

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: P969834

Luminaire Tested: **NAV-SB6A-735-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969834
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-SB6A-735-U-SLR-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 350mA 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: 21279 lumens
Efficiency: N/A
Efficacy: 124.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 170.9
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



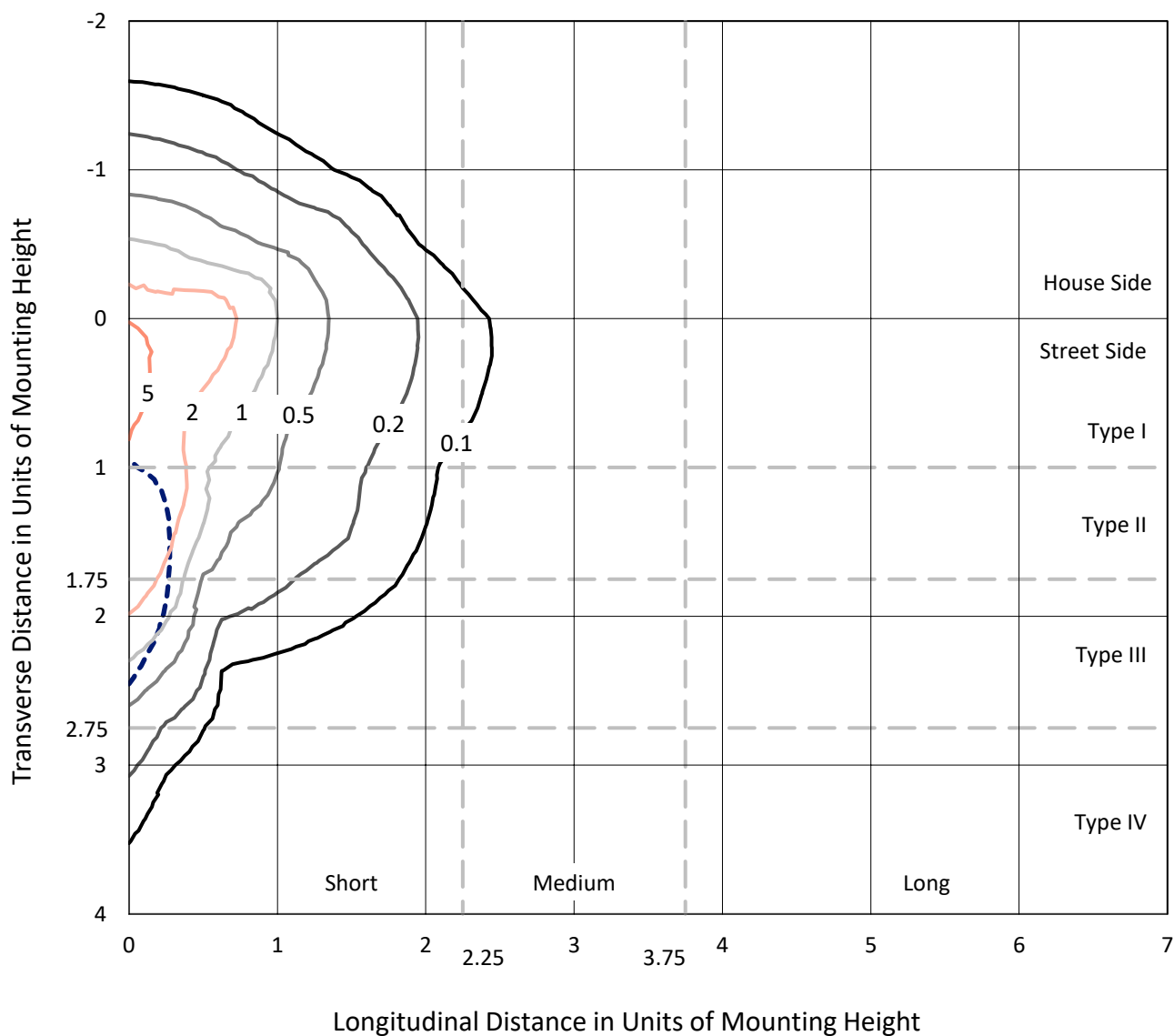
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

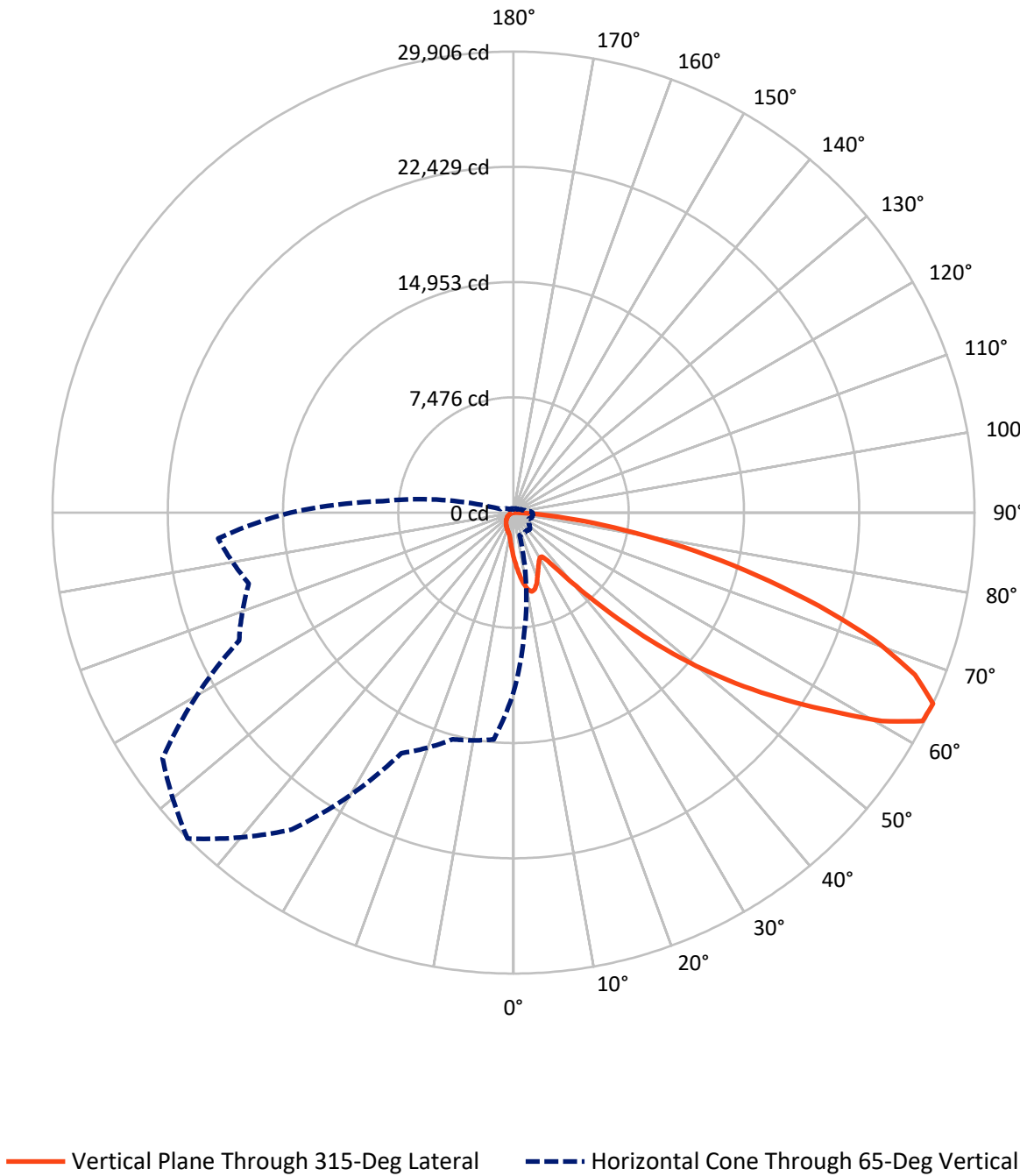


Based on 25 foot mounting height. Maximum calculated value = 6.6 fc

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	2980.0	0.0	2980.0
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	18299.0	0.0	18299.0
	% Fixture	86.0	0.0	86.0
Total	Lumens	21279.0	0.0	21279.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	290.1	1.4
10°-20°	869.6	4.1
20°-30°	1281.1	6.0
30°-40°	1645.9	7.7
40°-50°	2661.9	12.5
50°-60°	4667.8	21.9
60°-70°	5840.7	27.4
70°-80°	3413.0	16.0
80°-90°	608.9	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°	21279.0	100.0
0°-180°	21279.0	100.0

Coefficient of Utilization



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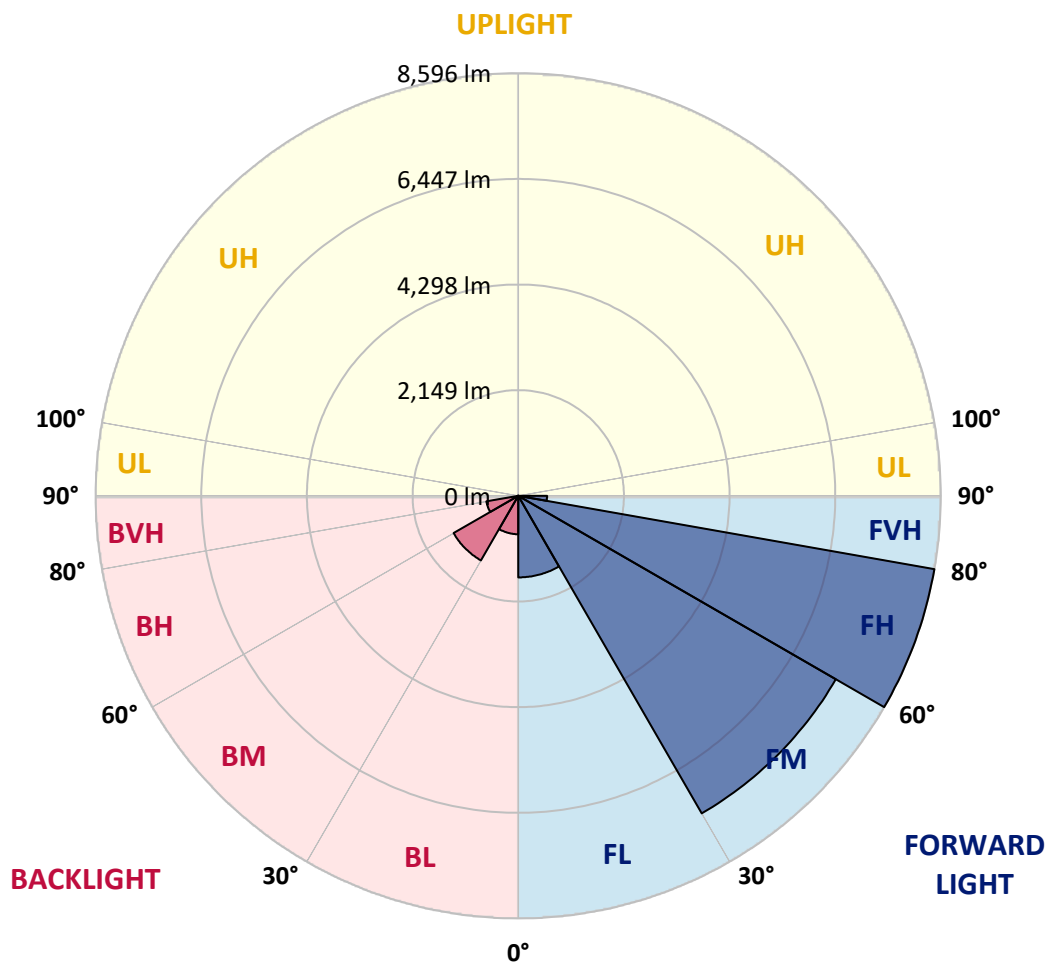
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1659.7	7.8			
FM	(30°-60°)	7458.1	35.0			
FH	(60°-80°)	8595.7	40.4			G4/12000
FVH	(80°-90°)	585.5	2.8			G4/750
BL	(0°-30°)	781.1	3.7	B2/1000		
BM	(30°-60°)	1517.5	7.1	B2/2500		
BH	(60°-80°)	658.0	3.1	B2/1000		G2/1000
BVH	(80°-90°)	23.4	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°	2946.5	2946.5	2946.5	2946.5	2946.5	2946.5	2946.5	2946.5	2946.5	2946.5	2946.5
2.5°	3329.1	3271.9	3238.2	3154.6	3071.1	3003.7	2912.7	2852.7	2780.8	2711.9	2650.3
5°	3710.2	3617.8	3506.4	3354.0	3214.7	3072.5	2934.8	2798.5	2654.7	2522.8	2442.2
7.5°	4032.7	3899.3	3702.9	3500.6	3323.2	3151.7	2990.4	2810.1	2635.7	2429.0	2319.1
10°	4279.0	4108.9	3850.9	3585.6	3381.8	3208.9	3052.0	2899.5	2723.6	2474.5	2336.7
12.5°	4428.5	4246.7	3940.3	3629.5	3396.5	3203.0	3081.4	3013.9	2945.0	2697.3	2536.1
15°	4538.4	4342.0	4003.3	3660.4	3362.8	3125.3	3035.8	3103.3	3182.4	3024.2	2838.0
17.5°	4652.8	4446.0	4085.4	3673.5	3271.9	2974.3	2936.2	3110.7	3293.8	3286.6	3101.9
20°	4761.2	4556.0	4157.3	3664.8	3125.3	2791.1	2824.8	3047.6	3260.1	3349.6	3249.9
22.5°	4885.9	4668.9	4226.2	3631.1	2934.8	2619.6	2725.1	2947.9	3134.1	3239.6	3208.9
25°	5038.3	4811.0	4322.9	3581.1	2729.5	2477.3	2624.0	2832.1	2983.1	3056.4	3054.9
27.5°	5202.5	4981.1	4452.0	3554.8	2563.8	2376.3	2509.6	2694.3	2829.2	2880.5	2880.5
30°	5406.3	5179.0	4604.4	3525.5	2455.4	2317.6	2390.9	2534.5	2666.4	2717.8	2717.8
32.5°	5629.1	5398.9	4751.0	3455.2	2389.4	2273.7	2275.1	2366.0	2486.1	2547.7	2556.6
35°	5907.6	5662.8	4907.8	3301.2	2336.7	2222.3	2162.2	2206.2	2305.8	2379.1	2398.2
37.5°	6304.9	6008.8	5099.9	3081.4	2259.0	2143.2	2043.4	2053.7	2130.0	2210.6	2239.9
40°	6853.0	6473.4	5325.6	2852.7	2147.6	2031.8	1913.0	1908.7	1964.3	2043.4	2075.7
42.5°	7594.8	7087.7	5596.8	2634.2	2040.6	1896.9	1775.2	1767.9	1811.9	1880.8	1914.5
45°	8574.0	7873.3	5929.5	2446.6	1956.9	1764.9	1644.7	1641.8	1678.4	1738.6	1773.8
47.5°	9827.4	8965.5	6262.3	2319.1	1913.0	1660.9	1537.7	1543.5	1575.8	1630.1	1655.0
50°	11450.2	10388.9	6363.5	2254.6	1913.0	1605.1	1442.5	1471.8	1498.1	1539.2	1553.9
52.5°	13395.4	11755.0	6029.3	2196.0	1924.7	1612.5	1361.8	1424.9	1443.9	1479.1	1484.9
55°	15198.5	12424.9	5183.4	2115.3	1927.6	1657.9	1292.9	1386.7	1421.9	1435.1	1433.7
57.5°	16245.1	12194.8	4191.0	1979.0	1915.9	1688.7	1249.0	1339.9	1407.2	1416.0	1402.9
60°	16045.8	11387.1	3085.8	1874.9	1829.4	1677.0	1235.7	1268.0	1375.0	1388.2	1370.6
62.5°	14509.5	10032.6	2141.6	1794.3	1638.9	1625.6	1231.3	1155.2	1304.6	1336.9	1312.0
65°	11662.8	7898.2	1512.8	1545.1	1436.5	1514.2	1207.9	1037.8	1219.6	1263.6	1225.5
67.5°	8461.2	5344.7	1092.1	1251.8	1301.8	1333.9	1155.2	952.8	1122.9	1181.5	1131.7
70°	5429.7	2886.4	766.7	826.8	1096.5	1133.1	1064.3	876.6	1024.7	1092.1	1037.8
72.5°	3859.7	1704.9	551.1	579.0	881.0	944.0	936.7	791.6	910.3	992.4	927.9
75°	2663.6	939.6	372.4	413.4	639.1	766.7	722.7	680.2	771.1	854.6	791.6
77.5°	1669.6	420.8	222.8	287.3	419.2	602.5	495.5	526.2	601.1	678.8	612.7
80°	929.4	162.7	124.6	190.5	228.7	438.3	274.1	338.7	442.7	498.5	445.7
82.5°	202.3	20.5	55.7	82.1	89.4	255.0	145.1	196.4	278.5	274.1	237.5
85°	0.0	0.0	10.2	11.7	5.8	110.0	52.8	64.5	90.9	85.0	64.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	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°	2946.5	2946.5	2946.5	2946.5	2946.5	2946.5	2946.5	2946.5	2946.5	2946.5	2946.5
2.5°	2638.7	2566.8	2514.0	2487.7	2465.6	2486.1	2497.9	2497.9	2547.7	2577.1	2588.7
5°	2390.9	2261.9	2163.7	2097.7	2058.1	2071.3	2086.0	2102.1	2165.1	2207.6	2235.5
7.5°	2219.3	2021.5	1872.0	1779.6	1731.2	1738.6	1748.9	1762.0	1823.6	1866.1	1902.7
10°	2187.1	1902.7	1691.7	1570.0	1511.4	1501.1	1495.3	1490.9	1527.5	1559.7	1589.1
12.5°	2319.1	1908.7	1614.0	1465.9	1394.1	1363.2	1328.1	1300.2	1306.2	1326.7	1363.2
15°	2555.0	1983.4	1589.1	1411.6	1322.2	1270.9	1229.9	1196.2	1188.8	1196.2	1202.0
17.5°	2824.8	2084.5	1586.1	1364.8	1253.4	1200.6	1166.9	1136.1	1125.9	1127.3	1134.6
20°	3003.7	2165.1	1577.3	1312.0	1187.4	1140.5	1111.2	1080.4	1070.1	1073.1	1074.5
22.5°	3021.2	2207.6	1564.1	1253.4	1121.5	1081.8	1052.5	1024.7	1023.2	1023.2	1032.0
25°	2926.0	2207.6	1536.3	1200.6	1058.4	1023.2	996.8	963.1	968.9	971.9	983.6
27.5°	2777.9	2154.9	1483.5	1158.0	1004.2	967.5	941.2	910.3	917.7	922.1	935.2
30°	2631.3	2087.4	1420.4	1109.7	952.8	910.3	891.2	864.9	867.8	873.7	888.4
32.5°	2495.0	2015.7	1345.7	1070.1	901.5	859.1	844.4	815.1	819.5	825.3	841.4
35°	2360.1	1936.4	1257.8	1023.2	854.6	812.1	800.4	766.7	769.6	778.4	796.0
37.5°	2215.0	1852.9	1185.9	976.3	809.1	765.2	753.5	718.3	721.2	731.4	752.0
40°	2062.5	1770.8	1115.5	926.5	760.8	716.8	706.5	668.4	671.4	683.1	705.1
42.5°	1908.7	1681.4	1061.3	861.9	710.9	664.1	653.7	618.6	623.0	636.2	658.2
45°	1766.4	1574.4	1026.1	790.1	664.1	611.3	601.1	568.8	577.6	592.2	614.2
47.5°	1644.7	1464.4	1011.5	730.0	614.2	557.1	548.3	521.8	536.5	552.7	570.2
50°	1540.7	1358.8	992.4	668.4	567.3	510.1	501.3	483.7	502.8	519.0	535.0
52.5°	1465.9	1238.7	951.4	612.7	526.2	470.6	467.6	458.8	476.4	491.1	505.7
55°	1401.4	1114.1	885.4	564.4	489.6	436.9	439.7	435.4	450.1	461.8	475.0
57.5°	1342.7	1005.6	801.9	526.2	450.1	407.5	416.4	410.4	417.8	425.1	441.3
60°	1272.4	895.6	702.1	483.7	403.1	378.2	388.5	372.4	370.8	373.8	378.2
62.5°	1168.3	747.6	598.1	431.0	362.0	345.9	350.3	319.6	296.1	296.1	300.5
65°	1023.2	601.1	501.3	372.4	315.2	302.0	299.1	255.0	222.8	219.9	233.1
67.5°	854.6	494.0	416.4	313.8	262.4	253.6	256.6	224.3	192.0	189.1	203.8
70°	696.3	409.0	335.7	250.7	202.3	211.0	224.3	192.0	161.2	156.8	170.0
72.5°	565.8	325.4	262.4	192.0	149.5	174.5	190.5	156.8	127.5	124.6	136.3
75°	436.9	238.9	187.7	130.5	108.4	134.9	149.5	114.4	90.9	86.5	96.8
77.5°	291.7	148.0	105.6	82.1	64.5	92.4	99.7	60.1	52.8	51.4	58.6
80°	177.3	68.9	45.4	39.6	22.0	33.7	39.6	24.9	27.9	29.3	35.2
82.5°	89.4	19.1	7.4	1.4	0.0	0.0	11.7	5.8	11.7	14.7	22.0
85°	7.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	7.4	13.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8
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°	2946.5	2946.5	2946.5	2946.5	2946.5	2946.5	2946.5	2946.5	2946.5	2946.5	2946.5
2.5°	2670.8	2732.4	2791.1	2884.9	2981.6	3076.9	3173.7	3267.5	3301.2	3326.1	3381.8
5°	2363.0	2478.9	2613.8	2799.9	2999.3	3204.5	3412.6	3603.2	3689.7	3748.3	3880.2
7.5°	2045.0	2196.0	2389.4	2669.4	2981.6	3308.5	3635.5	3935.9	4075.2	4188.0	4388.9
10°	1729.8	1894.0	2138.8	2458.4	2880.5	3349.6	3801.1	4214.5	4394.8	4537.0	4809.6
12.5°	1452.7	1606.6	1863.1	2216.5	2722.2	3317.3	3896.3	4393.4	4605.8	4765.6	5064.7
15°	1257.8	1366.2	1593.5	1974.6	2534.5	3213.3	3902.3	4478.3	4711.4	4878.5	5138.0
17.5°	1149.2	1185.9	1333.9	1728.3	2326.3	3076.9	3848.0	4507.6	4756.8	4912.2	5092.5
20°	1090.6	1096.5	1137.5	1408.8	2059.6	2949.4	3796.7	4537.0	4799.4	4929.8	4984.1
22.5°	1043.8	1043.8	1054.0	1152.2	1715.1	2796.9	3780.5	4588.3	4858.0	4938.7	4827.2
25°	1001.2	1001.2	1004.2	1030.5	1358.8	2563.8	3770.3	4667.4	4938.7	4960.6	4654.2
27.5°	957.2	958.7	958.7	973.3	1095.0	2247.2	3726.3	4770.0	5035.4	4989.9	4488.6
30°	913.3	916.1	916.1	926.5	968.9	1876.4	3639.9	4893.1	5161.4	5028.0	4324.4
32.5°	869.3	872.2	872.2	881.0	911.8	1498.1	3531.3	5006.1	5289.0	5044.1	4172.0
35°	823.8	828.2	825.3	837.0	869.3	1191.8	3393.6	5119.0	5426.8	5095.5	4097.2
37.5°	778.4	781.4	779.8	791.6	828.2	1029.1	3233.8	5203.9	5614.4	5209.8	4186.6
40°	733.0	731.4	731.4	744.7	784.2	982.2	3033.0	5338.8	5884.1	5410.7	4576.5
42.5°	686.0	686.0	683.1	697.8	746.1	947.0	2840.9	5580.7	6277.0	5730.2	5268.4
45°	643.5	642.1	636.2	649.4	709.5	885.4	2773.4	6032.2	6857.5	6247.7	6105.5
47.5°	602.5	601.1	586.4	598.1	665.5	829.7	3025.6	6770.9	7662.3	7008.4	6889.7
50°	565.8	567.3	539.5	549.7	621.6	787.2	3572.4	7729.7	8730.9	8033.1	7633.0
52.5°	532.1	532.1	495.5	501.3	567.3	749.1	4092.8	8769.0	10141.1	9462.4	8499.3
55°	498.5	495.5	454.4	457.4	513.1	694.8	4170.5	9783.4	12064.4	11612.8	9683.8
57.5°	460.3	454.4	416.4	416.4	463.2	655.3	3614.9	10563.2	14450.9	14773.3	11391.5
60°	413.4	409.0	384.1	376.7	423.6	690.4	2550.7	10654.2	15990.0	18976.1	14661.9
62.5°	353.3	359.2	345.9	335.7	385.5	716.8	1511.4	9922.7	15617.7	20312.9	18578.8
65°	278.5	302.0	299.1	291.7	423.6	603.9	892.8	8518.4	14475.8	19234.1	17780.0
67.5°	237.5	253.6	249.2	249.2	444.1	458.8	561.4	6655.2	12904.3	17954.3	15881.6
70°	202.3	218.4	202.3	202.3	335.7	278.5	388.5	4646.9	11208.3	16538.3	14635.6
72.5°	167.1	183.3	165.6	154.0	268.2	208.2	284.3	2903.9	9598.7	15063.6	13782.4
75°	127.5	146.6	133.4	118.7	177.3	155.4	215.5	1687.3	7952.5	12888.2	12567.2
77.5°	80.7	105.6	99.7	83.5	130.5	112.9	155.4	1004.2	6136.3	10070.7	10809.5
80°	49.8	54.2	55.7	52.8	74.7	76.3	105.6	571.7	4199.8	7018.7	8445.1
82.5°	32.3	32.3	24.9	27.9	36.7	44.0	60.1	215.5	2468.6	4273.1	5878.3
85°	23.5	20.5	13.2	13.2	17.6	22.0	23.5	66.0	1001.2	1687.3	2298.6
87.5°	11.7	10.2	4.4	5.8	8.8	7.4	5.8	3.0	252.2	539.5	378.2
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-SB6A-735-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	2946.5	2946.5	2946.5	2946.5	2946.5	2946.5	2946.5	2946.5
2.5°	3411.2	3456.6	3459.5	3459.5	3419.9	3418.5	3337.8	3329.1
5°	4016.6	4045.9	4053.3	4038.6	3959.4	3900.7	3743.9	3710.2
7.5°	4570.7	4629.3	4629.3	4594.2	4465.1	4345.0	4117.7	4032.7
10°	5013.4	5080.8	5066.2	4994.3	4831.6	4666.0	4390.4	4279.0
12.5°	5228.8	5297.8	5259.7	5177.6	5019.2	4844.8	4554.6	4428.5
15°	5224.4	5205.5	5165.8	5155.5	5079.4	4947.4	4676.3	4538.4
17.5°	5038.3	4877.1	4846.3	4948.9	5045.7	5013.4	4781.7	4652.8
20°	4743.7	4462.2	4434.4	4630.7	4906.4	5047.1	4880.0	4761.2
22.5°	4432.9	4129.4	4064.9	4281.9	4696.8	5057.3	5004.6	4885.9
25°	4138.2	3833.3	3768.8	3971.2	4463.7	5039.7	5139.5	5038.3
27.5°	3891.9	3597.3	3537.2	3739.5	4239.4	4989.9	5274.3	5202.5
30°	3701.4	3428.7	3384.8	3579.7	4045.9	4928.4	5445.8	5406.3
32.5°	3590.0	3390.6	3406.8	3566.5	3941.8	4861.0	5610.0	5629.1
35°	3699.9	3708.8	3849.5	3915.4	4038.6	4850.7	5832.9	5907.6
37.5°	4246.7	4551.6	4843.3	4789.1	4512.0	4969.4	6165.6	6304.9
40°	5177.6	5803.5	6277.0	6070.3	5372.5	5333.0	6645.0	6853.0
42.5°	6315.1	7376.4	8156.2	7602.1	6482.2	5969.2	7329.5	7594.8
45°	7515.7	9315.8	10544.2	9392.1	7665.2	6860.4	8365.8	8574.0
47.5°	8780.8	11673.0	13262.0	11376.9	8761.7	7874.9	9779.0	9827.4
50°	10164.5	14257.3	16032.5	13360.3	9820.1	9037.3	11505.8	11450.2
52.5°	11482.4	16915.1	18744.5	15352.3	10749.5	10479.7	13509.7	13395.4
55°	12740.1	19571.2	21472.5	17266.8	11626.1	12385.4	15890.4	15198.5
57.5°	14198.7	21959.2	24284.1	19190.2	12851.6	14859.8	18552.4	16245.1
60°	16355.1	24672.6	27463.6	21825.8	15182.3	17460.4	19506.8	16045.8
62.5°	19108.0	27167.5	29775.3	24408.7	17523.4	17950.0	18101.0	14509.5
65°	19643.1	27799.3	29905.8	25099.2	17221.4	15226.3	14777.7	11662.8
67.5°	18224.1	26657.4	28082.2	23813.5	15233.7	11766.8	11089.6	8461.2
70°	16632.1	24480.6	24904.2	21627.9	13398.3	8654.7	7489.3	5429.7
72.5°	15000.6	21576.6	20700.0	18782.6	11775.6	6301.9	5401.9	3859.7
75°	13062.6	17757.9	16305.2	15605.9	9749.7	4945.9	3908.1	2663.6
77.5°	10460.6	12499.8	12111.3	12096.6	7326.6	3613.4	2607.8	1669.6
80°	7379.4	8112.3	7914.4	9110.6	4915.2	2621.0	1570.0	929.4
82.5°	3572.4	4485.7	4604.4	5425.3	2390.9	1542.1	362.0	202.3
85°	1398.5	2163.7	1825.0	2059.6	671.4	429.5	8.8	0.0
87.5°	156.8	250.7	230.1	181.7	82.1	17.6	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)