

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: P967880

Luminaire Tested: **NAV-SB5A-830-U-SLL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P967880
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-830-U-SLL
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20795.2 lumens
Efficiency: N/A
Efficacy: 146.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

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



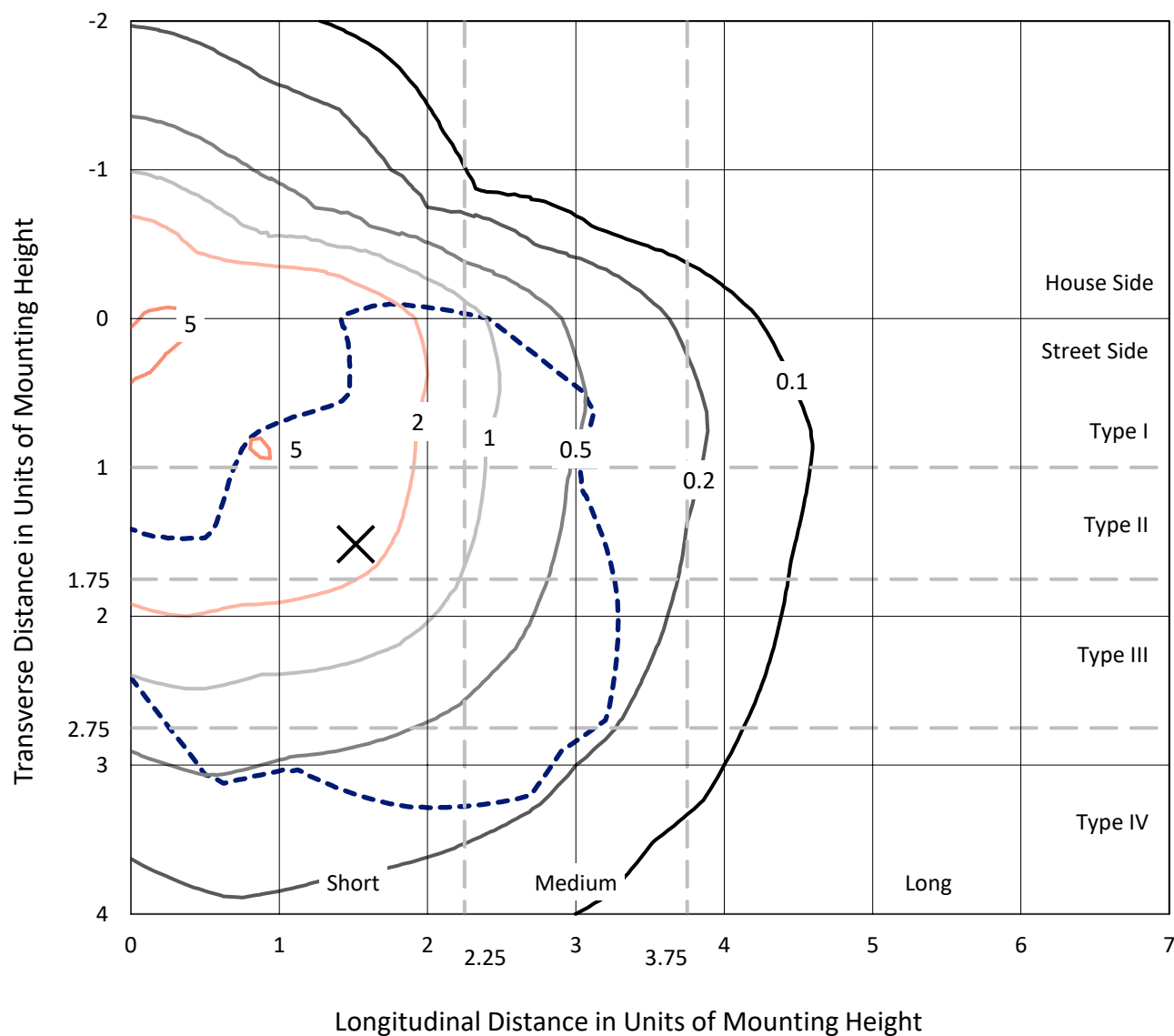
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

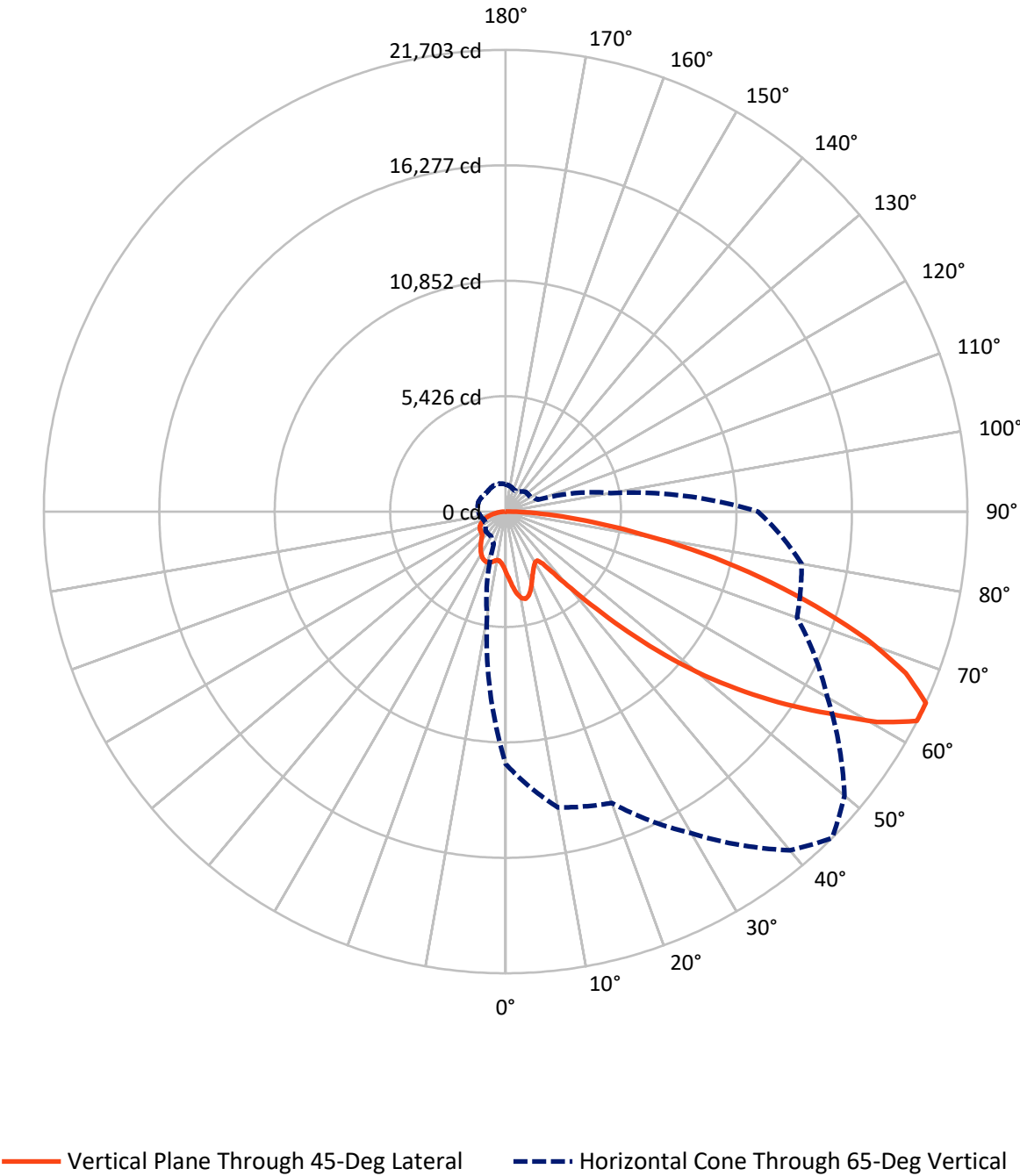


Based on 25 foot mounting height. Maximum calculated value = 6.3 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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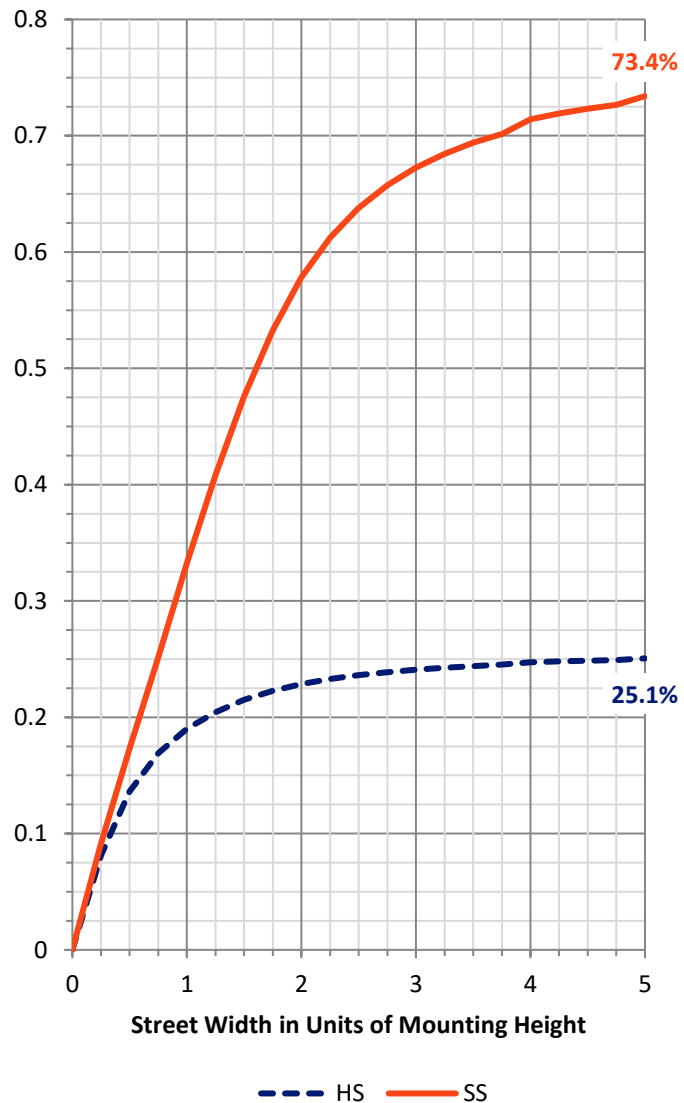
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5285.1	0.0	5285.1
	% Fixture	25.4	0.0	25.4
Street Side	Lumens	15510.1	0.0	15510.1
	% Fixture	74.6	0.0	74.6
Total	Lumens	20795.2	0.0	20795.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.7	1.4
10°-20°	890.5	4.3
20°-30°	1375.5	6.6
30°-40°	1743.1	8.4
40°-50°	2629.0	12.6
50°-60°	4247.5	20.4
60°-70°	5295.2	25.5
70°-80°	3472.3	16.7
80°-90°	858.4	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°	20795.2	100.0
0°-180°	20795.2	100.0

Coefficient of Utilization



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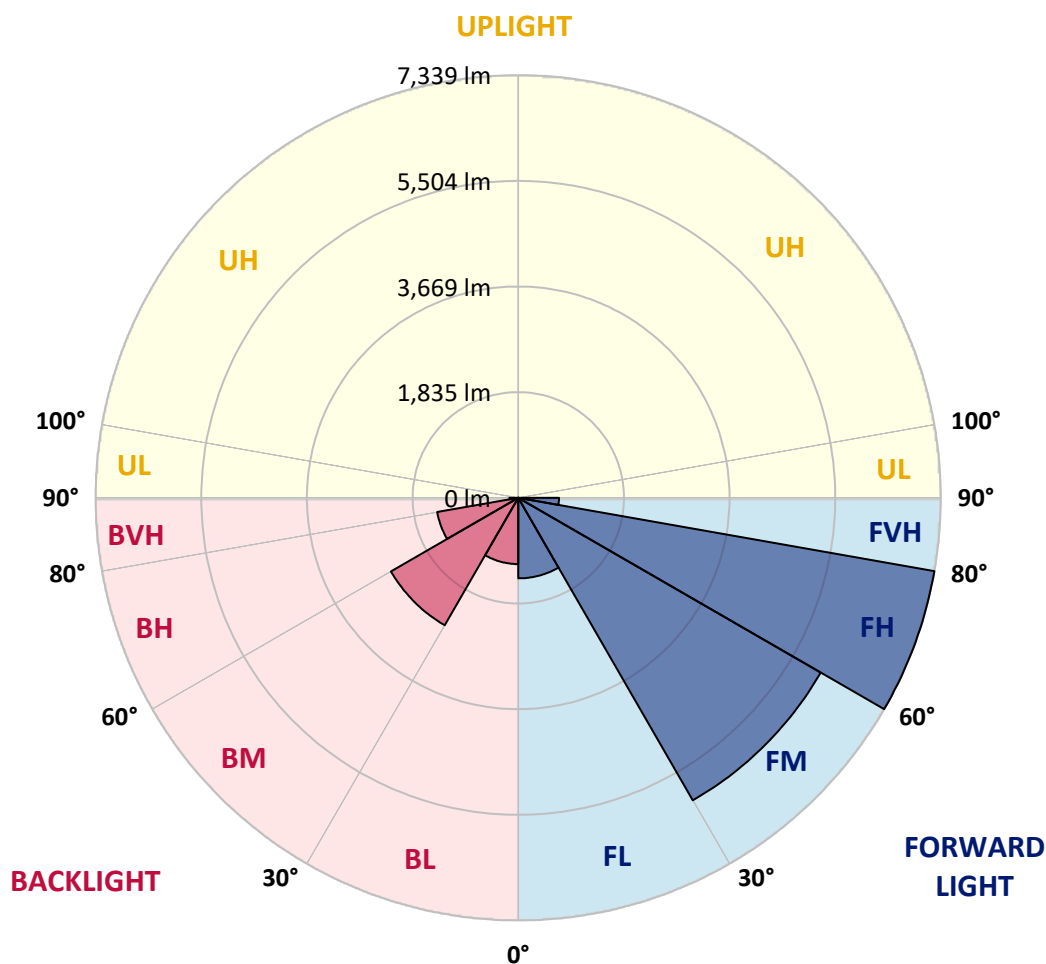
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1398.7	6.7			
FM	(30°-60°)	6065.5	29.2			
FH	(60°-80°)	7338.7	35.3			G3/7500
FVH	(80°-90°)	707.2	3.4			G4/750
BL	(0°-30°)	1150.9	5.5	B3/2500		
BM	(30°-60°)	2554.1	12.3	B3/5000		
BH	(60°-80°)	1428.8	6.9	B3/2500		G3/2500
BVH	(80°-90°)	151.3	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-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2859.5	2859.5	2859.5	2859.5	2859.5	2859.5	2859.5	2859.5	2859.5	2859.5	2859.5
2.5°	3075.1	3086.8	3098.5	3115.1	3131.7	3141.5	3151.4	3156.4	3161.3	3159.0	3161.3
5°	3306.6	3347.3	3388.2	3428.5	3469.0	3491.0	3513.0	3526.2	3539.6	3549.7	3539.6
7.5°	3539.3	3605.5	3671.8	3731.3	3790.9	3826.7	3862.6	3882.1	3901.4	3910.7	3901.4
10°	3717.6	3796.0	3874.3	3944.2	4014.1	4056.4	4098.6	4117.4	4136.2	4143.4	4136.2
12.5°	3826.7	3911.7	3996.5	4059.7	4122.8	4153.4	4184.2	4194.5	4204.8	4205.9	4204.8
15°	3893.2	3966.4	4039.6	4079.3	4119.0	4120.1	4121.2	4110.2	4099.2	4086.3	4099.2
17.5°	3930.5	3980.0	4029.5	4030.2	4030.9	3986.4	3941.9	3901.3	3860.5	3831.8	3860.5
20°	3971.6	3988.9	4006.2	3954.0	3902.0	3803.9	3705.8	3634.3	3562.9	3519.0	3562.9
22.5°	4019.3	3996.8	3974.1	3866.2	3758.2	3613.9	3469.6	3380.2	3291.0	3242.5	3291.0
25°	4080.8	4009.5	3938.2	3774.3	3610.3	3435.1	3259.8	3165.9	3072.1	3026.3	3072.1
27.5°	4164.2	4036.7	3909.0	3691.9	3474.9	3280.6	3086.5	2994.0	2901.8	2858.4	2901.8
30°	4276.7	4086.5	3896.4	3629.1	3361.9	3159.6	2957.2	2871.4	2785.7	2745.4	2785.7
32.5°	4409.4	4149.0	3888.7	3586.4	3284.0	3093.8	2903.6	2836.4	2769.0	2739.9	2769.0
35°	4570.8	4252.1	3933.5	3618.4	3303.4	3171.2	3039.2	3023.5	3007.9	3005.5	3007.9
37.5°	4842.3	4467.5	4092.6	3806.2	3519.8	3511.3	3502.7	3574.5	3646.2	3683.5	3646.2
40°	5252.7	4845.1	4437.4	4224.4	4011.4	4161.8	4312.1	4486.5	4661.1	4747.9	4661.1
42.5°	5797.0	5392.5	4988.1	4865.4	4742.7	5070.6	5398.4	5715.7	6033.0	6219.4	6033.0
45°	6469.0	6105.7	5742.3	5688.2	5634.0	6159.2	6684.6	7206.1	7727.6	8044.2	7727.6
47.5°	7309.6	6956.2	6602.5	6591.6	6580.6	7338.4	8096.0	8859.4	9622.6	10070.8	9622.6
50°	8411.3	7974.6	7538.2	7540.0	7541.8	8518.5	9495.0	10502.7	11510.2	12119.5	11510.2
52.5°	9675.8	9147.2	8618.6	8565.2	8511.6	9678.2	10844.7	12091.4	13338.0	14068.2	13338.0
55°	11022.2	10499.9	9977.6	9769.2	9560.9	10859.2	12157.3	13643.6	15129.9	15998.4	15129.9
57.5°	12246.8	11962.4	11677.8	11259.8	10842.0	12152.9	13463.9	15147.3	16830.7	17907.7	16830.7
60°	12986.9	13428.6	13870.5	13351.5	12832.5	14073.0	15313.7	17116.1	18918.4	20082.5	18918.4
62.5°	12611.1	13818.2	15025.3	14966.8	14908.2	16044.7	17181.3	18896.1	20610.8	21686.7	20610.8
65°	11858.8	12991.9	14124.8	14349.0	14573.0	16017.3	17461.6	19124.4	20787.1	21703.1	20787.1
67.5°	10851.1	11928.5	13006.1	13111.2	13216.2	14721.0	16225.7	17895.7	19565.6	20283.3	19565.6
70°	9640.2	10812.2	11984.3	12031.2	12078.3	13424.0	14769.6	16206.8	17643.7	18042.7	17643.7
72.5°	8197.2	9542.2	10887.2	10921.1	10954.7	12007.6	13060.4	14136.7	15212.9	15253.3	15212.9
75°	6371.9	7764.0	9155.9	9281.0	9405.9	10225.0	11044.2	11801.8	12559.5	12356.5	12559.5
77.5°	4552.6	5852.0	7151.5	7330.4	7509.3	8131.9	8754.6	9292.0	9829.4	9480.5	9829.4
80°	2979.7	4072.9	5166.0	5388.3	5610.6	6080.9	6551.0	6833.3	7115.3	6554.1	7115.3
82.5°	1732.0	2479.4	3226.9	3475.2	3723.6	4047.3	4371.0	4488.8	4606.3	4165.3	4606.3
85°	762.1	1158.8	1555.4	1766.6	1977.8	2243.8	2509.7	2576.5	2643.4	2290.1	2643.4
87.5°	236.0	369.2	502.6	620.4	738.2	871.2	1004.2	1009.9	1015.6	852.6	1015.6
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°	2859.5	2859.5	2859.5	2859.5	2859.5	2859.5	2859.5	2859.5	2859.5	2859.5	2859.5
2.5°	3156.4	3151.4	3141.5	3131.7	3115.1	3098.5	3086.8	3075.1	3051.5	3028.0	3002.8
5°	3526.2	3513.0	3491.0	3469.0	3428.5	3388.2	3347.3	3306.6	3254.6	3202.4	3150.4
7.5°	3882.1	3862.6	3826.7	3790.9	3731.3	3671.8	3605.5	3539.3	3453.2	3367.3	3287.9
10°	4117.4	4098.6	4056.4	4014.1	3944.2	3874.3	3796.0	3717.6	3608.8	3500.1	3395.1
12.5°	4194.5	4184.2	4153.4	4122.8	4059.7	3996.5	3911.7	3826.7	3707.3	3587.9	3468.9
15°	4110.2	4121.2	4120.1	4119.0	4079.3	4039.6	3966.4	3893.2	3768.6	3644.1	3515.0
17.5°	3901.3	3941.9	3986.4	4030.9	4030.2	4029.5	3980.0	3930.5	3804.2	3677.9	3537.1
20°	3634.3	3705.8	3803.9	3902.0	3954.0	4006.2	3988.9	3971.6	3840.4	3709.1	3554.3
22.5°	3380.2	3469.6	3613.9	3758.2	3866.2	3974.1	3996.8	4019.3	3885.3	3751.1	3577.6
25°	3165.9	3259.8	3435.1	3610.3	3774.3	3938.2	4009.5	4080.8	3949.3	3818.0	3619.7
27.5°	2994.0	3086.5	3280.6	3474.9	3691.9	3909.0	4036.7	4164.2	4038.9	3913.4	3685.6
30°	2871.4	2957.2	3159.6	3361.9	3629.1	3896.4	4086.5	4276.7	4155.6	4034.5	3770.8
32.5°	2836.4	2903.6	3093.8	3284.0	3586.4	3888.7	4149.0	4409.4	4289.5	4169.7	3859.8
35°	3023.5	3039.2	3171.2	3303.4	3618.4	3933.5	4252.1	4570.8	4456.0	4341.1	3961.2
37.5°	3574.5	3502.7	3511.3	3519.8	3806.2	4092.6	4467.5	4842.3	4695.9	4549.6	4074.8
40°	4486.5	4312.1	4161.8	4011.4	4224.4	4437.4	4845.1	5252.7	5039.4	4826.1	4218.9
42.5°	5715.7	5398.4	5070.6	4742.7	4865.4	4988.1	5392.5	5797.0	5489.1	5181.2	4407.6
45°	7206.1	6684.6	6159.2	5634.0	5688.2	5742.3	6105.7	6469.0	6053.8	5638.4	4655.8
47.5°	8859.4	8096.0	7338.4	6580.6	6591.6	6602.5	6956.2	7309.6	6725.0	6140.4	4920.2
50°	10502.7	9495.0	8518.5	7541.8	7540.0	7538.2	7974.6	8411.3	7530.0	6648.7	5165.6
52.5°	12091.4	10844.7	9678.2	8511.6	8565.2	8618.6	9147.2	9675.8	8375.6	7075.3	5324.9
55°	13643.6	12157.3	10859.2	9560.9	9769.2	9977.6	10499.9	11022.2	9125.3	7228.3	5289.8
57.5°	15147.3	13463.9	12152.9	10842.0	11259.8	11677.8	11962.4	12246.8	9656.5	7066.2	5042.7
60°	17116.1	15313.7	14073.0	12832.5	13351.5	13870.5	13428.6	12986.9	9789.3	6591.6	4582.8
62.5°	18896.1	17181.3	16044.7	14908.2	14966.8	15025.3	13818.2	12611.1	9230.2	5849.4	3961.0
65°	19124.4	17461.6	16017.3	14573.0	14349.0	14124.8	12991.9	11858.8	8439.2	5019.5	3326.5
67.5°	17895.7	16225.7	14721.0	13216.2	13111.2	13006.1	11928.5	10851.1	7497.9	4144.7	2705.0
70°	16206.8	14769.6	13424.0	12078.3	12031.2	11984.3	10812.2	9640.2	6470.7	3301.2	2129.8
72.5°	14136.7	13060.4	12007.6	10954.7	10921.1	10887.2	9542.2	8197.2	5357.2	2517.2	1628.2
75°	11801.8	11044.2	10225.0	9405.9	9281.0	9155.9	7764.0	6371.9	4080.7	1789.4	1181.7
77.5°	9292.0	8754.6	8131.9	7509.3	7330.4	7151.5	5852.0	4552.6	2856.2	1159.6	800.8
80°	6833.3	6551.0	6080.9	5610.6	5388.3	5166.0	4072.9	2979.7	1840.2	700.6	516.0
82.5°	4488.8	4371.0	4047.3	3723.6	3475.2	3226.9	2479.4	1732.0	1065.0	398.1	317.3
85°	2576.5	2509.7	2243.8	1977.8	1766.6	1555.4	1158.8	762.1	479.1	196.2	169.6
87.5°	1009.9	1004.2	871.2	738.2	620.4	502.6	369.2	236.0	156.9	77.9	70.3
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2859.5	2859.5	2859.5	2859.5	2859.5	2859.5	2859.5	2859.5	2859.5	2859.5	2859.5
2.5°	2977.8	2952.6	2927.3	2903.2	2879.0	2855.6	2829.7	2808.6	2787.7	2768.6	2749.8
5°	3098.5	3046.2	2993.9	2945.1	2896.2	2850.2	2804.6	2764.9	2725.1	2691.8	2658.5
7.5°	3208.5	3131.1	3053.8	2985.6	2917.5	2854.6	2795.7	2742.8	2690.0	2646.1	2602.2
10°	3290.2	3196.3	3102.3	3021.7	2940.9	2863.3	2800.1	2744.3	2688.6	2644.7	2600.7
12.5°	3350.0	3239.2	3128.4	3037.2	2946.0	2864.5	2805.5	2759.9	2714.5	2685.3	2656.3
15°	3386.0	3258.4	3130.8	3025.2	2919.6	2829.3	2782.2	2760.3	2738.6	2742.6	2746.5
17.5°	3396.3	3248.2	3100.0	2973.1	2846.1	2739.9	2710.8	2718.8	2726.7	2774.6	2822.4
20°	3399.6	3220.0	3040.6	2883.2	2725.9	2602.2	2594.5	2631.8	2669.1	2752.2	2835.4
22.5°	3404.0	3185.6	2967.3	2777.7	2588.2	2447.5	2462.6	2517.7	2573.0	2667.7	2762.8
25°	3421.3	3151.6	2882.0	2660.1	2438.2	2293.8	2334.4	2398.1	2461.7	2547.0	2632.4
27.5°	3457.5	3128.9	2800.3	2552.4	2304.5	2173.2	2222.5	2284.0	2345.4	2415.5	2485.5
30°	3507.1	3118.3	2729.2	2462.5	2195.7	2085.4	2124.1	2172.8	2221.8	2279.9	2338.1
32.5°	3549.9	3105.1	2660.1	2384.9	2109.6	2020.7	2037.9	2066.7	2095.6	2142.0	2188.6
35°	3581.4	3080.3	2579.5	2308.6	2037.7	1963.6	1956.4	1964.3	1972.4	2007.8	2043.1
37.5°	3600.0	3037.8	2475.7	2218.8	1962.0	1897.2	1871.1	1862.3	1853.5	1879.0	1904.3
40°	3611.7	2979.4	2347.0	2111.7	1876.4	1817.6	1777.6	1757.8	1737.9	1756.2	1774.5
42.5°	3633.9	2919.0	2204.3	1993.5	1782.9	1728.8	1678.3	1652.0	1625.6	1640.5	1655.6
45°	3673.2	2862.9	2052.8	1868.1	1683.3	1628.4	1579.5	1553.9	1528.3	1540.8	1553.5
47.5°	3700.0	2816.6	1933.2	1768.7	1604.2	1533.5	1491.5	1470.0	1448.4	1460.2	1472.0
50°	3682.5	2766.2	1849.8	1702.7	1555.7	1462.7	1413.9	1394.7	1375.8	1394.2	1412.8
52.5°	3574.4	2680.9	1787.5	1659.3	1531.2	1424.2	1356.0	1337.1	1318.4	1346.1	1373.8
55°	3351.1	2539.5	1728.0	1627.8	1527.7	1428.1	1325.3	1295.5	1265.7	1305.1	1344.4
57.5°	3019.1	2340.3	1661.3	1590.5	1519.8	1431.9	1306.9	1263.4	1220.0	1262.3	1304.6
60°	2574.0	2081.6	1589.1	1533.5	1477.8	1419.9	1289.6	1233.3	1176.8	1214.0	1251.1
62.5°	2072.5	1771.9	1471.3	1434.3	1397.4	1390.2	1269.4	1198.8	1128.5	1152.1	1175.8
65°	1633.6	1493.3	1353.0	1335.5	1318.0	1319.0	1226.7	1151.9	1077.0	1086.1	1095.1
67.5°	1265.4	1225.6	1185.6	1195.4	1205.0	1202.6	1150.9	1088.6	1026.2	1023.4	1020.5
70°	958.5	969.9	981.2	1026.4	1071.5	1071.5	1054.5	1010.1	965.9	955.9	946.1
72.5°	739.3	773.7	808.1	872.3	936.2	947.0	947.2	916.8	886.4	871.9	857.5
75°	574.1	605.3	636.4	708.2	779.9	829.5	825.3	802.0	778.5	764.6	750.7
77.5°	442.0	463.2	484.4	554.1	623.8	705.5	703.4	684.6	665.8	651.8	637.8
80°	331.4	340.2	348.9	408.0	466.9	564.6	564.3	548.6	532.7	521.0	509.1
82.5°	236.8	238.3	240.1	283.5	327.0	410.4	415.0	407.3	399.6	391.2	382.9
85°	143.2	142.5	141.6	173.3	205.2	267.2	273.3	265.0	256.8	247.4	238.1
87.5°	62.7	62.0	61.2	74.2	87.2	113.1	120.7	117.4	114.1	112.3	110.6
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: P967880

CATALOG NUMBER: NAV-SB5A-830-U-SLL

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2859.5	2859.5	2859.5	2859.5	2859.5	2859.5	2859.5	2859.5	2859.5	2859.5	2859.5
2.5°	2733.3	2716.7	2700.0	2683.4	2670.5	2657.6	2647.2	2636.8	2628.6	2620.5	2613.0
5°	2629.1	2599.7	2573.1	2546.2	2525.7	2505.1	2490.8	2476.3	2466.1	2455.9	2448.1
7.5°	2565.3	2528.2	2495.5	2462.9	2438.4	2414.0	2396.9	2379.7	2368.1	2356.4	2349.4
10°	2561.0	2521.0	2484.3	2447.5	2418.3	2389.0	2369.9	2350.6	2339.6	2328.4	2322.5
12.5°	2624.9	2593.8	2555.6	2517.7	2480.4	2443.1	2418.4	2393.7	2381.3	2369.1	2364.0
15°	2738.4	2730.3	2697.2	2664.2	2611.1	2558.0	2520.5	2483.0	2465.7	2448.6	2442.0
17.5°	2847.9	2873.3	2846.5	2820.0	2749.7	2679.4	2624.0	2568.8	2543.3	2517.7	2509.4
20°	2888.6	2941.9	2929.6	2917.1	2836.7	2756.3	2688.6	2620.8	2588.2	2555.5	2545.2
22.5°	2832.0	2901.3	2908.6	2916.0	2839.2	2762.4	2692.6	2622.8	2588.3	2553.9	2542.4
25°	2700.6	2768.6	2794.1	2819.5	2756.5	2693.6	2631.5	2569.6	2539.7	2510.0	2499.2
27.5°	2540.3	2594.9	2623.2	2651.6	2606.7	2561.9	2513.8	2465.6	2445.6	2425.6	2420.6
30°	2383.4	2428.8	2451.9	2475.0	2440.8	2406.6	2372.1	2337.4	2327.3	2316.9	2316.9
32.5°	2231.9	2275.5	2301.1	2326.8	2295.4	2263.9	2236.3	2208.9	2202.1	2195.4	2196.4
35°	2086.2	2129.2	2160.0	2190.7	2168.4	2146.0	2120.6	2095.3	2085.1	2075.0	2072.8
37.5°	1947.2	1990.2	2028.2	2066.2	2055.8	2045.6	2022.2	1998.7	1980.2	1961.7	1951.9
40°	1816.0	1857.5	1901.2	1944.9	1947.5	1949.9	1930.0	1910.2	1883.1	1856.4	1838.1
42.5°	1694.8	1734.3	1781.4	1828.6	1841.2	1853.8	1837.1	1820.4	1786.9	1753.5	1727.0
45°	1590.8	1628.1	1677.1	1726.0	1744.1	1762.3	1747.1	1732.0	1693.8	1655.6	1624.5
47.5°	1508.6	1545.0	1593.3	1641.5	1662.3	1683.3	1672.7	1662.1	1628.1	1594.2	1565.4
50°	1447.2	1481.5	1524.8	1568.0	1594.8	1621.6	1620.9	1620.4	1593.3	1566.0	1539.4
52.5°	1405.4	1436.8	1477.1	1517.5	1549.3	1581.0	1586.7	1592.3	1570.2	1548.1	1524.3
55°	1378.4	1412.4	1447.7	1483.0	1516.6	1550.2	1558.1	1566.0	1546.7	1527.5	1506.5
57.5°	1344.6	1384.6	1419.4	1454.5	1488.4	1522.1	1530.1	1538.2	1518.6	1499.1	1478.5
60°	1297.0	1342.9	1378.3	1413.9	1447.9	1481.8	1490.7	1499.5	1480.3	1461.3	1440.1
62.5°	1229.2	1282.7	1320.6	1358.4	1389.6	1420.8	1429.3	1437.7	1420.4	1403.2	1380.8
65°	1152.4	1209.7	1246.0	1282.2	1309.6	1337.0	1345.7	1354.2	1337.7	1321.1	1299.4
67.5°	1073.4	1126.4	1160.7	1194.9	1218.6	1242.3	1250.8	1259.1	1243.8	1228.8	1208.6
70°	992.6	1039.1	1068.8	1098.4	1119.8	1141.1	1149.3	1157.4	1145.0	1132.6	1113.3
72.5°	894.2	930.7	957.5	984.3	1005.2	1026.2	1035.9	1045.5	1035.1	1024.9	1006.4
75°	778.0	805.1	829.4	853.7	872.8	891.9	902.0	912.0	907.0	902.0	886.5
77.5°	659.9	681.9	702.8	723.6	743.7	763.7	773.2	782.6	775.5	768.3	752.8
80°	527.6	545.9	563.4	581.0	596.2	611.4	623.9	636.4	633.3	630.4	609.5
82.5°	381.4	379.9	373.7	367.6	400.1	432.6	453.9	475.1	473.9	472.4	454.7
85°	230.2	222.2	205.2	188.2	218.5	249.1	275.4	301.8	299.6	297.4	283.5
87.5°	110.3	110.0	97.0	83.9	96.7	109.5	120.1	130.8	128.1	125.4	118.3
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: P967880

CATALOG NUMBER: NAV-SB5A-830-U-SLL

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2859.5	2859.5	2859.5	2859.5	2859.5	2859.5	2859.5	2859.5	2859.5	2859.5	2859.5
2.5°	2605.4	2596.1	2605.4	2613.0	2620.5	2628.6	2636.8	2647.2	2657.6	2670.5	2683.4
5°	2440.3	2432.6	2440.3	2448.1	2455.9	2466.1	2476.3	2490.8	2505.1	2525.7	2546.2
7.5°	2342.4	2337.2	2342.4	2349.4	2356.4	2368.1	2379.7	2396.9	2414.0	2438.4	2462.9
10°	2316.6	2314.1	2316.6	2322.5	2328.4	2339.6	2350.6	2369.9	2389.0	2418.3	2447.5
12.5°	2358.9	2358.0	2358.9	2364.0	2369.1	2381.3	2393.7	2418.4	2443.1	2480.4	2517.7
15°	2435.4	2434.9	2435.4	2442.0	2448.6	2465.7	2483.0	2520.5	2558.0	2611.1	2664.2
17.5°	2500.9	2499.6	2500.9	2509.4	2517.7	2543.3	2568.8	2624.0	2679.4	2749.7	2820.0
20°	2534.7	2531.4	2534.7	2545.2	2555.5	2588.2	2620.8	2688.6	2756.3	2836.7	2917.1
22.5°	2530.9	2525.9	2530.9	2542.4	2553.9	2588.3	2622.8	2692.6	2762.4	2839.2	2916.0
25°	2488.4	2482.0	2488.4	2499.2	2510.0	2539.7	2569.6	2631.5	2693.6	2756.5	2819.5
27.5°	2415.6	2414.0	2415.6	2420.6	2425.6	2445.6	2465.6	2513.8	2561.9	2606.7	2651.6
30°	2316.9	2318.5	2316.9	2316.9	2316.9	2327.3	2337.4	2372.1	2406.6	2440.8	2475.0
32.5°	2197.3	2198.9	2197.3	2196.4	2195.4	2202.1	2208.9	2236.3	2263.9	2295.4	2326.8
35°	2070.6	2069.5	2070.6	2072.8	2075.0	2085.1	2095.3	2120.6	2146.0	2168.4	2190.7
37.5°	1942.2	1936.7	1942.2	1951.9	1961.7	1980.2	1998.7	2022.2	2045.6	2055.8	2066.2
40°	1820.2	1809.4	1820.2	1838.1	1856.4	1883.1	1910.2	1930.0	1949.9	1947.5	1944.9
42.5°	1700.6	1683.3	1700.6	1727.0	1753.5	1786.9	1820.4	1837.1	1853.8	1841.2	1828.6
45°	1593.5	1573.5	1593.5	1624.5	1655.6	1693.8	1732.0	1747.1	1762.3	1744.1	1726.0
47.5°	1536.8	1517.5	1536.8	1565.4	1594.2	1628.1	1662.1	1672.7	1683.3	1662.3	1641.5
50°	1512.9	1494.4	1512.9	1539.4	1566.0	1593.3	1620.4	1620.9	1621.6	1594.8	1568.0
52.5°	1500.5	1483.5	1500.5	1524.3	1548.1	1570.2	1592.3	1586.7	1581.0	1549.3	1517.5
55°	1485.7	1470.4	1485.7	1506.5	1527.5	1546.7	1566.0	1558.1	1550.2	1516.6	1483.0
57.5°	1457.8	1441.9	1457.8	1478.5	1499.1	1518.6	1538.2	1530.1	1522.1	1488.4	1454.5
60°	1418.8	1402.3	1418.8	1440.1	1461.3	1480.3	1499.5	1490.7	1481.8	1447.9	1413.9
62.5°	1358.4	1338.6	1358.4	1380.8	1403.2	1420.4	1437.7	1429.3	1420.8	1389.6	1358.4
65°	1277.8	1260.8	1277.8	1299.4	1321.1	1337.7	1354.2	1345.7	1337.0	1309.6	1282.2
67.5°	1188.4	1173.0	1188.4	1208.6	1228.8	1243.8	1259.1	1250.8	1242.3	1218.6	1194.9
70°	1094.0	1076.5	1094.0	1113.3	1132.6	1145.0	1157.4	1149.3	1141.1	1119.8	1098.4
72.5°	988.1	971.1	988.1	1006.4	1024.9	1035.1	1045.5	1035.9	1026.2	1005.2	984.3
75°	871.0	854.7	871.0	886.5	902.0	907.0	912.0	902.0	891.9	872.8	853.7
77.5°	737.2	724.2	737.2	752.8	768.3	775.5	782.6	773.2	763.7	743.7	723.6
80°	588.3	564.0	588.3	609.5	630.4	633.3	636.4	623.9	611.4	596.2	581.0
82.5°	437.0	421.4	437.0	454.7	472.4	473.9	475.1	453.9	432.6	400.1	367.6
85°	269.7	255.6	269.7	283.5	297.4	299.6	301.8	275.4	249.1	218.5	188.2
87.5°	111.0	104.2	111.0	118.3	125.4	128.1	130.8	120.1	109.5	96.7	83.9
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: P967880

CATALOG NUMBER: NAV-SB5A-830-U-SLL

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2859.5	2859.5	2859.5	2859.5	2859.5	2859.5	2859.5	2859.5	2859.5	2859.5	2859.5
2.5°	2700.0	2716.7	2733.3	2749.8	2768.6	2787.7	2808.6	2829.7	2855.6	2879.0	2903.2
5°	2573.1	2599.7	2629.1	2658.5	2691.8	2725.1	2764.9	2804.6	2850.2	2896.2	2945.1
7.5°	2495.5	2528.2	2565.3	2602.2	2646.1	2690.0	2742.8	2795.7	2854.6	2917.5	2985.6
10°	2484.3	2521.0	2561.0	2600.7	2644.7	2688.6	2744.3	2800.1	2863.3	2940.9	3021.7
12.5°	2555.6	2593.8	2624.9	2656.3	2685.3	2714.5	2759.9	2805.5	2864.5	2946.0	3037.2
15°	2697.2	2730.3	2738.4	2746.5	2742.6	2738.6	2760.3	2782.2	2829.3	2919.6	3025.2
17.5°	2846.5	2873.3	2847.9	2822.4	2774.6	2726.7	2718.8	2710.8	2739.9	2846.1	2973.1
20°	2929.6	2941.9	2888.6	2835.4	2752.2	2669.1	2631.8	2594.5	2602.2	2725.9	2883.2
22.5°	2908.6	2901.3	2832.0	2762.8	2667.7	2573.0	2517.7	2462.6	2447.5	2588.2	2777.7
25°	2794.1	2768.6	2700.6	2632.4	2547.0	2461.7	2398.1	2334.4	2293.8	2438.2	2660.1
27.5°	2623.2	2594.9	2540.3	2485.5	2415.5	2345.4	2284.0	2222.5	2173.2	2304.5	2552.4
30°	2451.9	2428.8	2383.4	2338.1	2279.9	2221.8	2172.8	2124.1	2085.4	2195.7	2462.5
32.5°	2301.1	2275.5	2231.9	2188.6	2142.0	2095.6	2066.7	2037.9	2020.7	2109.6	2384.9
35°	2160.0	2129.2	2086.2	2043.1	2007.8	1972.4	1964.3	1956.4	1963.6	2037.7	2308.6
37.5°	2028.2	1990.2	1947.2	1904.3	1879.0	1853.5	1862.3	1871.1	1897.2	1962.0	2218.8
40°	1901.2	1857.5	1816.0	1774.5	1756.2	1737.9	1757.8	1777.6	1817.6	1876.4	2111.7
42.5°	1781.4	1734.3	1694.8	1655.6	1640.5	1625.6	1652.0	1678.3	1728.8	1782.9	1993.5
45°	1677.1	1628.1	1590.8	1553.5	1540.8	1528.3	1553.9	1579.5	1628.4	1683.3	1868.1
47.5°	1593.3	1545.0	1508.6	1472.0	1460.2	1448.4	1470.0	1491.5	1533.5	1604.2	1768.7
50°	1524.8	1481.5	1447.2	1412.8	1394.2	1375.8	1394.7	1413.9	1462.7	1555.7	1702.7
52.5°	1477.1	1436.8	1405.4	1373.8	1346.1	1318.4	1337.1	1356.0	1424.2	1531.2	1659.3
55°	1447.7	1412.4	1378.4	1344.4	1305.1	1265.7	1295.5	1325.3	1428.1	1527.7	1627.8
57.5°	1419.4	1384.6	1344.6	1304.6	1262.3	1220.0	1263.4	1306.9	1431.9	1519.8	1590.5
60°	1378.3	1342.9	1297.0	1251.1	1214.0	1176.8	1233.3	1289.6	1419.9	1477.8	1533.5
62.5°	1320.6	1282.7	1229.2	1175.8	1152.1	1128.5	1198.8	1269.4	1390.2	1397.4	1434.3
65°	1246.0	1209.7	1152.4	1095.1	1086.1	1077.0	1151.9	1226.7	1319.0	1318.0	1335.5
67.5°	1160.7	1126.4	1073.4	1020.5	1023.4	1026.2	1088.6	1150.9	1202.6	1205.0	1195.4
70°	1068.8	1039.1	992.6	946.1	955.9	965.9	1010.1	1054.5	1071.5	1071.5	1026.4
72.5°	957.5	930.7	894.2	857.5	871.9	886.4	916.8	947.2	947.0	936.2	872.3
75°	829.4	805.1	778.0	750.7	764.6	778.5	802.0	825.3	829.5	779.9	708.2
77.5°	702.8	681.9	659.9	637.8	651.8	665.8	684.6	703.4	705.5	623.8	554.1
80°	563.4	545.9	527.6	509.1	521.0	532.7	548.6	564.3	564.6	466.9	408.0
82.5°	373.7	379.9	381.4	382.9	391.2	399.6	407.3	415.0	410.4	327.0	283.5
85°	205.2	222.2	230.2	238.1	247.4	256.8	265.0	273.3	267.2	205.2	173.3
87.5°	97.0	110.0	110.3	110.6	112.3	114.1	117.4	120.7	113.1	87.2	74.2
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: P967880

CATALOG NUMBER: NAV-SB5A-830-U-SLL

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	2859.5	2859.5	2859.5	2859.5	2859.5	2859.5	2859.5
2.5°	2927.3	2952.6	2977.8	3002.8	3028.0	3051.5	3075.1
5°	2993.9	3046.2	3098.5	3150.4	3202.4	3254.6	3306.6
7.5°	3053.8	3131.1	3208.5	3287.9	3367.3	3453.2	3539.3
10°	3102.3	3196.3	3290.2	3395.1	3500.1	3608.8	3717.6
12.5°	3128.4	3239.2	3350.0	3468.9	3587.9	3707.3	3826.7
15°	3130.8	3258.4	3386.0	3515.0	3644.1	3768.6	3893.2
17.5°	3100.0	3248.2	3396.3	3537.1	3677.9	3804.2	3930.5
20°	3040.6	3220.0	3399.6	3554.3	3709.1	3840.4	3971.6
22.5°	2967.3	3185.6	3404.0	3577.6	3751.1	3885.3	4019.3
25°	2882.0	3151.6	3421.3	3619.7	3818.0	3949.3	4080.8
27.5°	2800.3	3128.9	3457.5	3685.6	3913.4	4038.9	4164.2
30°	2729.2	3118.3	3507.1	3770.8	4034.5	4155.6	4276.7
32.5°	2660.1	3105.1	3549.9	3859.8	4169.7	4289.5	4409.4
35°	2579.5	3080.3	3581.4	3961.2	4341.1	4456.0	4570.8
37.5°	2475.7	3037.8	3600.0	4074.8	4549.6	4695.9	4842.3
40°	2347.0	2979.4	3611.7	4218.9	4826.1	5039.4	5252.7
42.5°	2204.3	2919.0	3633.9	4407.6	5181.2	5489.1	5797.0
45°	2052.8	2862.9	3673.2	4655.8	5638.4	6053.8	6469.0
47.5°	1933.2	2816.6	3700.0	4920.2	6140.4	6725.0	7309.6
50°	1849.8	2766.2	3682.5	5165.6	6648.7	7530.0	8411.3
52.5°	1787.5	2680.9	3574.4	5324.9	7075.3	8375.6	9675.8
55°	1728.0	2539.5	3351.1	5289.8	7228.3	9125.3	11022.2
57.5°	1661.3	2340.3	3019.1	5042.7	7066.2	9656.5	12246.8
60°	1589.1	2081.6	2574.0	4582.8	6591.6	9789.3	12986.9
62.5°	1471.3	1771.9	2072.5	3961.0	5849.4	9230.2	12611.1
65°	1353.0	1493.3	1633.6	3326.5	5019.5	8439.2	11858.8
67.5°	1185.6	1225.6	1265.4	2705.0	4144.7	7497.9	10851.1
70°	981.2	969.9	958.5	2129.8	3301.2	6470.7	9640.2
72.5°	808.1	773.7	739.3	1628.2	2517.2	5357.2	8197.2
75°	636.4	605.3	574.1	1181.7	1789.4	4080.7	6371.9
77.5°	484.4	463.2	442.0	800.8	1159.6	2856.2	4552.6
80°	348.9	340.2	331.4	516.0	700.6	1840.2	2979.7
82.5°	240.1	238.3	236.8	317.3	398.1	1065.0	1732.0
85°	141.6	142.5	143.2	169.6	196.2	479.1	762.1
87.5°	61.2	62.0	62.7	70.3	77.9	156.9	236.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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