

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: P966177

Luminaire Tested: **NAV-SB4B-740-U-SLR**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P966177
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB4B-740-U-SLR
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24385.8 lumens
Efficiency: N/A
Efficacy: 165.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 147
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

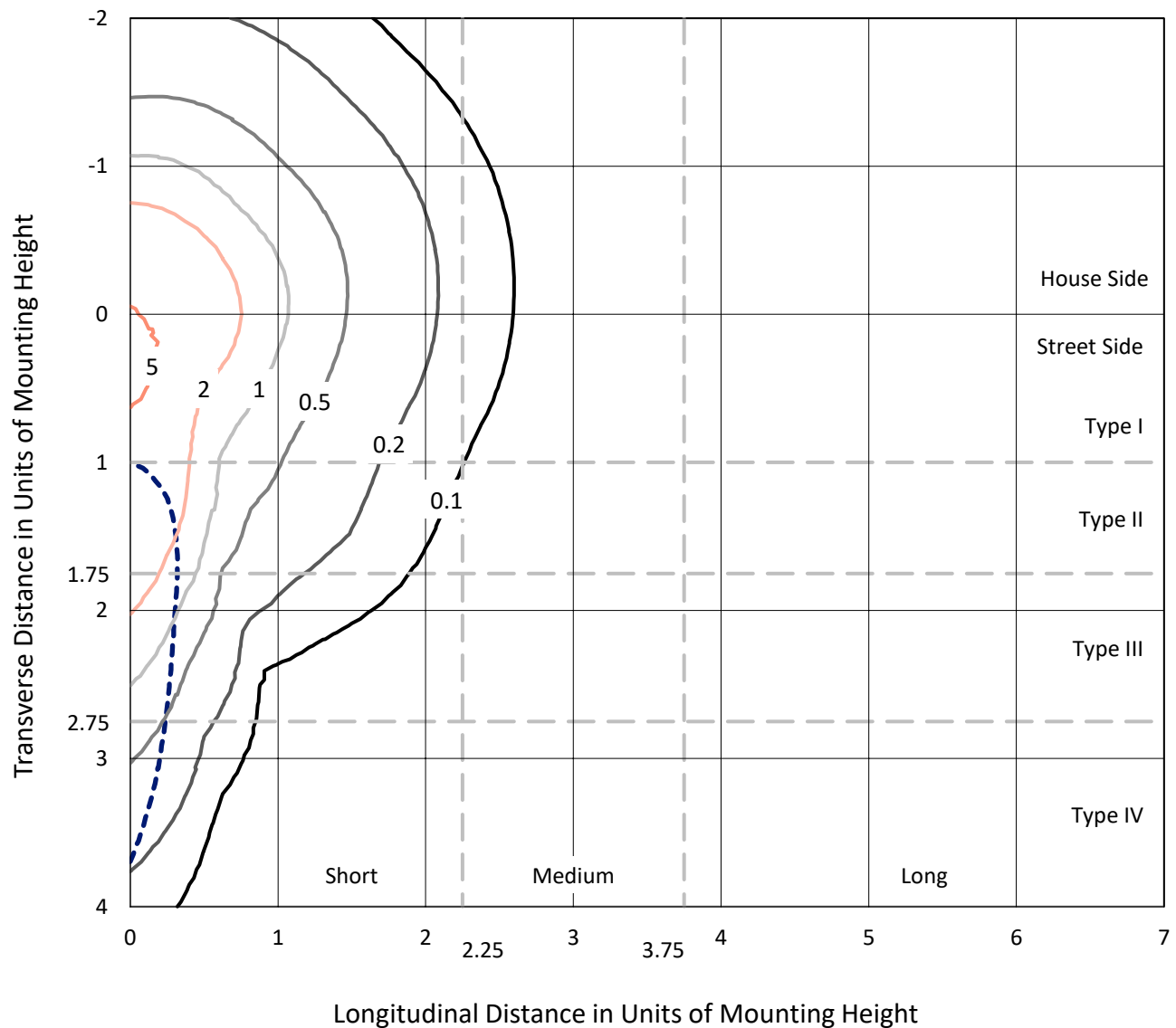


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Iso-Footcandle Lines of Horizontal Illumination

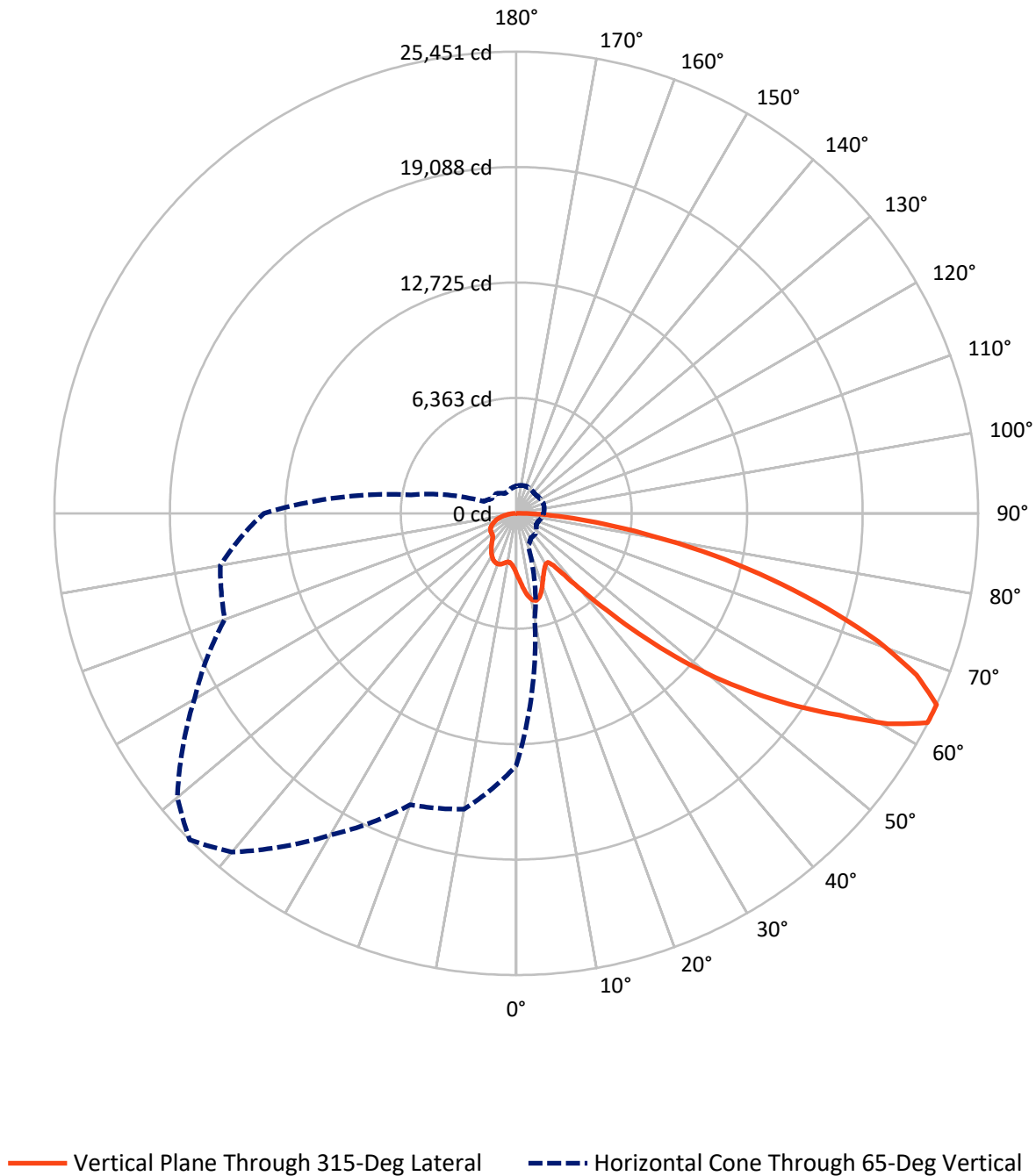
× Max cd
- - - 1/2 Max cd



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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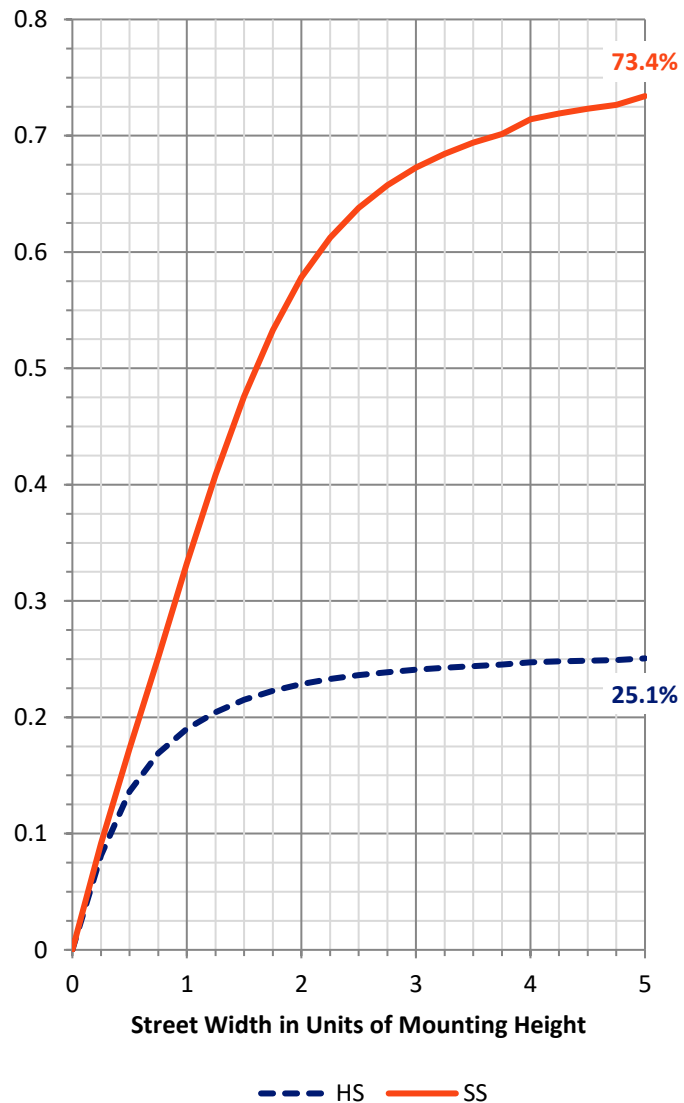
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6197.6	0.0	6197.6
	% Fixture	25.4	0.0	25.4
Street Side	Lumens	18188.1	0.0	18188.1
	% Fixture	74.6	0.0	74.6
Total	Lumens	24385.8	0.0	24385.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	332.6	1.4
10°-20°	1044.2	4.3
20°-30°	1613.0	6.6
30°-40°	2044.0	8.4
40°-50°	3082.9	12.6
50°-60°	4980.9	20.4
60°-70°	6209.5	25.5
70°-80°	4071.9	16.7
80°-90°	1006.7	4.1
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°	24385.8	100.0
0°-180°	24385.8	100.0

Coefficient of Utilization



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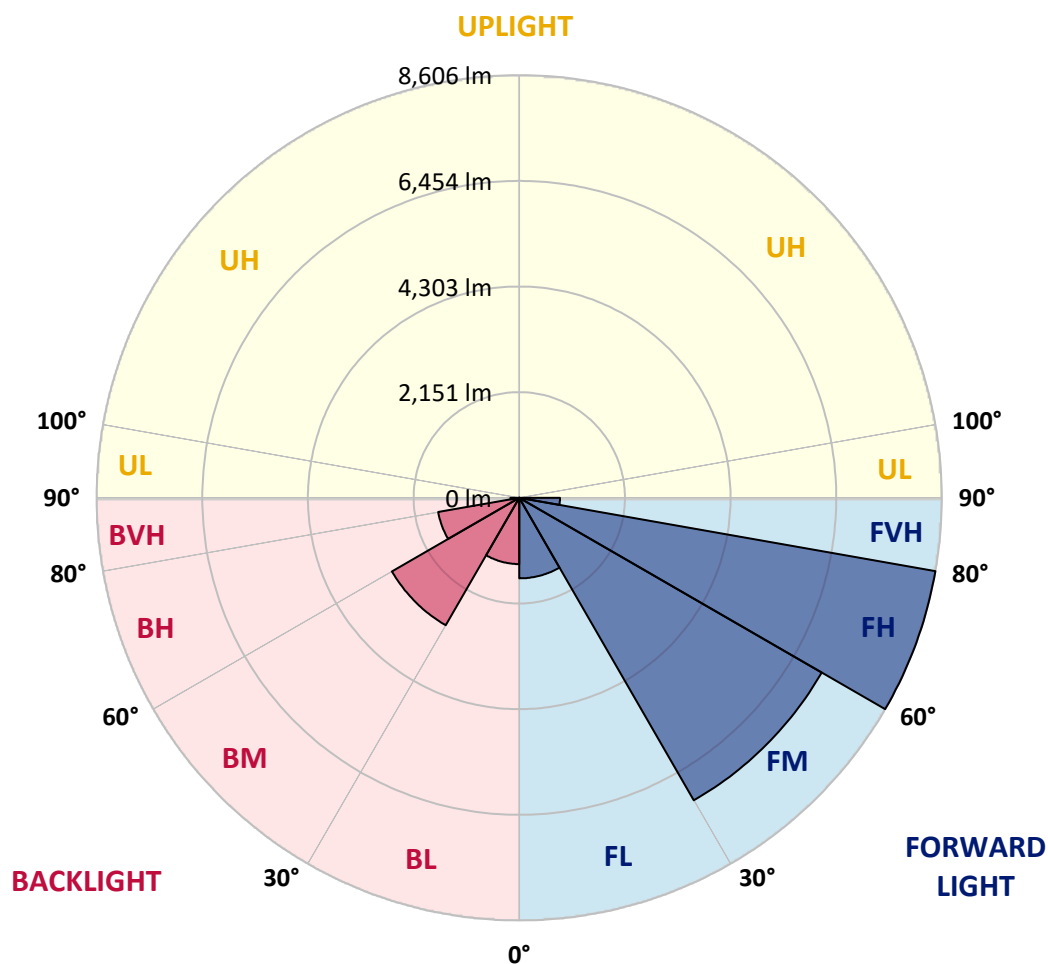
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1640.2	6.7			
FM	(30°-60°)	7112.8	29.2			
FH	(60°-80°)	8605.8	35.3			G4/12000
FVH	(80°-90°)	829.3	3.4			G5
BL	(0°-30°)	1349.6	5.5	B3/2500		
BM	(30°-60°)	2995.1	12.3	B3/5000		
BH	(60°-80°)	1675.6	6.9	B3/2500		G3/2500
BVH	(80°-90°)	177.4	0.7			G2/225
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°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3353.3	3353.3	3353.3	3353.3	3353.3	3353.3	3353.3	3353.3	3353.3	3353.3	3353.3
2.5°	3606.1	3578.5	3550.8	3521.3	3492.0	3462.3	3432.7	3404.4	3376.1	3348.8	3318.2
5°	3877.6	3816.5	3755.4	3694.4	3633.5	3572.1	3510.8	3453.6	3396.3	3342.3	3288.9
7.5°	4150.4	4049.5	3948.7	3855.6	3762.5	3671.8	3581.0	3501.1	3421.2	3347.4	3278.4
10°	4359.5	4232.0	4104.4	3981.3	3858.3	3748.1	3637.9	3543.4	3448.7	3357.8	3283.5
12.5°	4487.6	4347.4	4207.4	4067.9	3928.4	3798.4	3668.5	3561.6	3454.7	3359.0	3289.9
15°	4565.3	4419.3	4273.2	4121.9	3970.6	3821.0	3671.3	3547.5	3423.8	3317.8	3262.6
17.5°	4609.1	4461.0	4312.9	4147.9	3982.7	3809.0	3635.3	3486.4	3337.6	3213.0	3178.9
20°	4657.4	4503.4	4349.5	4168.1	3986.6	3776.1	3565.6	3381.1	3196.6	3051.5	3042.5
22.5°	4713.4	4556.1	4398.7	4195.3	3991.8	3735.7	3479.6	3257.3	3035.1	2870.1	2887.7
25°	4785.4	4631.3	4477.2	4244.7	4012.1	3695.7	3379.6	3119.3	2859.1	2689.9	2737.6
27.5°	4883.2	4736.2	4589.1	4321.9	4054.5	3669.2	3283.8	2993.1	2702.4	2548.4	2606.3
30°	5015.1	4873.1	4731.1	4421.8	4112.7	3656.7	3200.4	2887.6	2574.8	2445.4	2490.9
32.5°	5170.8	5030.2	4889.7	4526.3	4162.8	3641.2	3119.3	2796.6	2473.7	2369.5	2389.8
35°	5359.9	5225.3	5090.7	4645.1	4199.6	3612.1	3024.9	2707.2	2389.5	2302.7	2294.3
37.5°	5678.4	5506.7	5335.1	4778.3	4221.6	3562.4	2903.1	2602.0	2300.7	2224.8	2194.1
40°	6159.6	5909.5	5659.3	4947.4	4235.3	3493.8	2752.3	2476.3	2200.4	2131.5	2084.5
42.5°	6797.9	6436.8	6075.8	5168.6	4261.4	3423.0	2584.8	2337.7	2090.7	2027.2	1968.1
45°	7586.0	7098.9	6612.0	5459.7	4307.4	3357.3	2407.2	2190.5	1973.8	1909.6	1852.3
47.5°	8571.7	7886.1	7200.6	5769.7	4338.9	3303.0	2267.0	2074.1	1881.2	1798.3	1749.0
50°	9863.6	8830.2	7796.7	6057.4	4318.3	3243.7	2169.2	1996.8	1824.3	1715.2	1657.9
52.5°	11346.5	9821.8	8297.0	6244.3	4191.5	3143.8	2096.1	1945.9	1795.7	1670.2	1590.2
55°	12925.4	10700.8	8476.4	6203.1	3929.7	2978.0	2026.3	1908.9	1791.4	1674.7	1554.1
57.5°	14361.4	11323.9	8286.4	5913.3	3540.5	2744.3	1948.1	1865.1	1782.2	1679.2	1532.5
60°	15229.2	11479.6	7729.7	5374.1	3018.4	2440.9	1863.4	1798.3	1733.0	1665.0	1512.2
62.5°	14788.5	10824.0	6859.4	4644.9	2430.4	2077.9	1725.3	1681.9	1638.7	1630.3	1488.5
65°	13906.5	9896.4	5886.2	3900.8	1915.7	1751.1	1586.6	1566.1	1545.6	1546.6	1438.6
67.5°	12724.7	8792.4	4860.2	3172.1	1483.9	1437.2	1390.3	1401.8	1413.1	1410.3	1349.5
70°	11304.7	7588.0	3871.1	2497.6	1124.0	1137.3	1150.6	1203.7	1256.5	1256.5	1236.6
72.5°	9612.7	6282.1	2951.8	1909.4	867.0	907.3	947.7	1022.8	1097.9	1110.5	1110.7
75°	7472.1	4785.3	2098.4	1385.8	673.2	709.8	746.3	830.5	914.6	972.8	967.9
77.5°	5338.7	3349.3	1359.9	939.1	518.3	543.1	568.1	649.8	731.5	827.4	824.8
80°	3494.1	2157.8	821.5	605.1	388.6	398.9	409.2	478.4	547.6	662.0	661.6
82.5°	2031.1	1249.0	466.8	372.2	277.7	279.5	281.6	332.5	383.5	481.2	486.7
85°	893.6	561.8	230.1	199.0	167.9	167.0	165.9	203.3	240.7	313.3	320.4
87.5°	276.6	184.0	91.3	82.5	73.6	72.7	71.8	87.0	102.3	132.5	141.6
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	3353.3	3353.3	3353.3	3353.3	3353.3	3353.3	3353.3	3353.3	3353.3	3353.3	3353.3
2.5°	3293.5	3268.9	3246.7	3224.5	3205.2	3185.7	3166.1	3146.7	3131.7	3116.5	3104.3
5°	3242.4	3195.6	3156.5	3117.5	3083.0	3048.6	3017.3	2985.9	2961.8	2937.6	2920.7
7.5°	3216.3	3154.4	3103.0	3051.5	3008.2	2964.6	2926.3	2888.1	2859.4	2830.8	2810.8
10°	3218.2	3152.8	3101.3	3049.9	3003.1	2956.3	2913.2	2870.1	2835.9	2801.5	2779.1
12.5°	3236.4	3183.1	3148.9	3115.0	3078.2	3041.6	2997.0	2952.4	2908.6	2865.0	2836.0
15°	3237.0	3211.4	3216.0	3220.8	3211.2	3201.7	3162.9	3124.2	3062.0	2999.7	2955.7
17.5°	3188.3	3197.6	3253.7	3309.7	3339.7	3369.4	3338.1	3307.0	3224.4	3141.9	3077.2
20°	3086.3	3130.0	3227.4	3324.9	3387.3	3449.7	3435.4	3420.8	3326.5	3232.3	3152.8
22.5°	2952.4	3017.2	3128.3	3239.7	3321.0	3402.2	3410.9	3419.5	3329.4	3239.4	3157.5
25°	2812.2	2886.8	2986.7	3086.9	3166.8	3246.7	3276.5	3306.2	3232.4	3158.7	3085.9
27.5°	2678.3	2750.4	2832.6	2914.7	2978.9	3042.9	3076.1	3109.4	3056.8	3004.3	2947.8
30°	2548.0	2605.4	2673.6	2741.8	2795.0	2848.2	2875.2	2902.3	2862.2	2822.1	2781.6
32.5°	2423.6	2457.4	2511.9	2566.4	2617.3	2668.5	2698.4	2728.5	2691.8	2654.9	2622.5
35°	2303.5	2312.9	2354.5	2395.9	2446.4	2496.9	2533.0	2569.0	2542.7	2516.6	2486.8
37.5°	2183.9	2173.6	2203.4	2233.2	2283.5	2333.9	2378.4	2422.9	2410.8	2398.7	2371.3
40°	2061.3	2037.9	2059.4	2081.0	2129.5	2178.2	2229.4	2280.7	2283.7	2286.6	2263.3
42.5°	1937.1	1906.3	1923.8	1941.5	1987.5	2033.7	2089.1	2144.4	2159.2	2173.9	2154.2
45°	1822.1	1792.2	1806.9	1821.7	1865.5	1909.3	1966.7	2024.1	2045.3	2066.5	2048.8
47.5°	1723.7	1698.5	1712.4	1726.2	1769.0	1811.7	1868.4	1925.0	1949.4	1973.8	1961.5
50°	1635.6	1613.4	1635.0	1656.7	1697.1	1737.4	1788.0	1838.7	1870.1	1901.6	1900.8
52.5°	1568.0	1546.0	1578.6	1611.0	1648.1	1685.0	1732.2	1779.6	1816.7	1853.9	1860.7
55°	1519.2	1484.3	1530.4	1576.6	1616.4	1656.3	1697.7	1739.0	1778.4	1817.9	1827.2
57.5°	1481.5	1430.6	1480.3	1529.9	1576.8	1623.6	1664.5	1705.6	1745.4	1784.9	1794.4
60°	1446.2	1380.1	1423.6	1467.2	1520.9	1574.7	1616.3	1657.9	1697.8	1737.8	1748.0
62.5°	1405.9	1323.4	1351.1	1378.7	1441.5	1504.2	1548.6	1593.0	1629.5	1666.0	1676.0
65°	1350.8	1262.9	1273.7	1284.1	1351.4	1418.6	1461.1	1503.6	1535.8	1567.9	1578.1
67.5°	1276.4	1203.4	1200.0	1196.7	1258.7	1320.8	1361.1	1401.3	1429.1	1456.8	1466.8
70°	1184.6	1132.6	1121.0	1109.5	1164.0	1218.5	1253.3	1288.0	1313.1	1338.2	1347.8
72.5°	1075.1	1039.5	1022.4	1005.6	1048.6	1091.4	1122.8	1154.3	1178.8	1203.4	1214.7
75°	940.4	913.0	896.8	880.4	912.4	944.2	972.6	1001.1	1023.5	1045.9	1057.7
77.5°	802.8	780.8	764.3	747.8	773.9	799.7	824.2	848.6	872.2	895.5	906.6
80°	643.3	624.7	610.9	597.1	618.7	640.1	660.7	681.3	699.3	717.0	731.6
82.5°	477.6	468.6	458.9	449.1	447.3	445.5	438.3	431.0	469.1	507.3	532.2
85°	310.8	301.1	290.2	279.2	270.0	260.6	240.7	220.7	256.4	292.1	323.0
87.5°	137.7	133.9	131.7	129.7	129.4	128.9	113.8	98.4	113.4	128.4	140.9
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	3353.3	3353.3	3353.3	3353.3	3353.3	3353.3	3353.3	3353.3	3353.3	3353.3	3353.3
2.5°	3092.0	3082.5	3073.1	3064.2	3055.4	3044.5	3055.4	3064.2	3073.1	3082.5	3092.0
5°	2903.9	2891.9	2879.9	2870.8	2861.7	2852.7	2861.7	2870.8	2879.9	2891.9	2903.9
7.5°	2790.7	2776.9	2763.3	2755.1	2746.9	2740.7	2746.9	2755.1	2763.3	2776.9	2790.7
10°	2756.4	2743.5	2730.5	2723.5	2716.6	2713.8	2716.6	2723.5	2730.5	2743.5	2756.4
12.5°	2807.1	2792.5	2778.1	2772.1	2766.3	2765.2	2766.3	2772.1	2778.1	2792.5	2807.1
15°	2911.6	2891.4	2871.3	2863.6	2856.0	2855.2	2856.0	2863.6	2871.3	2891.4	2911.6
17.5°	3012.3	2982.4	2952.4	2942.7	2932.7	2931.2	2932.7	2942.7	2952.4	2982.4	3012.3
20°	3073.4	3035.1	2996.8	2984.6	2972.4	2968.5	2972.4	2984.6	2996.8	3035.1	3073.4
22.5°	3075.6	3035.3	2994.8	2981.4	2967.9	2962.0	2967.9	2981.4	2994.8	3035.3	3075.6
25°	3013.3	2978.3	2943.4	2930.7	2918.1	2910.6	2918.1	2930.7	2943.4	2978.3	3013.3
27.5°	2891.3	2867.8	2844.4	2838.5	2832.8	2830.8	2832.8	2838.5	2844.4	2867.8	2891.3
30°	2741.1	2729.1	2717.0	2717.0	2717.0	2718.9	2717.0	2717.0	2717.0	2729.1	2741.1
32.5°	2590.2	2582.4	2574.5	2575.5	2576.7	2578.6	2576.7	2575.5	2574.5	2582.4	2590.2
35°	2457.0	2445.0	2433.2	2430.7	2428.1	2426.8	2428.1	2430.7	2433.2	2445.0	2457.0
37.5°	2343.8	2322.0	2300.4	2289.0	2277.5	2271.1	2277.5	2289.0	2300.4	2322.0	2343.8
40°	2239.9	2208.3	2176.9	2155.6	2134.5	2121.9	2134.5	2155.6	2176.9	2208.3	2239.9
42.5°	2134.7	2095.5	2056.3	2025.2	1994.2	1973.8	1994.2	2025.2	2056.3	2095.5	2134.7
45°	2031.1	1986.2	1941.5	1905.1	1868.6	1845.2	1868.6	1905.1	1941.5	1986.2	2031.1
47.5°	1949.1	1909.3	1869.4	1835.7	1802.1	1779.6	1802.1	1835.7	1869.4	1909.3	1949.1
50°	1900.2	1868.4	1836.4	1805.3	1774.2	1752.5	1774.2	1805.3	1836.4	1868.4	1900.2
52.5°	1867.3	1841.3	1815.4	1787.4	1759.6	1739.6	1759.6	1787.4	1815.4	1841.3	1867.3
55°	1836.4	1813.8	1791.2	1766.7	1742.3	1724.3	1742.3	1766.7	1791.2	1813.8	1836.4
57.5°	1803.8	1780.8	1758.0	1733.8	1709.4	1690.7	1709.4	1733.8	1758.0	1780.8	1803.8
60°	1758.3	1735.9	1713.7	1688.7	1663.8	1644.4	1663.8	1688.7	1713.7	1735.9	1758.3
62.5°	1685.9	1665.7	1645.5	1619.2	1593.0	1569.8	1593.0	1619.2	1645.5	1665.7	1685.9
65°	1588.1	1568.7	1549.3	1523.8	1498.4	1478.5	1498.4	1523.8	1549.3	1568.7	1588.1
67.5°	1476.5	1458.7	1440.9	1417.3	1393.6	1375.6	1393.6	1417.3	1440.9	1458.7	1476.5
70°	1357.3	1342.7	1328.2	1305.5	1282.9	1262.3	1282.9	1305.5	1328.2	1342.7	1357.3
72.5°	1226.0	1213.9	1201.8	1180.2	1158.8	1138.8	1158.8	1180.2	1201.8	1213.9	1226.0
75°	1069.6	1063.6	1057.7	1039.6	1021.4	1002.3	1021.4	1039.6	1057.7	1063.6	1069.6
77.5°	917.7	909.5	901.0	882.7	864.5	849.2	864.5	882.7	901.0	909.5	917.7
80°	746.3	742.7	739.2	714.6	689.9	661.4	689.9	714.6	739.2	742.7	746.3
82.5°	557.2	555.7	553.9	533.2	512.4	494.2	512.4	533.2	553.9	555.7	557.2
85°	353.8	351.3	348.7	332.5	316.3	299.8	316.3	332.5	348.7	351.3	353.8
87.5°	153.3	150.3	147.0	138.7	130.2	122.3	130.2	138.7	147.0	150.3	153.3
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: P966177

CATALOG NUMBER: NAV-SB4B-740-U-SLR

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	3353.3	3353.3	3353.3	3353.3	3353.3	3353.3	3353.3	3353.3	3353.3	3353.3	3353.3
2.5°	3104.3	3116.5	3131.7	3146.7	3166.1	3185.7	3205.2	3224.5	3246.7	3268.9	3293.5
5°	2920.7	2937.6	2961.8	2985.9	3017.3	3048.6	3083.0	3117.5	3156.5	3195.6	3242.4
7.5°	2810.8	2830.8	2859.4	2888.1	2926.3	2964.6	3008.2	3051.5	3103.0	3154.4	3216.3
10°	2779.1	2801.5	2835.9	2870.1	2913.2	2956.3	3003.1	3049.9	3101.3	3152.8	3218.2
12.5°	2836.0	2865.0	2908.6	2952.4	2997.0	3041.6	3078.2	3115.0	3148.9	3183.1	3236.4
15°	2955.7	2999.7	3062.0	3124.2	3162.9	3201.7	3211.2	3220.8	3216.0	3211.4	3237.0
17.5°	3077.2	3141.9	3224.4	3307.0	3338.1	3369.4	3339.7	3309.7	3253.7	3197.6	3188.3
20°	3152.8	3232.3	3326.5	3420.8	3435.4	3449.7	3387.3	3324.9	3227.4	3130.0	3086.3
22.5°	3157.5	3239.4	3329.4	3419.5	3410.9	3402.2	3321.0	3239.7	3128.3	3017.2	2952.4
25°	3085.9	3158.7	3232.4	3306.2	3276.5	3246.7	3166.8	3086.9	2986.7	2886.8	2812.2
27.5°	2947.8	3004.3	3056.8	3109.4	3076.1	3042.9	2978.9	2914.7	2832.6	2750.4	2678.3
30°	2781.6	2822.1	2862.2	2902.3	2875.2	2848.2	2795.0	2741.8	2673.6	2605.4	2548.0
32.5°	2622.5	2654.9	2691.8	2728.5	2698.4	2668.5	2617.3	2566.4	2511.9	2457.4	2423.6
35°	2486.8	2516.6	2542.7	2569.0	2533.0	2496.9	2446.4	2395.9	2354.5	2312.9	2303.5
37.5°	2371.3	2398.7	2410.8	2422.9	2378.4	2333.9	2283.5	2233.2	2203.4	2173.6	2183.9
40°	2263.3	2286.6	2283.7	2280.7	2229.4	2178.2	2129.5	2081.0	2059.4	2037.9	2061.3
42.5°	2154.2	2173.9	2159.2	2144.4	2089.1	2033.7	1987.5	1941.5	1923.8	1906.3	1937.1
45°	2048.8	2066.5	2045.3	2024.1	1966.7	1909.3	1865.5	1821.7	1806.9	1792.2	1822.1
47.5°	1961.5	1973.8	1949.4	1925.0	1868.4	1811.7	1769.0	1726.2	1712.4	1698.5	1723.7
50°	1900.8	1901.6	1870.1	1838.7	1788.0	1737.4	1697.1	1656.7	1635.0	1613.4	1635.6
52.5°	1860.7	1853.9	1816.7	1779.6	1732.2	1685.0	1648.1	1611.0	1578.6	1546.0	1568.0
55°	1827.2	1817.9	1778.4	1739.0	1697.7	1656.3	1616.4	1576.6	1530.4	1484.3	1519.2
57.5°	1794.4	1784.9	1745.4	1705.6	1664.5	1623.6	1576.8	1529.9	1480.3	1430.6	1481.5
60°	1748.0	1737.8	1697.8	1657.9	1616.3	1574.7	1520.9	1467.2	1423.6	1380.1	1446.2
62.5°	1676.0	1666.0	1629.5	1593.0	1548.6	1504.2	1441.5	1378.7	1351.1	1323.4	1405.9
65°	1578.1	1567.9	1535.8	1503.6	1461.1	1418.6	1351.4	1284.1	1273.7	1262.9	1350.8
67.5°	1466.8	1456.8	1429.1	1401.3	1361.1	1320.8	1258.7	1196.7	1200.0	1203.4	1276.4
70°	1347.8	1338.2	1313.1	1288.0	1253.3	1218.5	1164.0	1109.5	1121.0	1132.6	1184.6
72.5°	1214.7	1203.4	1178.8	1154.3	1122.8	1091.4	1048.6	1005.6	1022.4	1039.5	1075.1
75°	1057.7	1045.9	1023.5	1001.1	972.6	944.2	912.4	880.4	896.8	913.0	940.4
77.5°	906.6	895.5	872.2	848.6	824.2	799.7	773.9	747.8	764.3	780.8	802.8
80°	731.6	717.0	699.3	681.3	660.7	640.1	618.7	597.1	610.9	624.7	643.3
82.5°	532.2	507.3	469.1	431.0	438.3	445.5	447.3	449.1	458.9	468.6	477.6
85°	323.0	292.1	256.4	220.7	240.7	260.6	270.0	279.2	290.2	301.1	310.8
87.5°	140.9	128.4	113.4	98.4	113.8	128.9	129.4	129.7	131.7	133.9	137.7
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: P966177

CATALOG NUMBER: NAV-SB4B-740-U-SLR

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	3353.3	3353.3	3353.3	3353.3	3353.3	3353.3	3353.3	3353.3	3353.3	3353.3	3353.3
2.5°	3318.2	3348.8	3376.1	3404.4	3432.7	3462.3	3492.0	3521.3	3550.8	3578.5	3606.1
5°	3288.9	3342.3	3396.3	3453.6	3510.8	3572.1	3633.5	3694.4	3755.4	3816.5	3877.6
7.5°	3278.4	3347.4	3421.2	3501.1	3581.0	3671.8	3762.5	3855.6	3948.7	4049.5	4150.4
10°	3283.5	3357.8	3448.7	3543.4	3637.9	3748.1	3858.3	3981.3	4104.4	4232.0	4359.5
12.5°	3289.9	3359.0	3454.7	3561.6	3668.5	3798.4	3928.4	4067.9	4207.4	4347.4	4487.6
15°	3262.6	3317.8	3423.8	3547.5	3671.3	3821.0	3970.6	4121.9	4273.2	4419.3	4565.3
17.5°	3178.9	3213.0	3337.6	3486.4	3635.3	3809.0	3982.7	4147.9	4312.9	4461.0	4609.1
20°	3042.5	3051.5	3196.6	3381.1	3565.6	3776.1	3986.6	4168.1	4349.5	4503.4	4657.4
22.5°	2887.7	2870.1	3035.1	3257.3	3479.6	3735.7	3991.8	4195.3	4398.7	4556.1	4713.4
25°	2737.6	2689.9	2859.1	3119.3	3379.6	3695.7	4012.1	4244.7	4477.2	4631.3	4785.4
27.5°	2606.3	2548.4	2702.4	2993.1	3283.8	3669.2	4054.5	4321.9	4589.1	4736.2	4883.2
30°	2490.9	2445.4	2574.8	2887.6	3200.4	3656.7	4112.7	4421.8	4731.1	4873.1	5015.1
32.5°	2389.8	2369.5	2473.7	2796.6	3119.3	3641.2	4162.8	4526.3	4889.7	5030.2	5170.8
35°	2294.3	2302.7	2389.5	2707.2	3024.9	3612.1	4199.6	4645.1	5090.7	5225.3	5359.9
37.5°	2194.1	2224.8	2300.7	2602.0	2903.1	3562.4	4221.6	4778.3	5335.1	5506.7	5678.4
40°	2084.5	2131.5	2200.4	2476.3	2752.3	3493.8	4235.3	4947.4	5659.3	5909.5	6159.6
42.5°	1968.1	2027.2	2090.7	2337.7	2584.8	3423.0	4261.4	5168.6	6075.8	6436.8	6797.9
45°	1852.3	1909.6	1973.8	2190.5	2407.2	3357.3	4307.4	5459.7	6612.0	7098.9	7586.0
47.5°	1749.0	1798.3	1881.2	2074.1	2267.0	3303.0	4338.9	5769.7	7200.6	7886.1	8571.7
50°	1657.9	1715.2	1824.3	1996.8	2169.2	3243.7	4318.3	6057.4	7796.7	8830.2	9863.6
52.5°	1590.2	1670.2	1795.7	1945.9	2096.1	3143.8	4191.5	6244.3	8297.0	9821.8	11346.5
55°	1554.1	1674.7	1791.4	1908.9	2026.3	2978.0	3929.7	6203.1	8476.4	10700.8	12925.4
57.5°	1532.5	1679.2	1782.2	1865.1	1948.1	2744.3	3540.5	5913.3	8286.4	11323.9	14361.4
60°	1512.2	1665.0	1733.0	1798.3	1863.4	2440.9	3018.4	5374.1	7729.7	11479.6	15229.2
62.5°	1488.5	1630.3	1638.7	1681.9	1725.3	2077.9	2430.4	4644.9	6859.4	10824.0	14788.5
65°	1438.6	1546.6	1545.6	1566.1	1586.6	1751.1	1915.7	3900.8	5886.2	9896.4	13906.5
67.5°	1349.5	1410.3	1413.1	1401.8	1390.3	1437.2	1483.9	3172.1	4860.2	8792.4	12724.7
70°	1236.6	1256.5	1256.5	1203.7	1150.6	1137.3	1124.0	2497.6	3871.1	7588.0	11304.7
72.5°	1110.7	1110.5	1097.9	1022.8	947.7	907.3	867.0	1909.4	2951.8	6282.1	9612.7
75°	967.9	972.8	914.6	830.5	746.3	709.8	673.2	1385.8	2098.4	4785.3	7472.1
77.5°	824.8	827.4	731.5	649.8	568.1	543.1	518.3	939.1	1359.9	3349.3	5338.7
80°	661.6	662.0	547.6	478.4	409.2	398.9	388.6	605.1	821.5	2157.8	3494.1
82.5°	486.7	481.2	383.5	332.5	281.6	279.5	277.7	372.2	466.8	1249.0	2031.1
85°	320.4	313.3	240.7	203.3	165.9	167.0	167.9	199.0	230.1	561.8	893.6
87.5°	141.6	132.5	102.3	87.0	71.8	72.7	73.6	82.5	91.3	184.0	276.6
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: P966177

CATALOG NUMBER: NAV-SB4B-740-U-SLR

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	3353.3	3353.3	3353.3	3353.3	3353.3	3353.3	3353.3	3353.3	3353.3	3353.3	3353.3
2.5°	3619.8	3633.5	3652.9	3672.4	3684.0	3695.5	3701.3	3707.1	3704.6	3707.1	3701.3
5°	3925.3	3973.2	4020.6	4068.0	4093.7	4119.5	4135.1	4150.7	4162.6	4150.7	4135.1
7.5°	4228.1	4305.7	4375.6	4445.4	4487.6	4529.6	4552.3	4575.0	4586.0	4575.0	4552.3
10°	4451.4	4543.2	4625.2	4707.2	4756.8	4806.2	4828.4	4850.4	4858.7	4850.4	4828.4
12.5°	4587.1	4686.6	4760.7	4834.5	4870.6	4906.6	4918.7	4930.8	4932.1	4930.8	4918.7
15°	4651.3	4737.1	4783.6	4830.2	4831.4	4832.8	4819.9	4807.0	4791.9	4807.0	4819.9
17.5°	4667.1	4725.1	4726.1	4726.9	4674.7	4622.6	4574.9	4527.0	4493.3	4527.0	4574.9
20°	4677.6	4697.9	4636.8	4575.7	4460.6	4345.6	4261.8	4178.1	4126.5	4178.1	4261.8
22.5°	4686.8	4660.4	4533.7	4407.1	4237.9	4068.6	3964.0	3859.2	3802.3	3859.2	3964.0
25°	4701.8	4618.1	4425.8	4233.7	4028.1	3822.6	3712.6	3602.7	3548.9	3602.7	3712.6
27.5°	4733.7	4584.0	4329.4	4074.9	3847.1	3619.4	3511.0	3402.8	3352.0	3402.8	3511.0
30°	4792.1	4569.2	4255.8	3942.4	3705.1	3467.8	3367.3	3266.8	3219.4	3266.8	3367.3
32.5°	4865.5	4560.2	4205.6	3850.9	3628.0	3404.9	3326.1	3247.1	3213.0	3247.1	3326.1
35°	4986.2	4612.7	4243.2	3873.8	3718.8	3564.0	3545.6	3527.2	3524.4	3527.2	3545.6
37.5°	5238.9	4799.3	4463.5	4127.6	4117.6	4107.6	4191.7	4275.9	4319.6	4275.9	4191.7
40°	5681.6	5203.6	4953.8	4704.0	4880.3	5056.6	5261.2	5465.8	5567.7	5465.8	5261.2
42.5°	6323.5	5849.3	5705.5	5561.5	5946.0	6330.5	6702.7	7074.8	7293.3	7074.8	6702.7
45°	7159.9	6733.7	6670.4	6606.7	7222.8	7838.9	8450.3	9061.9	9433.1	9061.9	8450.3
47.5°	8157.2	7742.6	7729.7	7716.8	8605.5	9493.9	10389.0	11284.1	11809.7	11284.1	10389.0
50°	9351.6	8839.7	8841.9	8844.0	9989.2	11134.5	12316.1	13497.7	14212.0	13497.7	12316.1
52.5°	10726.5	10106.7	10044.1	9981.2	11349.2	12717.2	14179.1	15641.0	16497.4	15641.0	14179.1
55°	12312.8	11700.4	11456.0	11211.7	12734.1	14256.5	15999.3	17742.2	18760.7	17742.2	15999.3
57.5°	14027.8	13694.2	13204.0	12714.1	14251.3	15788.6	17762.7	19736.7	20999.7	19736.7	17762.7
60°	15747.3	16265.5	15656.9	15048.2	16503.0	17957.8	20071.4	22185.0	23550.0	22185.0	20071.4
62.5°	16204.1	17619.6	17551.1	17482.3	18815.0	20147.8	22158.8	24169.5	25431.2	24169.5	22158.8
65°	15235.1	16563.6	16826.5	17089.2	18782.8	20476.6	22426.5	24376.3	25450.5	24376.3	22426.5
67.5°	13988.2	15251.8	15375.0	15498.2	17262.8	19027.4	20985.6	22943.9	23785.4	22943.9	20985.6
70°	12679.0	14053.6	14108.6	14163.9	15741.8	17319.8	19005.0	20690.2	21157.9	20690.2	19005.0
72.5°	11189.8	12767.1	12806.7	12846.2	14080.8	15315.4	16577.6	17839.7	17887.1	17839.7	16577.6
75°	9104.5	10736.9	10883.4	11029.9	11990.6	12951.1	13839.6	14728.0	14490.0	14728.0	13839.6
77.5°	6862.5	8386.3	8596.1	8805.9	9536.1	10266.3	10896.4	11526.6	11117.5	11526.6	10896.4
80°	4776.1	6058.0	6318.7	6579.4	7130.9	7682.1	8013.0	8343.9	7685.8	8343.9	8013.0
82.5°	2907.5	3784.1	4075.2	4366.6	4746.2	5125.7	5263.8	5401.7	4884.4	5401.7	5263.8
85°	1358.8	1824.0	2071.6	2319.4	2631.3	2943.1	3021.4	3099.8	2685.4	3099.8	3021.4
87.5°	433.0	589.4	727.5	865.7	1021.7	1177.6	1184.3	1190.8	999.8	1190.8	1184.3
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: P966177

CATALOG NUMBER: NAV-SB4B-740-U-SLR

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	3353.3	3353.3	3353.3	3353.3	3353.3	3353.3	3353.3
2.5°	3695.5	3684.0	3672.4	3652.9	3633.5	3619.8	3606.1
5°	4119.5	4093.7	4068.0	4020.6	3973.2	3925.3	3877.6
7.5°	4529.6	4487.6	4445.4	4375.6	4305.7	4228.1	4150.4
10°	4806.2	4756.8	4707.2	4625.2	4543.2	4451.4	4359.5
12.5°	4906.6	4870.6	4834.5	4760.7	4686.6	4587.1	4487.6
15°	4832.8	4831.4	4830.2	4783.6	4737.1	4651.3	4565.3
17.5°	4622.6	4674.7	4726.9	4726.1	4725.1	4667.1	4609.1
20°	4345.6	4460.6	4575.7	4636.8	4697.9	4677.6	4657.4
22.5°	4068.6	4237.9	4407.1	4533.7	4660.4	4686.8	4713.4
25°	3822.6	4028.1	4233.7	4425.8	4618.1	4701.8	4785.4
27.5°	3619.4	3847.1	4074.9	4329.4	4584.0	4733.7	4883.2
30°	3467.8	3705.1	3942.4	4255.8	4569.2	4792.1	5015.1
32.5°	3404.9	3628.0	3850.9	4205.6	4560.2	4865.5	5170.8
35°	3564.0	3718.8	3873.8	4243.2	4612.7	4986.2	5359.9
37.5°	4107.6	4117.6	4127.6	4463.5	4799.3	5238.9	5678.4
40°	5056.6	4880.3	4704.0	4953.8	5203.6	5681.6	6159.6
42.5°	6330.5	5946.0	5561.5	5705.5	5849.3	6323.5	6797.9
45°	7838.9	7222.8	6606.7	6670.4	6733.7	7159.9	7586.0
47.5°	9493.9	8605.5	7716.8	7729.7	7742.6	8157.2	8571.7
50°	11134.5	9989.2	8844.0	8841.9	8839.7	9351.6	9863.6
52.5°	12717.2	11349.2	9981.2	10044.1	10106.7	10726.5	11346.5
55°	14256.5	12734.1	11211.7	11456.0	11700.4	12312.8	12925.4
57.5°	15788.6	14251.3	12714.1	13204.0	13694.2	14027.8	14361.4
60°	17957.8	16503.0	15048.2	15656.9	16265.5	15747.3	15229.2
62.5°	20147.8	18815.0	17482.3	17551.1	17619.6	16204.1	14788.5
65°	20476.6	18782.8	17089.2	16826.5	16563.6	15235.1	13906.5
67.5°	19027.4	17262.8	15498.2	15375.0	15251.8	13988.2	12724.7
70°	17319.8	15741.8	14163.9	14108.6	14053.6	12679.0	11304.7
72.5°	15315.4	14080.8	12846.2	12806.7	12767.1	11189.8	9612.7
75°	12951.1	11990.6	11029.9	10883.4	10736.9	9104.5	7472.1
77.5°	10266.3	9536.1	8805.9	8596.1	8386.3	6862.5	5338.7
80°	7682.1	7130.9	6579.4	6318.7	6058.0	4776.1	3494.1
82.5°	5125.7	4746.2	4366.6	4075.2	3784.1	2907.5	2031.1
85°	2943.1	2631.3	2319.4	2071.6	1824.0	1358.8	893.6
87.5°	1177.6	1021.7	865.7	727.5	589.4	433.0	276.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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