

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: P967696

Luminaire Tested: **NAV-SB5A-730-U-SLR**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P967696
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-SB5A-730-U-SLR
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23142.4 lumens
Efficiency: N/A
Efficacy: 163.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

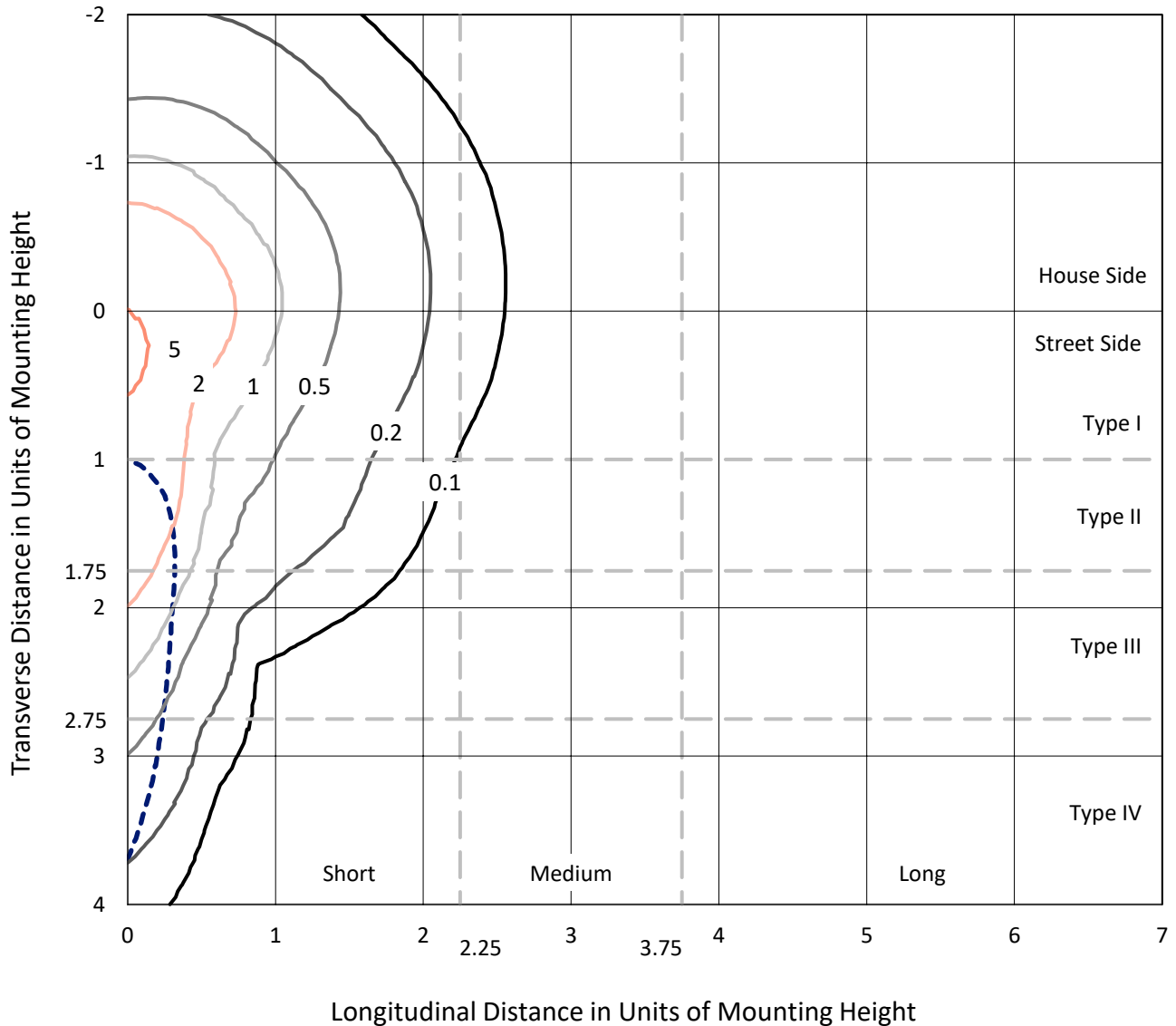
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

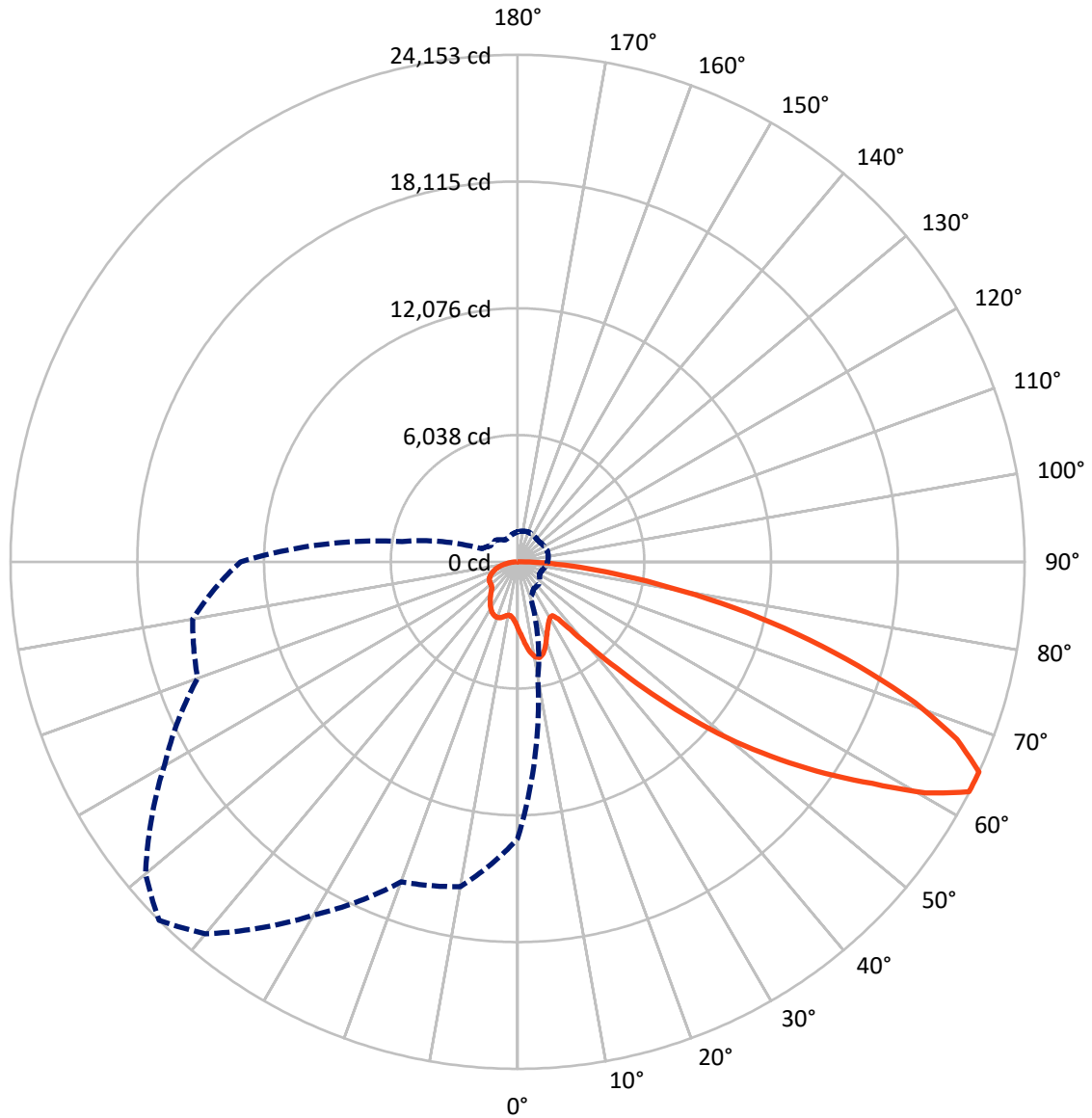
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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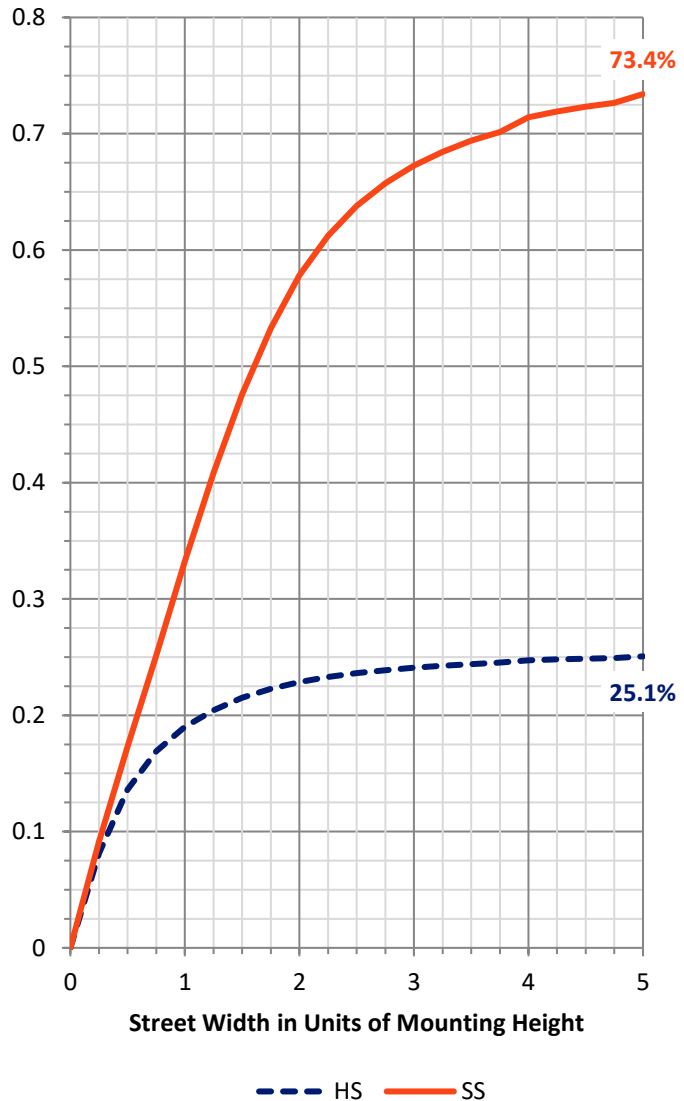
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5881.6	0.0	5881.6
	% Fixture	25.4	0.0	25.4
Street Side	Lumens	17260.8	0.0	17260.8
	% Fixture	74.6	0.0	74.6
Total	Lumens	23142.4	0.0	23142.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	315.7	1.4
10°-20°	991.0	4.3
20°-30°	1530.7	6.6
30°-40°	1939.8	8.4
40°-50°	2925.7	12.6
50°-60°	4727.0	20.4
60°-70°	5892.9	25.5
70°-80°	3864.3	16.7
80°-90°	955.3	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°	23142.4	100.0
0°-180°	23142.4	100.0

Coefficient of Utilization



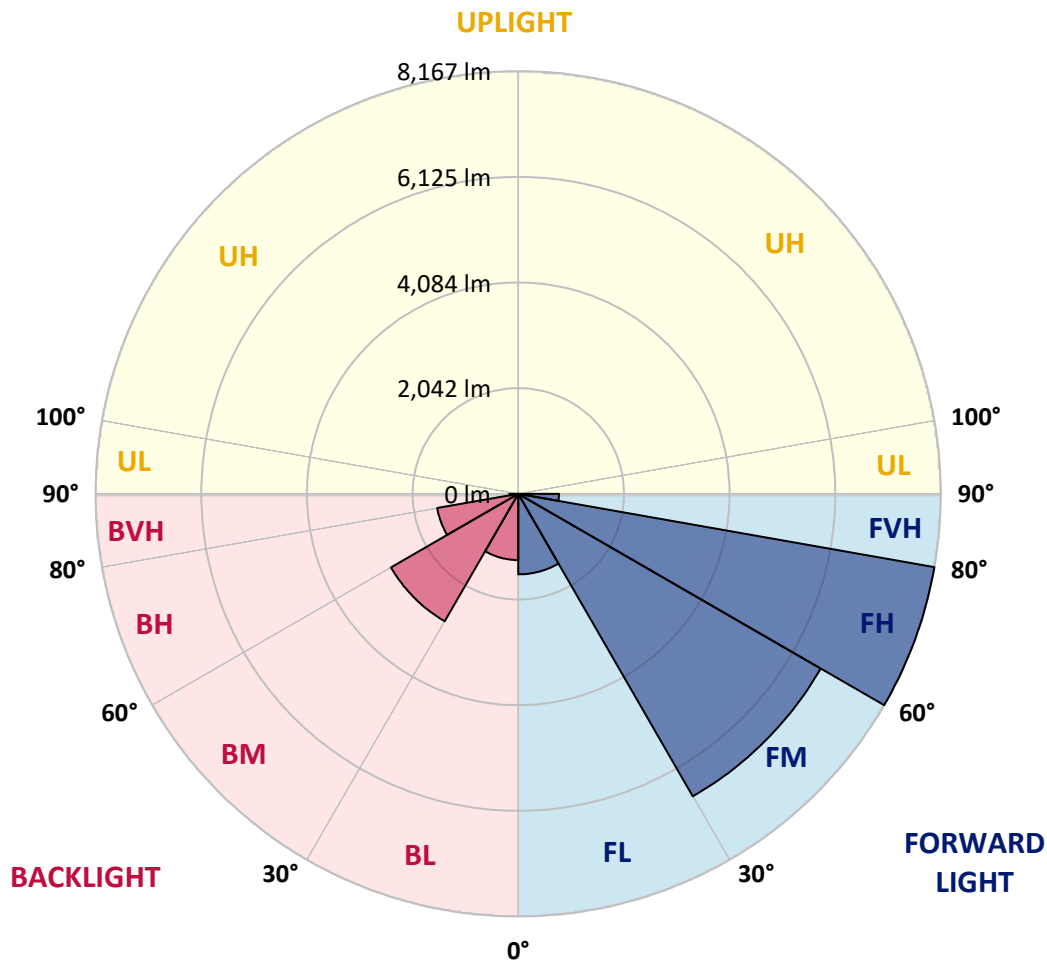
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1556.6	6.7			
FM (30°-60°)	6750.1	29.2			
FH (60°-80°)	8167.1	35.3			G4/12000
FVH (80°-90°)	787.0	3.4			G5
BL (0°-30°)	1280.8	5.5	B3/2500		
BM (30°-60°)	2842.4	12.3	B3/5000		
BH (60°-80°)	1590.1	6.9	B3/2500		G3/2500
BVH (80°-90°)	168.4	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°	3182.3	3182.3	3182.3	3182.3	3182.3	3182.3	3182.3	3182.3	3182.3	3182.3	3182.3
2.5°	3422.3	3396.0	3369.7	3341.8	3313.9	3285.8	3257.8	3230.9	3204.0	3178.0	3149.1
5°	3679.9	3621.9	3563.9	3506.0	3448.2	3390.0	3331.9	3277.5	3223.2	3171.9	3121.2
7.5°	3938.8	3843.0	3747.4	3659.0	3570.6	3484.5	3398.4	3322.6	3246.8	3176.8	3111.2
10°	4137.2	4016.2	3895.2	3778.4	3661.6	3557.1	3452.4	3362.8	3272.9	3186.5	3116.1
12.5°	4258.7	4125.7	3992.9	3860.5	3728.1	3604.8	3481.5	3379.9	3278.5	3187.7	3122.3
15°	4332.6	4194.0	4055.4	3911.8	3768.2	3626.1	3484.2	3366.7	3249.2	3148.7	3096.2
17.5°	4374.1	4233.6	4093.0	3936.3	3779.7	3614.8	3449.9	3308.7	3167.4	3049.2	3016.8
20°	4419.9	4273.8	4127.7	3955.5	3783.4	3583.5	3383.7	3208.7	3033.6	2895.9	2887.4
22.5°	4473.0	4323.8	4174.4	3981.4	3788.2	3545.2	3302.2	3091.3	2880.5	2723.7	2740.4
25°	4541.4	4395.1	4248.9	4028.2	3807.5	3507.3	3207.3	2960.3	2713.4	2552.8	2598.0
27.5°	4634.2	4494.7	4355.2	4101.5	3847.8	3482.0	3116.3	2840.5	2564.7	2418.5	2473.4
30°	4759.4	4624.6	4489.9	4196.5	3903.0	3470.2	3037.2	2740.3	2443.5	2320.8	2363.9
32.5°	4907.2	4773.6	4640.3	4295.5	3950.7	3455.6	2960.3	2654.0	2347.7	2248.7	2267.9
35°	5086.7	4959.0	4831.0	4408.3	3985.5	3428.0	2870.6	2569.2	2267.6	2185.2	2177.3
37.5°	5388.8	5226.0	5063.1	4534.7	4006.3	3380.8	2755.1	2469.2	2183.4	2111.4	2082.3
40°	5845.6	5608.2	5370.8	4695.1	4019.3	3315.7	2612.0	2350.1	2088.1	2022.8	1978.2
42.5°	6451.2	6108.6	5765.9	4905.0	4044.1	3248.4	2453.0	2218.6	1984.1	1923.9	1867.8
45°	7199.2	6737.0	6274.8	5181.3	4087.8	3186.1	2284.5	2078.9	1873.2	1812.2	1757.9
47.5°	8134.6	7484.1	6833.5	5475.5	4117.6	3134.6	2151.4	1968.3	1785.3	1706.5	1659.8
50°	9360.6	8380.0	7399.2	5748.6	4098.2	3078.4	2058.6	1894.9	1731.3	1627.8	1573.5
52.5°	10768.0	9320.9	7873.9	5925.9	3977.8	2983.5	1989.2	1846.6	1704.1	1585.1	1509.1
55°	12266.4	10155.2	8044.2	5886.9	3729.4	2826.2	1923.0	1811.6	1700.1	1589.3	1474.9
57.5°	13629.1	10746.5	7863.9	5611.9	3360.0	2604.4	1848.8	1770.1	1691.2	1593.6	1454.4
60°	14452.8	10894.2	7335.6	5100.1	2864.6	2316.5	1768.4	1706.5	1644.6	1580.1	1435.1
62.5°	14034.5	10272.1	6509.7	4408.1	2306.5	1971.9	1637.3	1596.1	1555.1	1547.1	1412.7
65°	13197.5	9391.8	5586.1	3702.0	1818.0	1661.8	1505.6	1486.2	1466.9	1467.8	1365.2
67.5°	12075.8	8344.1	4612.5	3010.3	1408.2	1363.9	1319.5	1330.3	1341.0	1338.3	1280.7
70°	10728.3	7201.0	3673.8	2370.2	1066.6	1079.3	1091.9	1142.3	1192.5	1192.5	1173.5
72.5°	9122.5	5961.8	2801.3	1812.1	822.8	861.0	899.3	970.7	1041.9	1053.8	1054.1
75°	7091.2	4541.3	1991.5	1315.2	638.9	673.6	708.3	788.1	868.0	923.2	918.5
77.5°	5066.5	3178.5	1290.5	891.2	491.9	515.5	539.2	616.6	694.2	785.2	782.8
80°	3316.0	2047.8	779.7	574.2	368.8	378.5	388.4	454.0	519.6	628.3	627.9
82.5°	1927.6	1185.2	443.0	353.1	263.5	265.3	267.2	315.5	363.9	456.7	461.9
85°	848.1	533.1	218.3	188.8	159.4	158.5	157.5	192.9	228.4	297.4	304.0
87.5°	262.5	174.7	86.7	78.3	69.8	69.0	68.2	82.5	97.1	125.8	134.3
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°	3182.3	3182.3	3182.3	3182.3	3182.3	3182.3	3182.3	3182.3	3182.3	3182.3	3182.3
2.5°	3125.6	3102.3	3081.1	3060.1	3041.7	3023.3	3004.7	2986.3	2972.0	2957.6	2946.0
5°	3077.0	3032.7	2995.6	2958.6	2925.9	2893.2	2863.4	2833.6	2810.9	2787.9	2771.9
7.5°	3052.3	2993.6	2944.8	2895.9	2854.7	2813.5	2777.1	2740.8	2713.6	2686.5	2667.5
10°	3054.1	2992.1	2943.2	2894.3	2850.0	2805.5	2764.6	2723.7	2691.2	2658.6	2637.4
12.5°	3071.4	3020.9	2988.4	2956.1	2921.2	2886.5	2844.2	2801.9	2760.4	2718.9	2691.3
15°	3071.9	3047.7	3052.1	3056.5	3047.4	3038.4	3001.7	2964.9	2905.8	2846.7	2804.9
17.5°	3025.7	3034.5	3087.8	3141.0	3169.3	3197.6	3167.9	3138.3	3060.0	2981.7	2920.2
20°	2928.9	2970.4	3062.9	3155.5	3214.6	3273.8	3260.2	3246.4	3156.9	3067.5	2992.1
22.5°	2801.9	2863.3	2968.8	3074.6	3151.7	3228.6	3237.0	3245.1	3159.7	3074.2	2996.6
25°	2668.8	2739.6	2834.5	2929.6	3005.3	3081.1	3109.5	3137.7	3067.6	2997.6	2928.5
27.5°	2541.8	2610.2	2688.2	2766.2	2827.0	2887.7	2919.3	2950.9	2901.0	2851.1	2797.5
30°	2418.1	2472.6	2537.3	2602.0	2652.4	2703.0	2728.7	2754.3	2716.2	2678.2	2639.9
32.5°	2300.0	2332.1	2383.7	2435.6	2483.9	2532.4	2560.9	2589.5	2554.5	2519.4	2488.8
35°	2186.1	2195.0	2234.4	2273.8	2321.6	2369.6	2403.8	2438.0	2413.1	2388.4	2360.0
37.5°	2072.5	2062.7	2091.1	2119.3	2167.1	2214.9	2257.2	2299.4	2287.9	2276.4	2250.4
40°	1956.1	1934.1	1954.5	1974.9	2021.0	2067.1	2115.7	2164.5	2167.3	2169.9	2147.9
42.5°	1838.4	1809.1	1825.7	1842.4	1886.2	1930.0	1982.6	2035.0	2049.1	2063.1	2044.5
45°	1729.3	1700.8	1714.7	1728.9	1770.4	1811.9	1866.4	1920.8	1941.0	1961.1	1944.3
47.5°	1635.8	1611.9	1625.1	1638.2	1678.8	1719.3	1773.0	1826.9	1850.0	1873.2	1861.5
50°	1552.2	1531.0	1551.5	1572.2	1610.6	1648.8	1696.9	1745.0	1774.8	1804.6	1803.9
52.5°	1488.1	1467.2	1498.1	1528.9	1564.0	1599.1	1643.9	1688.8	1724.2	1759.4	1765.8
55°	1441.7	1408.6	1452.4	1496.1	1534.0	1571.8	1611.2	1650.4	1687.8	1725.2	1734.0
57.5°	1406.0	1357.6	1404.8	1451.9	1496.4	1540.9	1579.6	1618.6	1656.4	1693.9	1702.8
60°	1372.5	1309.6	1351.1	1392.4	1443.4	1494.4	1533.9	1573.5	1611.3	1649.1	1659.0
62.5°	1334.2	1255.9	1282.2	1308.4	1368.0	1427.5	1469.6	1511.8	1546.4	1581.2	1590.5
65°	1282.0	1198.5	1208.7	1218.7	1282.5	1346.3	1386.6	1426.9	1457.4	1488.0	1497.6
67.5°	1211.3	1142.1	1138.9	1135.7	1194.5	1253.5	1291.7	1329.8	1356.2	1382.6	1391.9
70°	1124.2	1074.8	1063.8	1052.9	1104.6	1156.4	1189.4	1222.3	1246.2	1270.0	1279.0
72.5°	1020.3	986.5	970.4	954.3	995.1	1035.8	1065.6	1095.3	1118.7	1142.1	1152.7
75°	892.6	866.4	851.1	835.5	865.8	896.1	923.0	950.1	971.3	992.5	1003.8
77.5°	761.9	741.0	725.4	709.7	734.4	758.9	782.2	805.3	827.7	849.9	860.4
80°	610.5	592.9	579.8	566.6	587.1	607.5	627.1	646.6	663.6	680.4	694.3
82.5°	453.3	444.7	435.4	426.2	424.5	422.7	415.9	409.1	445.3	481.3	505.0
85°	294.9	285.8	275.4	265.0	256.1	247.2	228.4	209.4	243.2	277.2	306.5
87.5°	130.7	127.0	125.0	123.1	122.7	122.4	107.9	93.4	107.6	121.9	133.8
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	3182.3	3182.3	3182.3	3182.3	3182.3	3182.3	3182.3	3182.3	3182.3	3182.3	3182.3
2.5°	2934.4	2925.4	2916.3	2908.0	2899.6	2889.2	2899.6	2908.0	2916.3	2925.4	2934.4
5°	2755.8	2744.5	2733.2	2724.4	2715.8	2707.2	2715.8	2724.4	2733.2	2744.5	2755.8
7.5°	2648.4	2635.4	2622.4	2614.6	2606.9	2601.0	2606.9	2614.6	2622.4	2635.4	2648.4
10°	2615.9	2603.6	2591.3	2584.6	2578.1	2575.4	2578.1	2584.6	2591.3	2603.6	2615.9
12.5°	2663.9	2650.1	2636.4	2630.9	2625.2	2624.2	2625.2	2630.9	2636.4	2650.1	2663.9
15°	2763.2	2744.0	2725.0	2717.7	2710.3	2709.7	2710.3	2717.7	2725.0	2744.0	2763.2
17.5°	2858.7	2830.3	2801.9	2792.6	2783.2	2781.7	2783.2	2792.6	2801.9	2830.3	2858.7
20°	2916.6	2880.5	2844.1	2832.4	2820.8	2817.2	2820.8	2832.4	2844.1	2880.5	2916.6
22.5°	2918.8	2880.6	2842.2	2829.4	2816.6	2811.1	2816.6	2829.4	2842.2	2880.6	2918.8
25°	2859.6	2826.4	2793.3	2781.2	2769.3	2762.2	2769.3	2781.2	2793.3	2826.4	2859.6
27.5°	2743.9	2721.7	2699.3	2693.8	2688.4	2686.5	2688.4	2693.8	2699.3	2721.7	2743.9
30°	2601.2	2589.9	2578.4	2578.4	2578.4	2580.2	2578.4	2578.4	2578.4	2589.9	2601.2
32.5°	2458.2	2450.7	2443.3	2444.2	2445.3	2447.2	2445.3	2444.2	2443.3	2450.7	2458.2
35°	2331.8	2320.4	2309.2	2306.8	2304.3	2303.1	2304.3	2306.8	2309.2	2320.4	2331.8
37.5°	2224.4	2203.6	2183.1	2172.3	2161.4	2155.3	2161.4	2172.3	2183.1	2203.6	2224.4
40°	2125.7	2095.7	2065.9	2045.7	2025.6	2013.6	2025.6	2045.7	2065.9	2095.7	2125.7
42.5°	2025.9	1988.6	1951.4	1922.0	1892.6	1873.2	1892.6	1922.0	1951.4	1988.6	2025.9
45°	1927.6	1885.0	1842.4	1807.9	1773.4	1751.1	1773.4	1807.9	1842.4	1885.0	1927.6
47.5°	1849.8	1811.9	1774.1	1742.1	1710.2	1688.8	1710.2	1742.1	1774.1	1811.9	1849.8
50°	1803.4	1773.0	1742.8	1713.3	1683.7	1663.2	1683.7	1713.3	1742.8	1773.0	1803.4
52.5°	1772.1	1747.4	1722.8	1696.3	1669.9	1651.0	1669.9	1696.3	1722.8	1747.4	1772.1
55°	1742.8	1721.3	1699.9	1676.6	1653.4	1636.3	1653.4	1676.6	1699.9	1721.3	1742.8
57.5°	1711.7	1690.0	1668.3	1645.3	1622.3	1604.5	1622.3	1645.3	1668.3	1690.0	1711.7
60°	1668.7	1647.5	1626.3	1602.6	1578.9	1560.7	1578.9	1602.6	1626.3	1647.5	1668.7
62.5°	1599.9	1580.8	1561.6	1536.7	1511.8	1489.8	1511.8	1536.7	1561.6	1580.8	1599.9
65°	1507.2	1488.7	1470.3	1446.1	1422.0	1403.1	1422.0	1446.1	1470.3	1488.7	1507.2
67.5°	1401.3	1384.3	1367.5	1345.0	1322.5	1305.4	1322.5	1345.0	1367.5	1384.3	1401.3
70°	1288.0	1274.3	1260.4	1238.9	1217.5	1197.9	1217.5	1238.9	1260.4	1274.3	1288.0
72.5°	1163.5	1152.0	1140.5	1120.0	1099.6	1080.7	1099.6	1120.0	1140.5	1152.0	1163.5
75°	1015.1	1009.4	1003.8	986.6	969.3	951.3	969.3	986.6	1003.8	1009.4	1015.1
77.5°	870.9	863.0	855.1	837.7	820.4	806.0	820.4	837.7	855.1	863.0	870.9
80°	708.3	704.8	701.5	678.2	654.8	627.7	654.8	678.2	701.5	704.8	708.3
82.5°	528.8	527.3	525.7	506.0	486.3	468.9	486.3	506.0	525.7	527.3	528.8
85°	335.8	333.3	331.0	315.5	300.1	284.5	300.1	315.5	331.0	333.3	335.8
87.5°	145.5	142.7	139.5	131.6	123.6	116.0	123.6	131.6	139.5	142.7	145.5
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: P967696
 CATALOG NUMBER: NAV-SB5A-730-U-SLR

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	3182.3	3182.3	3182.3	3182.3	3182.3	3182.3	3182.3	3182.3	3182.3	3182.3	3182.3
2.5°	2946.0	2957.6	2972.0	2986.3	3004.7	3023.3	3041.7	3060.1	3081.1	3102.3	3125.6
5°	2771.9	2787.9	2810.9	2833.6	2863.4	2893.2	2925.9	2958.6	2995.6	3032.7	3077.0
7.5°	2667.5	2686.5	2713.6	2740.8	2777.1	2813.5	2854.7	2895.9	2944.8	2993.6	3052.3
10°	2637.4	2658.6	2691.2	2723.7	2764.6	2805.5	2850.0	2894.3	2943.2	2992.1	3054.1
12.5°	2691.3	2718.9	2760.4	2801.9	2844.2	2886.5	2921.2	2956.1	2988.4	3020.9	3071.4
15°	2804.9	2846.7	2905.8	2964.9	3001.7	3038.4	3047.4	3056.5	3052.1	3047.7	3071.9
17.5°	2920.2	2981.7	3060.0	3138.3	3167.9	3197.6	3169.3	3141.0	3087.8	3034.5	3025.7
20°	2992.1	3067.5	3156.9	3246.4	3260.2	3273.8	3214.6	3155.5	3062.9	2970.4	2928.9
22.5°	2996.6	3074.2	3159.7	3245.1	3237.0	3228.6	3151.7	3074.6	2968.8	2863.3	2801.9
25°	2928.5	2997.6	3067.6	3137.7	3109.5	3081.1	3005.3	2929.6	2834.5	2739.6	2668.8
27.5°	2797.5	2851.1	2901.0	2950.9	2919.3	2887.7	2827.0	2766.2	2688.2	2610.2	2541.8
30°	2639.9	2678.2	2716.2	2754.3	2728.7	2703.0	2652.4	2602.0	2537.3	2472.6	2418.1
32.5°	2488.8	2519.4	2554.5	2589.5	2560.9	2532.4	2483.9	2435.6	2383.7	2332.1	2300.0
35°	2360.0	2388.4	2413.1	2438.0	2403.8	2369.6	2321.6	2273.8	2234.4	2195.0	2186.1
37.5°	2250.4	2276.4	2287.9	2299.4	2257.2	2214.9	2167.1	2119.3	2091.1	2062.7	2072.5
40°	2147.9	2169.9	2167.3	2164.5	2115.7	2067.1	2021.0	1974.9	1954.5	1934.1	1956.1
42.5°	2044.5	2063.1	2049.1	2035.0	1982.6	1930.0	1886.2	1842.4	1825.7	1809.1	1838.4
45°	1944.3	1961.1	1941.0	1920.8	1866.4	1811.9	1770.4	1728.9	1714.7	1700.8	1729.3
47.5°	1861.5	1873.2	1850.0	1826.9	1773.0	1719.3	1678.8	1638.2	1625.1	1611.9	1635.8
50°	1803.9	1804.6	1774.8	1745.0	1696.9	1648.8	1610.6	1572.2	1551.5	1531.0	1552.2
52.5°	1765.8	1759.4	1724.2	1688.8	1643.9	1599.1	1564.0	1528.9	1498.1	1467.2	1488.1
55°	1734.0	1725.2	1687.8	1650.4	1611.2	1571.8	1534.0	1496.1	1452.4	1408.6	1441.7
57.5°	1702.8	1693.9	1656.4	1618.6	1579.6	1540.9	1496.4	1451.9	1404.8	1357.6	1406.0
60°	1659.0	1649.1	1611.3	1573.5	1533.9	1494.4	1443.4	1392.4	1351.1	1309.6	1372.5
62.5°	1590.5	1581.2	1546.4	1511.8	1469.6	1427.5	1368.0	1308.4	1282.2	1255.9	1334.2
65°	1497.6	1488.0	1457.4	1426.9	1386.6	1346.3	1282.5	1218.7	1208.7	1198.5	1282.0
67.5°	1391.9	1382.6	1356.2	1329.8	1291.7	1253.5	1194.5	1135.7	1138.9	1142.1	1211.3
70°	1279.0	1270.0	1246.2	1222.3	1189.4	1156.4	1104.6	1052.9	1063.8	1074.8	1124.2
72.5°	1152.7	1142.1	1118.7	1095.3	1065.6	1035.8	995.1	954.3	970.4	986.5	1020.3
75°	1003.8	992.5	971.3	950.1	923.0	896.1	865.8	835.5	851.1	866.4	892.6
77.5°	860.4	849.9	827.7	805.3	782.2	758.9	734.4	709.7	725.4	741.0	761.9
80°	694.3	680.4	663.6	646.6	627.1	607.5	587.1	566.6	579.8	592.9	610.5
82.5°	505.0	481.3	445.3	409.1	415.9	422.7	424.5	426.2	435.4	444.7	453.3
85°	306.5	277.2	243.2	209.4	228.4	247.2	256.1	265.0	275.4	285.8	294.9
87.5°	133.8	121.9	107.6	93.4	107.9	122.4	122.7	123.1	125.0	127.0	130.7
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: P967696
 CATALOG NUMBER: NAV-SB5A-730-U-SLR

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	3182.3	3182.3	3182.3	3182.3	3182.3	3182.3	3182.3	3182.3	3182.3	3182.3	3182.3
2.5°	3149.1	3178.0	3204.0	3230.9	3257.8	3285.8	3313.9	3341.8	3369.7	3396.0	3422.3
5°	3121.2	3171.9	3223.2	3277.5	3331.9	3390.0	3448.2	3506.0	3563.9	3621.9	3679.9
7.5°	3111.2	3176.8	3246.8	3322.6	3398.4	3484.5	3570.6	3659.0	3747.4	3843.0	3938.8
10°	3116.1	3186.5	3272.9	3362.8	3452.4	3557.1	3661.6	3778.4	3895.2	4016.2	4137.2
12.5°	3122.3	3187.7	3278.5	3379.9	3481.5	3604.8	3728.1	3860.5	3992.9	4125.7	4258.7
15°	3096.2	3148.7	3249.2	3366.7	3484.2	3626.1	3768.2	3911.8	4055.4	4194.0	4332.6
17.5°	3016.8	3049.2	3167.4	3308.7	3449.9	3614.8	3779.7	3936.3	4093.0	4233.6	4374.1
20°	2887.4	2895.9	3033.6	3208.7	3383.7	3583.5	3783.4	3955.5	4127.7	4273.8	4419.9
22.5°	2740.4	2723.7	2880.5	3091.3	3302.2	3545.2	3788.2	3981.4	4174.4	4323.8	4473.0
25°	2598.0	2552.8	2713.4	2960.3	3207.3	3507.3	3807.5	4028.2	4248.9	4395.1	4541.4
27.5°	2473.4	2418.5	2564.7	2840.5	3116.3	3482.0	3847.8	4101.5	4355.2	4494.7	4634.2
30°	2363.9	2320.8	2443.5	2740.3	3037.2	3470.2	3903.0	4196.5	4489.9	4624.6	4759.4
32.5°	2267.9	2248.7	2347.7	2654.0	2960.3	3455.6	3950.7	4295.5	4640.3	4773.6	4907.2
35°	2177.3	2185.2	2267.6	2569.2	2870.6	3428.0	3985.5	4408.3	4831.0	4959.0	5086.7
37.5°	2082.3	2111.4	2183.4	2469.2	2755.1	3380.8	4006.3	4534.7	5063.1	5226.0	5388.8
40°	1978.2	2022.8	2088.1	2350.1	2612.0	3315.7	4019.3	4695.1	5370.8	5608.2	5845.6
42.5°	1867.8	1923.9	1984.1	2218.6	2453.0	3248.4	4044.1	4905.0	5765.9	6108.6	6451.2
45°	1757.9	1812.2	1873.2	2078.9	2284.5	3186.1	4087.8	5181.3	6274.8	6737.0	7199.2
47.5°	1659.8	1706.5	1785.3	1968.3	2151.4	3134.6	4117.6	5475.5	6833.5	7484.1	8134.6
50°	1573.5	1627.8	1731.3	1894.9	2058.6	3078.4	4098.2	5748.6	7399.2	8380.0	9360.6
52.5°	1509.1	1585.1	1704.1	1846.6	1989.2	2983.5	3977.8	5925.9	7873.9	9320.9	10768.0
55°	1474.9	1589.3	1700.1	1811.6	1923.0	2826.2	3729.4	5886.9	8044.2	10155.2	12266.4
57.5°	1454.4	1593.6	1691.2	1770.1	1848.8	2604.4	3360.0	5611.9	7863.9	10746.5	13629.1
60°	1435.1	1580.1	1644.6	1706.5	1768.4	2316.5	2864.6	5100.1	7335.6	10894.2	14452.8
62.5°	1412.7	1547.1	1555.1	1596.1	1637.3	1971.9	2306.5	4408.1	6509.7	10272.1	14034.5
65°	1365.2	1467.8	1466.9	1486.2	1505.6	1661.8	1818.0	3702.0	5586.1	9391.8	13197.5
67.5°	1280.7	1338.3	1341.0	1330.3	1319.5	1363.9	1408.2	3010.3	4612.5	8344.1	12075.8
70°	1173.5	1192.5	1192.5	1142.3	1091.9	1079.3	1066.6	2370.2	3673.8	7201.0	10728.3
72.5°	1054.1	1053.8	1041.9	970.7	899.3	861.0	822.8	1812.1	2801.3	5961.8	9122.5
75°	918.5	923.2	868.0	788.1	708.3	673.6	638.9	1315.2	1991.5	4541.3	7091.2
77.5°	782.8	785.2	694.2	616.6	539.2	515.5	491.9	891.2	1290.5	3178.5	5066.5
80°	627.9	628.3	519.6	454.0	388.4	378.5	368.8	574.2	779.7	2047.8	3316.0
82.5°	461.9	456.7	363.9	315.5	267.2	265.3	263.5	353.1	443.0	1185.2	1927.6
85°	304.0	297.4	228.4	192.9	157.5	158.5	159.4	188.8	218.3	533.1	848.1
87.5°	134.3	125.8	97.1	82.5	68.2	69.0	69.8	78.3	86.7	174.7	262.5
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-SB5A-730-U-SLR

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	3182.3	3182.3	3182.3	3182.3	3182.3	3182.3	3182.3	3182.3	3182.3	3182.3	3182.3
2.5°	3435.2	3448.2	3466.7	3485.1	3496.1	3507.1	3512.6	3518.1	3515.6	3518.1	3512.6
5°	3725.2	3770.7	3815.6	3860.7	3885.1	3909.5	3924.2	3939.2	3950.3	3939.2	3924.2
7.5°	4012.6	4086.2	4152.5	4218.8	4258.7	4298.6	4320.3	4341.8	4352.2	4341.8	4320.3
10°	4224.4	4311.6	4389.4	4467.2	4514.3	4561.1	4582.2	4603.1	4611.1	4603.1	4582.2
12.5°	4353.3	4447.7	4518.0	4588.1	4622.2	4656.5	4668.0	4679.4	4680.7	4679.4	4668.0
15°	4414.2	4495.6	4539.7	4583.9	4585.1	4586.4	4574.2	4562.0	4547.5	4562.0	4574.2
17.5°	4429.2	4484.3	4485.1	4485.8	4436.4	4386.9	4341.6	4296.2	4264.2	4296.2	4341.6
20°	4439.1	4458.3	4400.3	4342.4	4233.1	4124.0	4044.5	3965.0	3916.2	3965.0	4044.5
22.5°	4447.9	4422.7	4302.5	4182.4	4021.8	3861.3	3761.9	3662.4	3608.5	3662.4	3761.9
25°	4462.0	4382.7	4200.2	4017.8	3822.7	3627.8	3523.2	3419.0	3367.9	3419.0	3523.2
27.5°	4492.4	4350.3	4108.6	3867.1	3650.9	3434.8	3332.0	3229.3	3181.1	3229.3	3332.0
30°	4547.7	4336.3	4038.8	3741.4	3516.2	3291.0	3195.6	3100.2	3055.3	3100.2	3195.6
32.5°	4617.3	4327.8	3991.1	3654.6	3443.0	3231.4	3156.5	3081.6	3049.2	3081.6	3156.5
35°	4732.0	4377.6	4026.8	3676.3	3529.2	3382.3	3364.9	3347.3	3344.7	3347.3	3364.9
37.5°	4971.8	4554.6	4235.9	3917.1	3907.6	3898.1	3978.0	4057.9	4099.4	4057.9	3978.0
40°	5391.9	4938.2	4701.3	4464.3	4631.6	4798.8	4993.0	5187.1	5283.9	5187.1	4993.0
42.5°	6001.2	5551.1	5414.6	5278.0	5642.8	6007.7	6360.9	6714.1	6921.4	6714.1	6360.9
45°	6794.9	6390.5	6330.3	6269.9	6854.5	7439.1	8019.5	8599.9	8952.1	8599.9	8019.5
47.5°	7741.3	7347.8	7335.6	7323.4	8166.7	9009.9	9859.4	10708.8	11207.7	10708.8	9859.4
50°	8874.8	8389.0	8391.1	8393.1	9479.9	10566.7	11688.1	12809.5	13487.5	12809.5	11688.1
52.5°	10179.7	9591.4	9532.0	9472.3	10770.6	12068.8	13456.2	14843.5	15656.3	14843.5	13456.2
55°	11685.1	11103.8	10871.9	10640.0	12084.9	13529.6	15183.6	16837.7	17804.1	16837.7	15183.6
57.5°	13312.6	12996.0	12530.8	12065.8	13524.7	14983.7	16857.0	18730.4	19929.0	18730.4	16857.0
60°	14944.4	15436.2	14858.6	14281.0	15661.6	17042.2	19048.1	21053.9	22349.3	21053.9	19048.1
62.5°	15377.9	16721.3	16656.2	16591.0	17855.7	19120.6	21029.0	22937.2	24134.5	22937.2	21029.0
65°	14458.2	15719.1	15968.6	16218.0	17825.2	19432.6	21283.1	23133.5	24152.9	23133.5	21283.1
67.5°	13275.0	14474.1	14591.2	14708.0	16382.7	18057.2	19915.6	21774.1	22572.8	21774.1	19915.6
70°	12032.6	13337.0	13389.3	13441.6	14939.3	16436.8	18036.1	19635.3	20079.1	19635.3	18036.1
72.5°	10619.3	12116.1	12153.7	12191.2	13362.9	14534.6	15732.4	16930.1	16975.0	16930.1	15732.4
75°	8640.2	10189.4	10328.5	10467.6	11379.1	12290.8	13133.9	13977.1	13751.2	13977.1	13133.9
77.5°	6512.5	7958.8	8157.8	8356.8	9049.8	9742.8	10340.8	10939.0	10550.6	10939.0	10340.8
80°	4532.7	5749.1	5996.6	6243.9	6767.3	7290.4	7604.5	7918.4	7293.9	7918.4	7604.5
82.5°	2759.3	3591.1	3867.4	4144.0	4504.2	4864.4	4995.4	5126.3	4635.5	5126.3	4995.4
85°	1289.6	1730.9	1966.1	2201.1	2497.1	2793.0	2867.3	2941.7	2548.6	2941.7	2867.3
87.5°	410.9	559.2	690.4	821.5	969.5	1117.6	1123.9	1130.2	948.8	1130.2	1123.9
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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 CATALOG NUMBER: NAV-SB5A-730-U-SLR

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	3182.3	3182.3	3182.3	3182.3	3182.3	3182.3	3182.3
2.5°	3507.1	3496.1	3485.1	3466.7	3448.2	3435.2	3422.3
5°	3909.5	3885.1	3860.7	3815.6	3770.7	3725.2	3679.9
7.5°	4298.6	4258.7	4218.8	4152.5	4086.2	4012.6	3938.8
10°	4561.1	4514.3	4467.2	4389.4	4311.6	4224.4	4137.2
12.5°	4656.5	4622.2	4588.1	4518.0	4447.7	4353.3	4258.7
15°	4586.4	4585.1	4583.9	4539.7	4495.6	4414.2	4332.6
17.5°	4386.9	4436.4	4485.8	4485.1	4484.3	4429.2	4374.1
20°	4124.0	4233.1	4342.4	4400.3	4458.3	4439.1	4419.9
22.5°	3861.3	4021.8	4182.4	4302.5	4422.7	4447.9	4473.0
25°	3627.8	3822.7	4017.8	4200.2	4382.7	4462.0	4541.4
27.5°	3434.8	3650.9	3867.1	4108.6	4350.3	4492.4	4634.2
30°	3291.0	3516.2	3741.4	4038.8	4336.3	4547.7	4759.4
32.5°	3231.4	3443.0	3654.6	3991.1	4327.8	4617.3	4907.2
35°	3382.3	3529.2	3676.3	4026.8	4377.6	4732.0	5086.7
37.5°	3898.1	3907.6	3917.1	4235.9	4554.6	4971.8	5388.8
40°	4798.8	4631.6	4464.3	4701.3	4938.2	5391.9	5845.6
42.5°	6007.7	5642.8	5278.0	5414.6	5551.1	6001.2	6451.2
45°	7439.1	6854.5	6269.9	6330.3	6390.5	6794.9	7199.2
47.5°	9009.9	8166.7	7323.4	7335.6	7347.8	7741.3	8134.6
50°	10566.7	9479.9	8393.1	8391.1	8389.0	8874.8	9360.6
52.5°	12068.8	10770.6	9472.3	9532.0	9591.4	10179.7	10768.0
55°	13529.6	12084.9	10640.0	10871.9	11103.8	11685.1	12266.4
57.5°	14983.7	13524.7	12065.8	12530.8	12996.0	13312.6	13629.1
60°	17042.2	15661.6	14281.0	14858.6	15436.2	14944.4	14452.8
62.5°	19120.6	17855.7	16591.0	16656.2	16721.3	15377.9	14034.5
65°	19432.6	17825.2	16218.0	15968.6	15719.1	14458.2	13197.5
67.5°	18057.2	16382.7	14708.0	14591.2	14474.1	13275.0	12075.8
70°	16436.8	14939.3	13441.6	13389.3	13337.0	12032.6	10728.3
72.5°	14534.6	13362.9	12191.2	12153.7	12116.1	10619.3	9122.5
75°	12290.8	11379.1	10467.6	10328.5	10189.4	8640.2	7091.2
77.5°	9742.8	9049.8	8356.8	8157.8	7958.8	6512.5	5066.5
80°	7290.4	6767.3	6243.9	5996.6	5749.1	4532.7	3316.0
82.5°	4864.4	4504.2	4144.0	3867.4	3591.1	2759.3	1927.6
85°	2793.0	2497.1	2201.1	1966.1	1730.9	1289.6	848.1
87.5°	1117.6	969.5	821.5	690.4	559.2	410.9	262.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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