

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: P970919

Luminaire Tested: **NAV-SB6C-740-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970919
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-SB6C-740-U-SLR-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37585.7 lumens
Efficiency: N/A
Efficacy: 124.9 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): 300.9
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

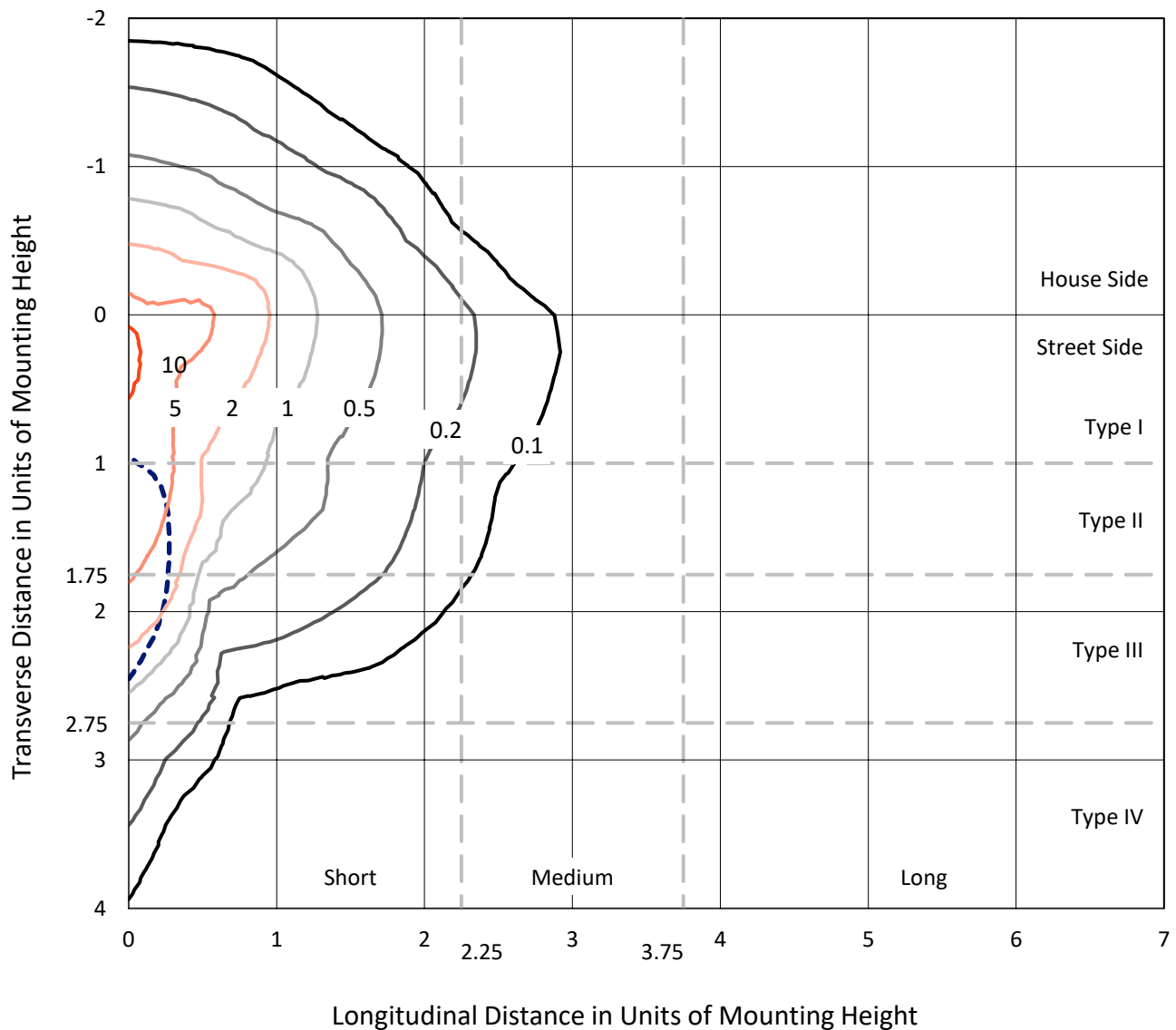


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

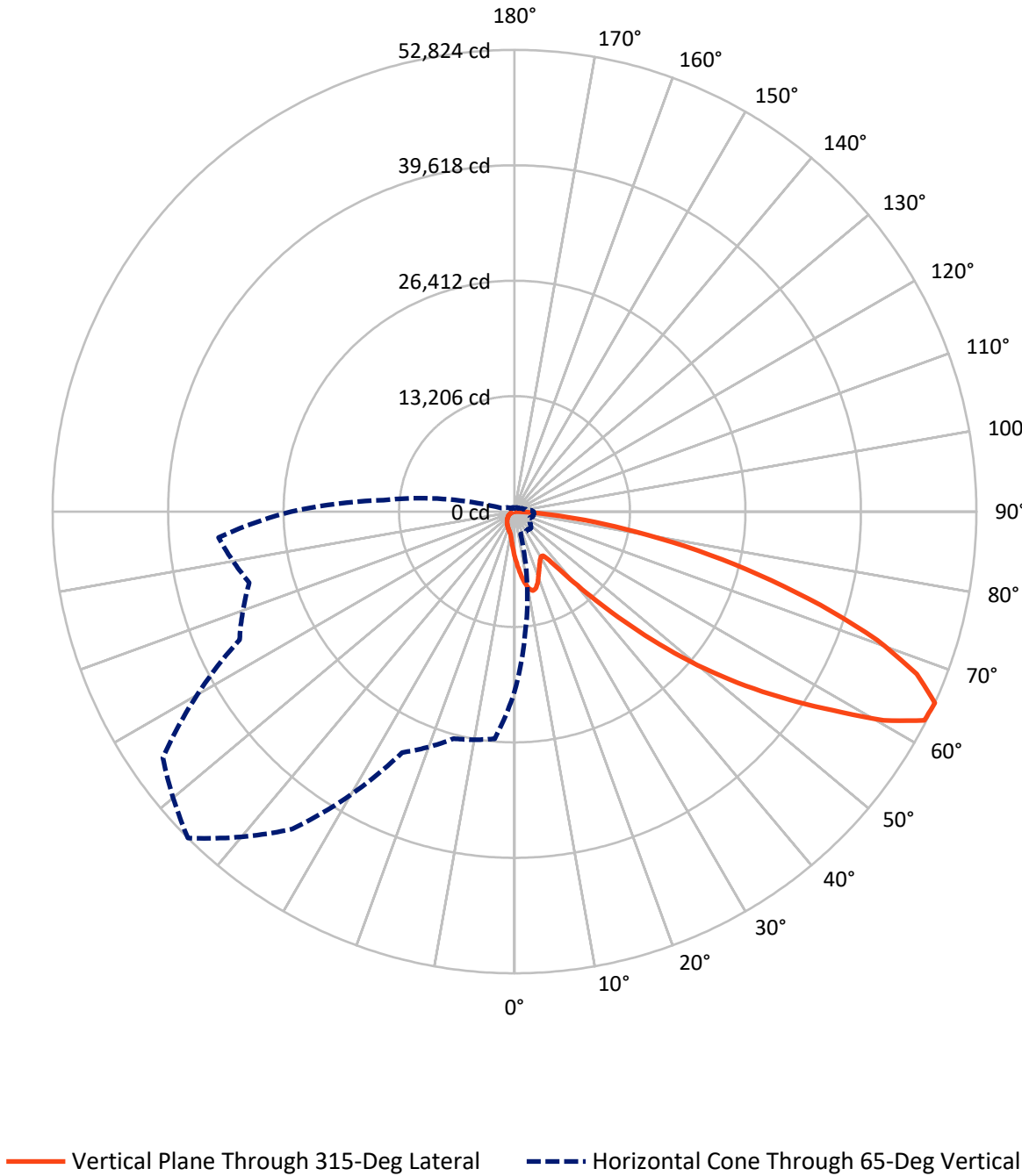


Based on 25 foot mounting height. Maximum calculated value = 11.6 fc

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	5263.6	0.0	5263.6
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	32322.1	0.0	32322.1
	% Fixture	86.0	0.0	86.0
Total	Lumens	37585.7	0.0	37585.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	512.4	1.4
10°-20°	1536.0	4.1
20°-30°	2262.8	6.0
30°-40°	2907.1	7.7
40°-50°	4701.7	12.5
50°-60°	8244.9	21.9
60°-70°	10316.6	27.4
70°-80°	6028.6	16.0
80°-90°	1075.6	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°	37585.7	100.0
0°-180°	37585.7	100.0

Coefficient of Utilization



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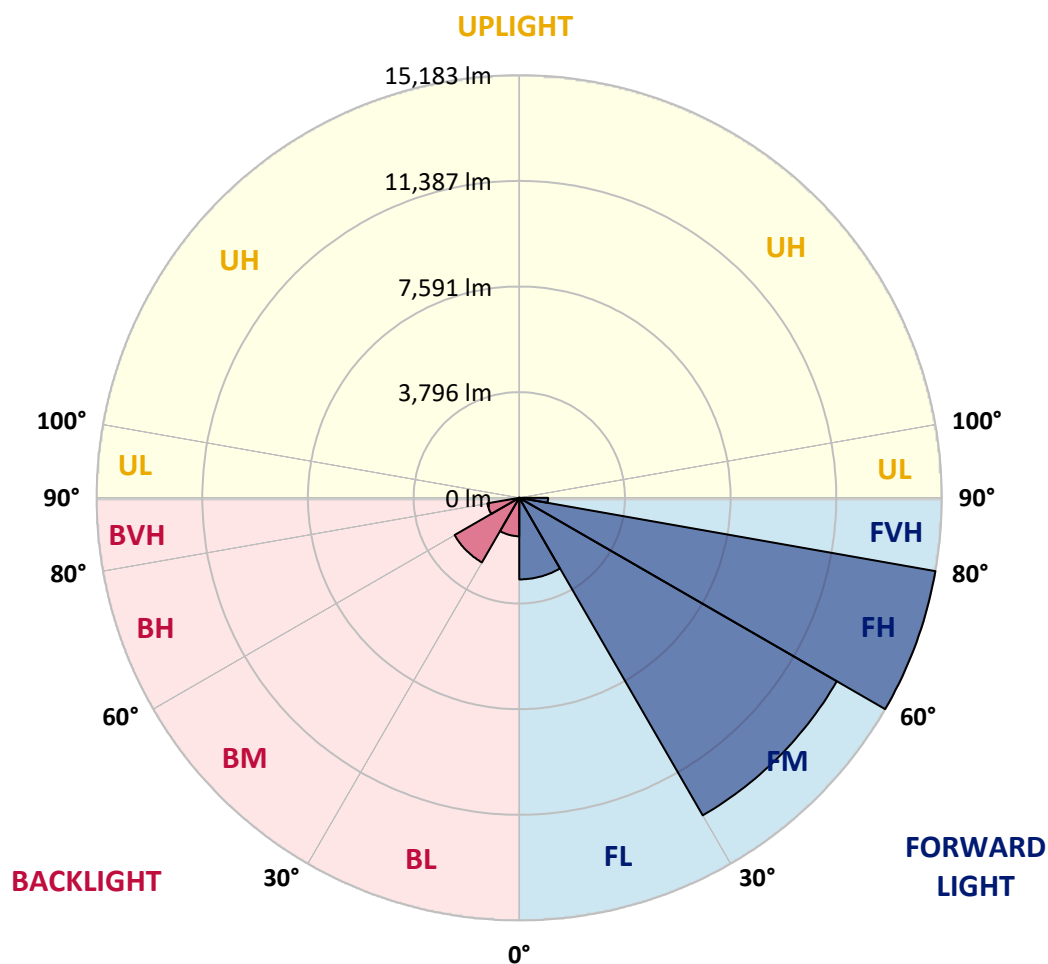
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2931.6	7.8			
FM	(30°-60°)	13173.4	35.0			
FH	(60°-80°)	15182.9	40.4			G5
FVH	(80°-90°)	1034.3	2.8			G5
BL	(0°-30°)	1379.7	3.7	B3/2500		
BM	(30°-60°)	2680.4	7.1	B3/5000		
BH	(60°-80°)	1162.2	3.1	B3/2500		G3/2500
BVH	(80°-90°)	41.3	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°	5204.4	5204.4	5204.4	5204.4	5204.4	5204.4	5204.4	5204.4	5204.4	5204.4	5204.4
2.5°	5880.2	5779.3	5719.7	5572.1	5424.5	5305.4	5144.9	5038.7	4911.8	4790.1	4681.4
5°	6553.4	6390.3	6193.6	5924.2	5678.3	5427.1	5183.7	4942.9	4689.2	4456.1	4313.7
7.5°	7123.0	6887.5	6540.5	6183.2	5869.9	5566.9	5282.1	4963.7	4655.4	4290.4	4096.2
10°	7558.0	7257.7	6802.0	6333.4	5973.4	5667.9	5390.9	5121.5	4810.8	4370.7	4127.3
12.5°	7822.2	7501.1	6960.0	6411.1	5999.3	5657.6	5442.6	5323.5	5201.9	4764.2	4479.5
15°	8016.3	7669.4	7071.3	6465.4	5939.8	5520.3	5362.4	5481.5	5621.3	5341.7	5012.9
17.5°	8218.3	7853.2	7216.3	6488.7	5779.3	5253.6	5186.3	5494.4	5818.1	5805.1	5478.9
20°	8409.9	8047.5	7343.2	6473.2	5520.3	4929.9	4989.5	5383.1	5758.6	5916.5	5740.4
22.5°	8630.0	8246.8	7464.9	6413.6	5183.7	4627.1	4813.4	5207.0	5535.8	5722.3	5667.9
25°	8899.3	8498.0	7635.7	6325.6	4821.2	4375.8	4634.7	5002.4	5269.1	5398.6	5396.0
27.5°	9189.3	8798.3	7863.6	6278.9	4528.7	4197.2	4432.8	4759.1	4997.3	5087.9	5087.9
30°	9549.2	9147.9	8132.9	6227.2	4337.0	4093.6	4223.1	4476.8	4709.9	4800.5	4800.5
32.5°	9942.8	9536.3	8391.8	6102.8	4220.5	4016.0	4018.5	4179.0	4391.4	4500.2	4515.6
35°	10434.7	10002.4	8668.8	5831.0	4127.3	3925.3	3819.2	3896.8	4072.9	4202.4	4236.0
37.5°	11136.4	10613.4	9008.0	5442.6	3990.0	3785.5	3609.4	3627.6	3762.2	3904.6	3956.4
40°	12104.8	11434.2	9406.8	5038.7	3793.3	3588.7	3379.0	3371.2	3469.6	3609.4	3666.4
42.5°	13415.0	12519.0	9885.8	4652.9	3604.2	3350.5	3135.6	3122.7	3200.4	3322.0	3381.6
45°	15144.6	13906.9	10473.6	4321.5	3456.7	3117.4	2905.2	2899.9	2964.7	3070.9	3133.0
47.5°	17358.4	15835.9	11061.3	4096.2	3379.0	2933.7	2716.1	2726.5	2783.5	2879.2	2923.3
50°	20224.8	18350.1	11239.9	3982.3	3379.0	2835.3	2547.8	2599.6	2646.2	2718.7	2744.6
52.5°	23660.7	20763.3	10649.6	3878.7	3399.7	2848.2	2405.5	2516.8	2550.4	2612.5	2623.0
55°	26845.5	21946.6	9155.6	3736.3	3404.8	2928.4	2283.7	2449.4	2511.6	2534.9	2532.3
57.5°	28694.3	21540.1	7402.8	3495.5	3384.1	2982.9	2206.0	2366.6	2485.7	2501.2	2477.9
60°	28342.1	20113.4	5450.4	3311.7	3231.4	2962.1	2182.7	2239.7	2428.7	2452.0	2420.9
62.5°	25628.5	17720.9	3782.9	3169.3	2894.8	2871.5	2174.9	2040.4	2304.4	2361.4	2317.4
65°	20600.1	13951.0	2672.1	2729.1	2537.5	2674.7	2133.5	1833.2	2154.2	2231.9	2164.6
67.5°	14945.2	9440.5	1929.0	2211.2	2299.3	2356.3	2040.4	1683.0	1983.4	2086.9	1999.0
70°	9590.6	5098.2	1354.2	1460.3	1936.7	2001.5	1879.8	1548.4	1809.9	1929.0	1833.2
72.5°	6817.6	3011.3	973.5	1022.7	1556.2	1667.5	1654.6	1398.2	1607.9	1753.0	1639.0
75°	4704.6	1659.7	657.6	730.2	1128.9	1354.2	1276.5	1201.4	1361.9	1509.5	1398.2
77.5°	2949.1	743.1	393.6	507.5	740.6	1064.2	875.1	929.6	1061.6	1198.8	1082.3
80°	1641.6	287.4	220.1	336.6	404.0	774.2	484.2	598.1	782.0	880.4	787.1
82.5°	357.3	36.3	98.4	145.0	158.0	450.5	256.4	347.0	492.0	484.2	419.4
85°	0.0	0.0	18.1	20.7	10.4	194.2	93.2	113.9	160.5	150.2	113.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2	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°	5204.4	5204.4	5204.4	5204.4	5204.4	5204.4	5204.4	5204.4	5204.4	5204.4	5204.4
2.5°	4660.7	4533.8	4440.6	4394.0	4355.1	4391.4	4412.1	4412.1	4500.2	4551.9	4572.6
5°	4223.1	3995.2	3821.7	3705.3	3635.4	3658.6	3684.6	3713.0	3824.4	3899.4	3948.6
7.5°	3920.1	3570.6	3306.4	3143.4	3057.9	3070.9	3089.0	3112.3	3221.1	3296.1	3360.9
10°	3863.2	3360.9	2988.0	2773.1	2669.5	2651.4	2641.0	2633.3	2698.0	2755.0	2806.8
12.5°	4096.2	3371.2	2850.7	2589.3	2462.4	2408.0	2345.9	2296.7	2307.1	2343.3	2408.0
15°	4513.1	3503.2	2806.8	2493.4	2335.6	2244.9	2172.4	2112.8	2099.9	2112.8	2123.2
17.5°	4989.5	3681.9	2801.6	2410.6	2213.8	2120.6	2061.1	2006.6	1988.6	1991.2	2004.1
20°	5305.4	3824.4	2786.1	2317.4	2097.3	2014.4	1962.7	1908.2	1890.2	1895.3	1897.9
22.5°	5336.5	3899.4	2762.8	2213.8	1980.8	1910.9	1859.0	1809.9	1807.3	1807.3	1822.9
25°	5168.2	3899.4	2713.6	2120.6	1869.5	1807.3	1760.7	1701.2	1711.5	1716.7	1737.4
27.5°	4906.7	3806.2	2620.3	2045.5	1773.7	1708.9	1662.3	1607.9	1620.8	1628.6	1652.0
30°	4647.8	3687.1	2509.0	1960.1	1683.0	1607.9	1574.3	1527.7	1532.9	1543.2	1569.1
32.5°	4406.9	3560.2	2377.0	1890.2	1592.4	1517.3	1491.4	1439.6	1447.4	1457.8	1486.2
35°	4168.7	3420.4	2221.6	1807.3	1509.5	1434.5	1413.8	1354.2	1359.4	1374.9	1406.0
37.5°	3912.4	3272.8	2094.7	1724.5	1429.3	1351.6	1330.9	1268.7	1273.9	1292.0	1328.3
40°	3643.1	3127.8	1970.5	1636.4	1343.9	1266.2	1248.0	1180.7	1185.9	1206.6	1245.5
42.5°	3371.2	2969.8	1874.6	1522.5	1255.8	1172.9	1154.8	1092.6	1100.4	1123.7	1162.6
45°	3120.1	2780.8	1812.5	1395.6	1172.9	1079.7	1061.6	1004.6	1020.2	1046.0	1084.9
47.5°	2905.2	2586.7	1786.6	1289.4	1084.9	983.9	968.4	921.8	947.7	976.1	1007.3
50°	2721.3	2400.2	1753.0	1180.7	1002.0	901.1	885.5	854.4	888.2	916.6	945.0
52.5°	2589.3	2188.0	1680.4	1082.3	929.6	831.2	825.9	810.5	841.5	867.4	893.3
55°	2475.4	1967.8	1563.9	996.9	864.8	771.6	776.7	769.1	794.9	815.6	839.0
57.5°	2371.7	1776.2	1416.3	929.6	794.9	719.9	735.3	725.0	737.9	750.9	779.4
60°	2247.5	1582.1	1240.2	854.4	712.1	668.0	686.1	657.6	655.1	660.3	668.0
62.5°	2063.6	1320.5	1056.5	761.3	639.5	611.1	618.8	564.5	523.1	523.1	530.8
65°	1807.3	1061.6	885.5	657.6	556.7	533.4	528.2	450.5	393.6	388.4	411.7
67.5°	1509.5	872.6	735.3	554.1	463.5	447.9	453.2	396.2	339.2	334.0	359.9
70°	1229.9	722.4	593.0	442.8	357.3	372.9	396.2	339.2	284.8	277.1	300.3
72.5°	999.5	574.8	463.5	339.2	264.1	308.1	336.6	277.1	225.3	220.1	240.8
75°	771.6	422.1	331.4	230.4	191.6	238.2	264.1	201.9	160.5	152.7	170.9
77.5°	515.3	261.5	186.4	145.0	113.9	163.1	176.1	106.2	93.2	90.6	103.5
80°	313.3	121.7	80.3	69.9	38.8	59.6	69.9	44.0	49.2	51.8	62.1
82.5°	158.0	33.6	12.9	2.6	0.0	0.0	20.7	10.4	20.7	25.9	38.8
85°	12.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2	12.9	23.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.4
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°	5204.4	5204.4	5204.4	5204.4	5204.4	5204.4	5204.4	5204.4	5204.4	5204.4	5204.4
2.5°	4717.7	4826.4	4929.9	5095.7	5266.6	5434.9	5605.7	5771.5	5831.0	5875.0	5973.4
5°	4173.9	4378.5	4616.7	4945.5	5297.6	5660.2	6027.8	6364.4	6517.2	6620.8	6853.8
7.5°	3612.0	3878.7	4220.5	4715.0	5266.6	5843.9	6421.4	6952.2	7198.2	7397.5	7752.3
10°	3055.3	3345.3	3777.7	4342.2	5087.9	5916.5	6714.0	7444.2	7762.6	8013.8	8495.4
12.5°	2566.0	2837.8	3291.0	3915.0	4808.3	5859.5	6882.3	7760.1	8135.4	8417.7	8945.9
15°	2221.6	2413.2	2814.5	3487.8	4476.8	5675.6	6892.6	7910.2	8321.9	8617.1	9075.3
17.5°	2030.0	2094.7	2356.3	3052.8	4109.1	5434.9	6796.8	7962.0	8402.1	8676.6	8995.1
20°	1926.4	1936.7	2009.3	2488.3	3637.9	5209.6	6706.2	8013.8	8477.3	8707.7	8803.5
22.5°	1843.6	1843.6	1861.7	2035.1	3029.4	4940.3	6677.7	8104.4	8580.8	8723.3	8526.5
25°	1768.4	1768.4	1773.7	1820.3	2400.2	4528.7	6659.6	8244.2	8723.3	8762.1	8220.9
27.5°	1690.8	1693.4	1693.4	1719.2	1934.2	3969.3	6581.9	8425.5	8894.1	8813.9	7928.4
30°	1613.1	1618.3	1618.3	1636.4	1711.5	3314.2	6429.1	8643.0	9116.8	8881.2	7638.3
32.5°	1535.4	1540.6	1540.6	1556.2	1610.5	2646.2	6237.5	8842.4	9342.1	8909.6	7369.0
35°	1455.2	1463.0	1457.8	1478.5	1535.4	2105.0	5994.1	9041.7	9585.5	9000.3	7237.0
37.5°	1374.9	1380.1	1377.5	1398.2	1463.0	1817.6	5711.9	9191.9	9916.9	9202.2	7395.0
40°	1294.7	1292.0	1292.0	1315.4	1385.3	1734.8	5357.2	9430.1	10393.3	9557.0	8083.7
42.5°	1211.8	1211.8	1206.6	1232.5	1317.9	1672.7	5018.0	9857.3	11087.2	10121.5	9305.8
45°	1136.7	1134.1	1123.7	1147.1	1253.2	1563.9	4898.9	10654.8	12112.5	11035.5	10784.3
47.5°	1064.2	1061.6	1035.7	1056.5	1175.6	1465.5	5344.2	11959.8	13534.1	12379.2	12169.5
50°	999.5	1002.0	952.8	971.0	1097.9	1390.4	6310.0	13653.2	15421.6	14189.2	13482.3
52.5°	939.9	939.9	875.1	885.5	1002.0	1323.1	7229.2	15489.0	17912.5	16713.6	15012.6
55°	880.4	875.1	802.7	807.8	906.2	1227.3	7366.5	17280.8	21309.6	20512.2	17104.7
57.5°	813.0	802.7	735.3	735.3	818.3	1157.4	6385.1	18658.3	25525.0	26094.6	20121.2
60°	730.2	722.4	678.3	665.4	748.2	1219.5	4505.3	18818.8	28243.7	33518.0	25897.9
62.5°	624.0	634.4	611.1	593.0	681.0	1266.2	2669.5	17526.7	27586.0	35879.4	32816.3
65°	492.0	533.4	528.2	515.3	748.2	1066.8	1576.9	15046.2	25568.9	33973.7	31405.2
67.5°	419.4	447.9	440.1	440.1	784.5	810.5	991.7	11755.2	22793.3	31713.3	28052.1
70°	357.3	385.8	357.3	357.3	593.0	492.0	686.1	8208.0	19797.5	29212.1	25851.2
72.5°	295.2	323.7	292.6	271.8	473.9	367.7	502.4	5129.3	16954.5	26607.3	24344.3
75°	225.3	258.9	235.6	209.7	313.3	274.5	380.6	2980.3	14046.8	22764.8	22197.7
77.5°	142.4	186.4	176.1	147.6	230.4	199.4	274.5	1773.7	10838.7	17788.3	19093.2
80°	88.0	95.8	98.4	93.2	132.0	134.7	186.4	1009.8	7418.2	12397.4	14916.7
82.5°	57.0	57.0	44.0	49.2	64.8	77.7	106.2	380.6	4360.3	7547.7	10382.9
85°	41.4	36.3	23.3	23.3	31.1	38.8	41.4	116.5	1768.4	2980.3	4059.9
87.5°	20.7	18.1	7.8	10.4	15.6	12.9	10.4	5.2	445.4	952.8	668.0
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: P970919

CATALOG NUMBER: NAV-SB6C-740-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	5204.4	5204.4	5204.4	5204.4	5204.4	5204.4	5204.4	5204.4
2.5°	6025.3	6105.5	6110.6	6110.6	6040.7	6038.2	5895.8	5880.2
5°	7094.5	7146.4	7159.3	7133.4	6993.6	6890.0	6613.0	6553.4
7.5°	8073.3	8176.9	8176.9	8114.7	7886.9	7674.6	7273.2	7123.0
10°	8855.3	8974.4	8948.5	8821.7	8534.3	8241.6	7754.8	7558.0
12.5°	9235.9	9357.6	9290.3	9145.3	8865.6	8557.5	8044.8	7822.2
15°	9228.2	9194.5	9124.6	9106.4	8971.8	8738.7	8259.8	8016.3
17.5°	8899.3	8614.5	8560.1	8741.4	8912.3	8855.3	8446.2	8218.3
20°	8378.9	7881.7	7832.5	8179.5	8666.3	8914.8	8619.6	8409.9
22.5°	7830.0	7294.0	7180.0	7563.3	8296.0	8933.0	8839.7	8630.0
25°	7309.5	6770.9	6657.0	7014.3	7884.3	8901.9	9077.9	8899.3
27.5°	6874.5	6354.1	6247.9	6605.2	7488.1	8813.9	9316.1	9189.3
30°	6537.9	6056.3	5978.6	6323.0	7146.4	8705.1	9619.1	9549.2
32.5°	6341.1	5989.0	6017.5	6299.6	6962.5	8586.0	9909.1	9942.8
35°	6535.3	6550.9	6799.4	6915.9	7133.4	8567.9	10302.7	10434.7
37.5°	7501.1	8039.7	8555.0	8459.1	7969.8	8777.6	10890.4	11136.4
40°	9145.3	10250.9	11087.2	10722.1	9489.7	9419.8	11737.2	12104.8
42.5°	11154.6	13029.2	14406.7	13427.9	11449.8	10543.5	12946.4	13415.0
45°	13275.2	16454.7	18624.6	16589.4	13539.2	12117.8	14776.9	15144.6
47.5°	15509.7	20618.3	23425.0	20095.2	15476.1	13909.6	17273.0	17358.4
50°	17954.0	25183.2	28318.8	23598.6	17345.5	15962.8	20323.1	20224.8
52.5°	20281.7	29877.5	33108.9	27117.4	18987.1	18510.7	23862.6	23660.7
55°	22503.3	34569.3	37927.6	30499.0	20535.5	21876.7	28067.6	26845.5
57.5°	25079.6	38787.1	42893.8	33896.0	22700.1	26247.4	32769.8	28694.3
60°	28888.4	43579.9	48509.9	38551.6	26817.0	30840.7	34455.4	28342.1
62.5°	33751.1	47986.8	52593.2	43113.9	30952.0	31705.5	31972.2	25628.5
65°	34696.1	49102.8	52823.6	44333.4	30418.7	26894.7	26102.3	20600.1
67.5°	32189.7	47085.7	49602.5	42062.6	26907.6	20784.0	19587.8	14945.2
70°	29377.8	43240.8	43989.0	38202.0	23665.9	15287.1	13228.5	9590.6
72.5°	26495.9	38111.3	36563.0	33176.3	20799.5	11131.3	9541.4	6817.6
75°	23073.0	31366.3	28800.3	27565.3	17221.2	8736.2	6903.0	4704.6
77.5°	18477.0	22078.6	21392.5	21366.6	12941.1	6382.6	4606.3	2949.1
80°	13034.3	14329.0	13979.5	16092.3	8681.9	4629.6	2773.1	1641.6
82.5°	6310.0	7923.1	8132.9	9582.8	4223.1	2723.9	639.5	357.3
85°	2470.1	3821.7	3223.6	3637.9	1185.9	758.7	15.6	0.0
87.5°	277.1	442.8	406.5	321.0	145.0	31.1	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)