3	3015.0	3192.4
25°	657.9	659.9	677.2	893.0	1684.8	2477.5	3067.1	3245.4
27.5°	630.0	630.0	639.6	719.6	1476.7	2448.6	3134.6	3308.9
30°	602.1	602.1	608.7	636.7	1233.0	2391.8	3215.4	3391.7
32.5°	573.2	573.2	578.9	599.2	984.5	2320.6	3289.6	3475.6
35°	544.3	542.3	550.0	571.2	783.2	2230.0	3363.8	3566.1
37.5°	513.4	512.5	520.2	544.3	676.2	2125.0	3419.7	3689.4
40°	480.7	480.7	489.3	515.4	645.4	1993.0	3508.3	3866.6
42.5°	450.8	448.8	458.5	490.4	622.3	1866.8	3667.2	4124.8
45°	421.9	418.1	426.7	466.3	581.8	1822.6	3963.9	4506.2
47.5°	394.9	385.3	393.0	437.4	545.2	1988.2	4449.4	5035.1
50°	372.8	354.4	361.2	408.5	517.3	2347.6	5079.4	5737.3
52.5°	349.6	325.5	329.4	372.8	492.2	2689.5	5762.3	6664.0
55°	325.5	298.6	300.5	337.1	456.6	2740.5	6429.0	7927.9
57.5°	298.6	273.6	273.6	304.4	430.6	2375.4	6941.4	9496.1
60°	268.8	252.4	247.5	278.4	453.7	1676.1	7001.2	10507.5
62.5°	236.0	227.3	220.6	253.4	471.1	993.1	6520.4	10262.8
65°	198.4	196.5	191.7	278.4	396.9	586.6	5597.6	9512.4
67.5°	166.7	163.8	163.8	291.9	301.6	368.9	4373.4	8479.8
70°	143.5	132.9	132.9	220.6	183.1	255.2	3053.6	7365.2
72.5°	120.4	108.9	101.2	176.3	136.8	186.9	1908.2	6307.6
75°	96.4	87.6	78.0	116.5	102.1	141.6	1108.7	5225.9
77.5°	69.4	65.5	54.9	85.7	74.2	102.1	659.9	4032.3
80°	35.7	36.6	34.6	49.1	50.1	69.4	375.7	2759.8
82.5°	21.2	16.4	18.3	24.1	28.9	39.5	141.6	1622.2
85°	13.5	8.7	8.7	11.6	14.5	15.4	43.4	657.9
87.5°	6.8	2.9	3.9	5.7	4.8	3.9	1.9	165.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)