

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: P969461

Luminaire Tested: **NAV-SB5D-830-U-SLL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969461
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-SB5D-830-U-SLL
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47173.6 lumens
Efficiency: N/A
Efficacy: 129.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

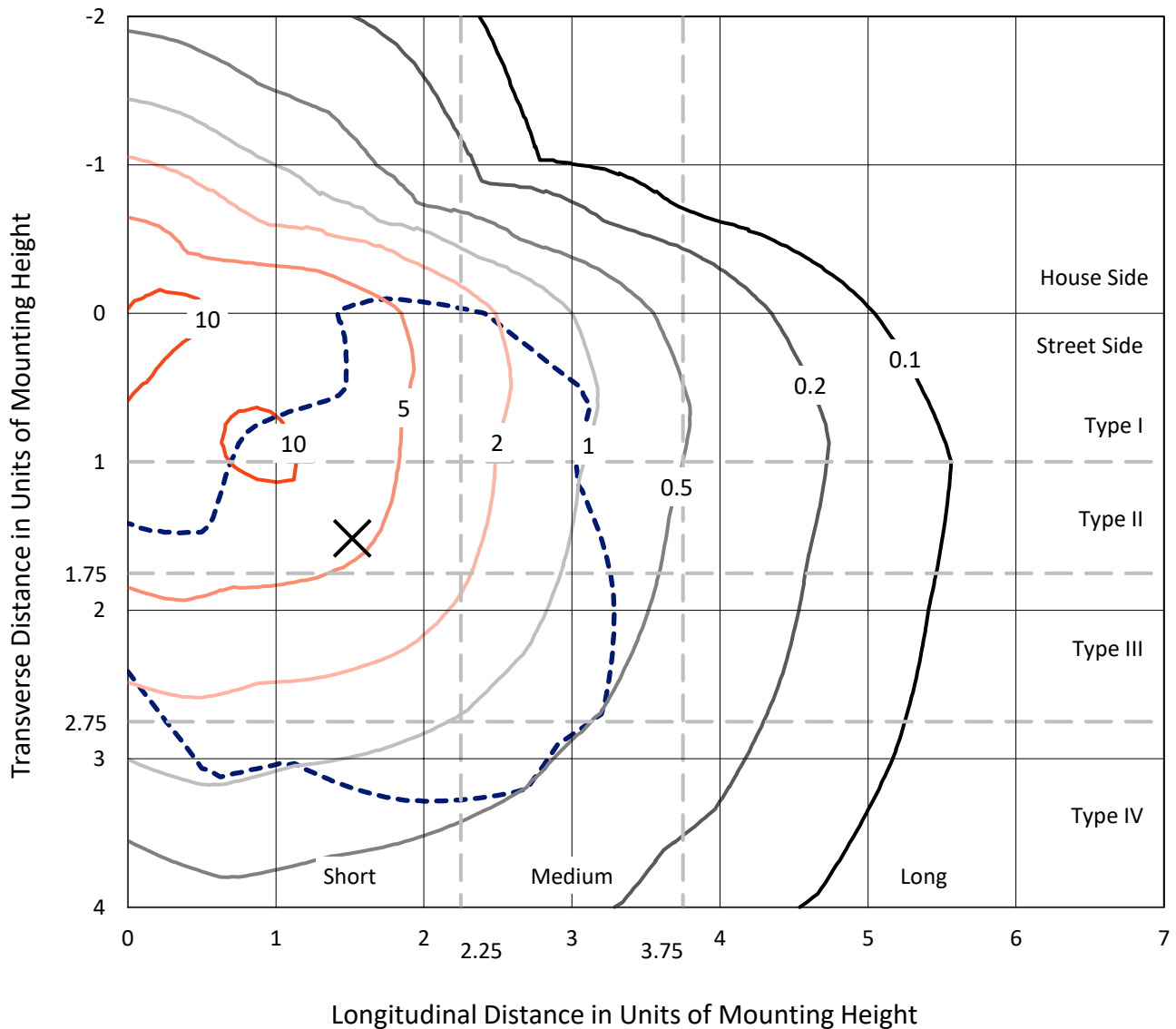
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

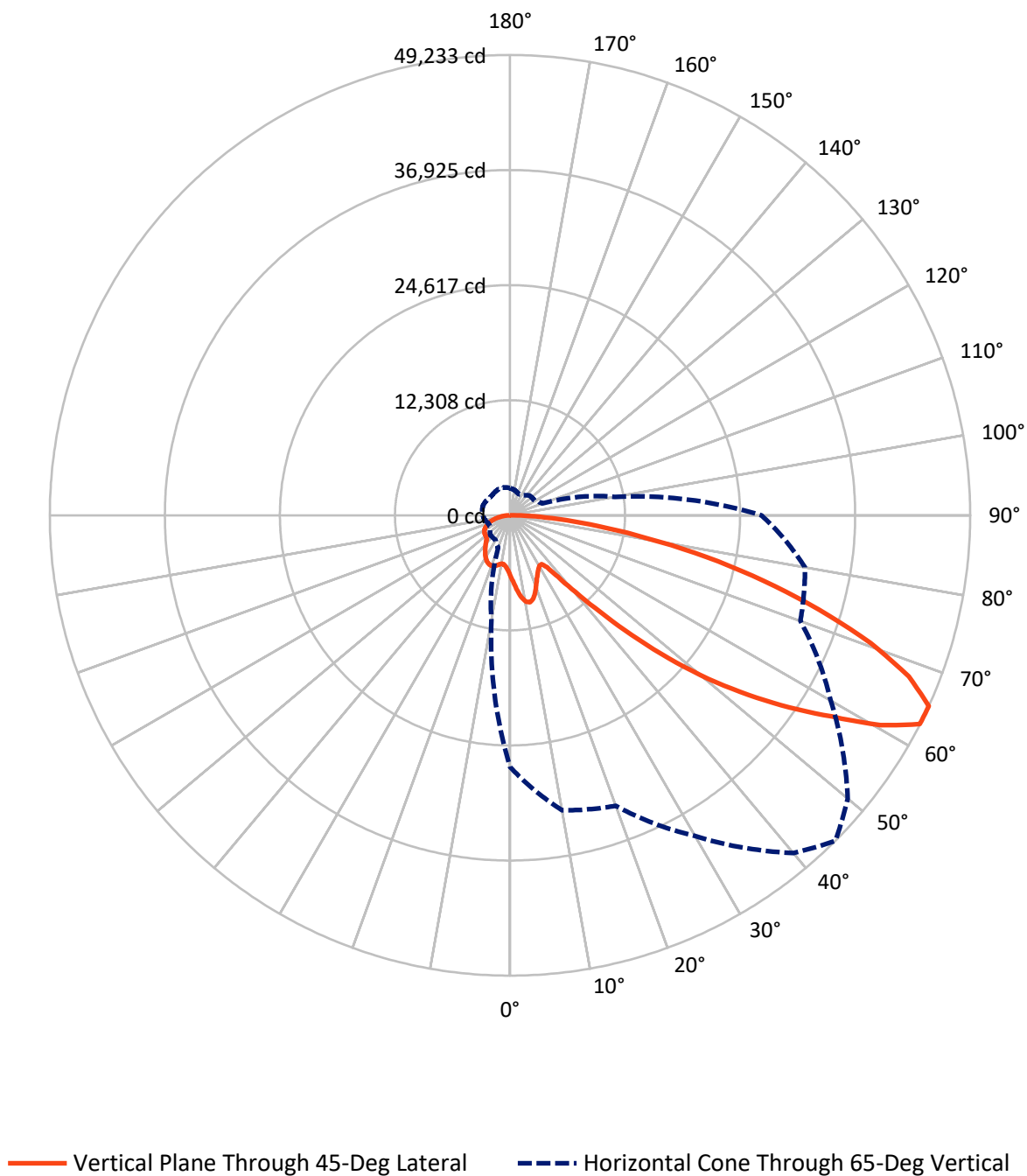
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.4 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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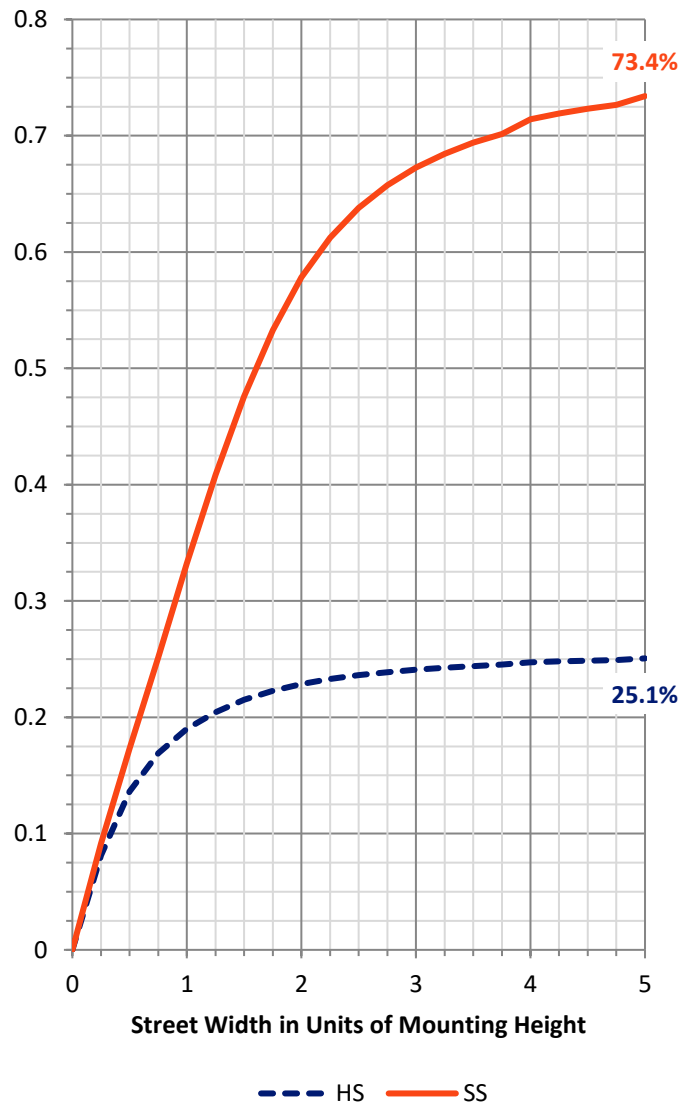
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11989.1	0.0	11989.1
	% Fixture	25.4	0.0	25.4
Street Side	Lumens	35184.4	0.0	35184.4
	% Fixture	74.6	0.0	74.6
Total	Lumens	47173.6	0.0	47173.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	643.5	1.4
10°-20°	2020.0	4.3
20°-30°	3120.2	6.6
30°-40°	3954.1	8.4
40°-50°	5963.8	12.6
50°-60°	9635.4	20.4
60°-70°	12012.1	25.5
70°-80°	7876.9	16.7
80°-90°	1947.4	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°	47173.6	100.0
0°-180°	47173.6	100.0

Coefficient of Utilization



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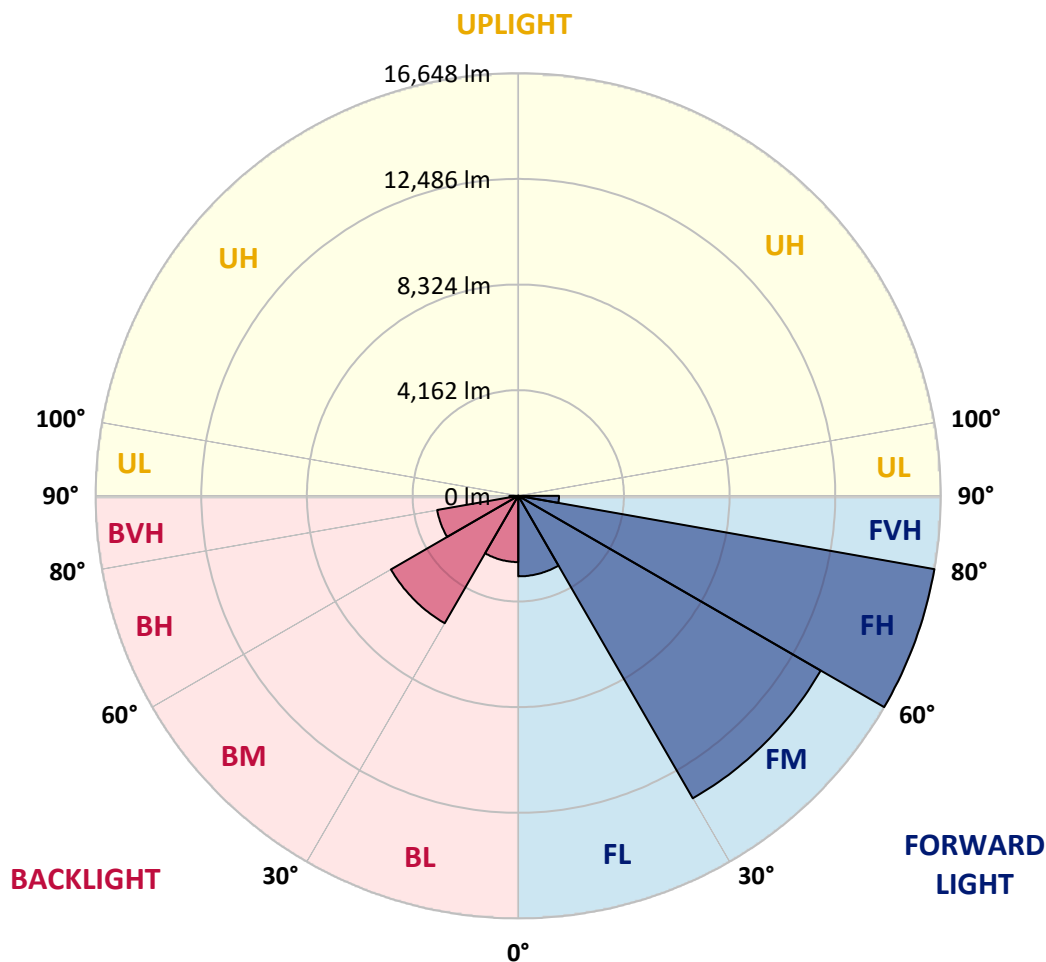
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3173.0	6.7			
FM	(30°-60°)	13759.5	29.2			
FH	(60°-80°)	16647.7	35.3			G5
FVH	(80°-90°)	1604.2	3.4			G5
BL	(0°-30°)	2610.8	5.5	B4/5000		
BM	(30°-60°)	5793.9	12.3	B4/8500		
BH	(60°-80°)	3241.3	6.9	B4/5000		G4/5000
BVH	(80°-90°)	343.2	0.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	6486.8	6486.8	6486.8	6486.8	6486.8	6486.8	6486.8	6486.8	6486.8	6486.8	6486.8
2.5°	6975.9	7002.3	7028.9	7066.5	7104.1	7126.5	7148.9	7160.1	7171.3	7166.3	7171.3
5°	7501.2	7593.5	7686.1	7777.7	7869.5	7919.3	7969.1	7999.2	8029.5	8052.5	8029.5
7.5°	8028.8	8179.2	8329.3	8464.4	8599.5	8680.9	8762.4	8806.4	8850.3	8871.4	8850.3
10°	8433.3	8611.0	8788.8	8947.3	9105.9	9201.9	9297.6	9340.3	9383.0	9399.1	9383.0
12.5°	8680.9	8873.6	9066.0	9209.4	9352.3	9422.0	9491.7	9515.1	9538.4	9541.0	9538.4
15°	8831.6	8997.9	9163.9	9253.7	9343.8	9346.4	9348.8	9323.9	9299.0	9269.7	9299.0
17.5°	8916.2	9028.5	9140.7	9142.5	9143.9	9043.2	8942.3	8850.0	8757.4	8692.2	8757.4
20°	9009.5	9048.6	9088.0	8969.7	8851.5	8629.0	8406.4	8244.4	8082.3	7982.8	8082.3
22.5°	9117.8	9066.5	9015.3	8770.3	8525.4	8198.1	7870.8	7668.1	7465.5	7355.5	7465.5
25°	9257.2	9095.4	8933.6	8561.7	8189.9	7792.4	7394.9	7181.8	6969.2	6865.1	6969.2
27.5°	9446.4	9157.1	8867.7	8375.1	7882.7	7442.1	7001.6	6792.0	6582.7	6484.3	6582.7
30°	9701.5	9270.2	8839.1	8232.7	7626.3	7167.3	6708.3	6513.9	6319.5	6227.9	6319.5
32.5°	10002.8	9412.1	8821.7	8135.6	7449.6	7018.2	6586.9	6434.2	6281.4	6215.5	6281.4
35°	10368.6	9645.8	8923.1	8208.3	7493.7	7194.0	6894.5	6858.9	6823.3	6817.8	6823.3
37.5°	10984.7	10134.4	9284.1	8634.4	7984.7	7965.4	7945.9	8108.7	8271.5	8356.1	8271.5
40°	11915.6	10991.0	10066.2	9583.0	9099.9	9441.0	9782.0	10177.7	10573.5	10770.6	10573.5
42.5°	13150.2	12232.8	11315.3	11037.0	10758.7	11502.4	12246.2	12966.0	13685.9	14108.6	13685.9
45°	14674.9	13850.7	13026.3	12903.6	12780.6	13972.2	15164.1	16346.9	17530.0	18248.1	17530.0
47.5°	16581.6	15779.9	14977.8	14952.9	14928.0	16647.0	18365.5	20097.3	21828.8	22845.6	21828.8
50°	19080.7	18090.3	17100.1	17104.3	17108.6	19323.9	21539.2	23825.1	26110.8	27492.9	26110.8
52.5°	21949.5	20750.2	19551.2	19429.9	19308.4	21954.7	24600.9	27429.1	30257.1	31913.6	30257.1
55°	25003.7	23818.8	22634.0	22161.3	21688.6	24633.8	27578.8	30950.3	34321.9	36292.1	34321.9
57.5°	27781.6	27136.5	26491.0	25542.9	24595.0	27568.8	30542.6	34361.5	38180.1	40623.2	38180.1
60°	29460.5	30462.7	31465.0	30287.7	29110.3	31924.5	34738.8	38827.5	42916.2	45556.7	42916.2
62.5°	28608.1	31346.3	34084.6	33952.0	33819.1	36397.1	38975.4	42865.5	46755.3	49195.9	46755.3
65°	26901.6	29471.7	32041.8	32550.3	33058.6	36334.9	39611.4	43383.4	47155.3	49233.3	47155.3
67.5°	24615.4	27059.8	29504.1	29742.5	29980.7	33394.4	36807.9	40596.0	44384.3	46012.2	44384.3
70°	21868.6	24527.2	27186.2	27292.8	27399.5	30452.2	33504.7	36764.8	40024.6	40929.4	40024.6
72.5°	18595.3	21646.3	24697.6	24774.1	24850.6	27239.0	29627.3	32069.0	34510.3	34602.0	34510.3
75°	14454.6	17612.4	20770.1	21053.6	21337.1	23195.3	25053.5	26772.3	28491.0	28030.6	28491.0
77.5°	10327.6	13275.2	16223.2	16628.9	17034.6	18447.2	19859.8	21078.8	22298.0	21506.4	22298.0
80°	6759.4	9239.2	11719.0	12223.3	12727.6	13794.4	14860.9	15501.1	16141.0	14867.8	16141.0
82.5°	3929.1	5624.5	7320.1	7883.5	8447.0	9181.3	9915.6	10182.7	10449.6	9448.9	10449.6
85°	1728.8	2628.6	3528.4	4007.5	4486.7	5090.2	5693.3	5844.9	5996.5	5194.9	5996.5
87.5°	535.2	837.6	1140.0	1407.3	1674.7	1976.4	2278.1	2291.1	2303.7	1934.1	2303.7
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°	6486.8	6486.8	6486.8	6486.8	6486.8	6486.8	6486.8	6486.8	6486.8	6486.8	6486.8
2.5°	7160.1	7148.9	7126.5	7104.1	7066.5	7028.9	7002.3	6975.9	6922.3	6868.8	6811.8
5°	7999.2	7969.1	7919.3	7869.5	7777.7	7686.1	7593.5	7501.2	7382.9	7264.7	7146.6
7.5°	8806.4	8762.4	8680.9	8599.5	8464.4	8329.3	8179.2	8028.8	7833.7	7638.7	7458.5
10°	9340.3	9297.6	9201.9	9105.9	8947.3	8788.8	8611.0	8433.3	8186.7	7940.0	7701.7
12.5°	9515.1	9491.7	9422.0	9352.3	9209.4	9066.0	8873.6	8680.9	8409.9	8139.1	7869.2
15°	9323.9	9348.8	9346.4	9343.8	9253.7	9163.9	8997.9	8831.6	8549.0	8266.5	7973.8
17.5°	8850.0	8942.3	9043.2	9143.9	9142.5	9140.7	9028.5	8916.2	8629.7	8343.2	8023.8
20°	8244.4	8406.4	8629.0	8851.5	8969.7	9088.0	9048.6	9009.5	8711.9	8413.9	8063.0
22.5°	7668.1	7870.8	8198.1	8525.4	8770.3	9015.3	9066.5	9117.8	8813.7	8509.2	8115.6
25°	7181.8	7394.9	7792.4	8189.9	8561.7	8933.6	9095.4	9257.2	8959.0	8661.0	8211.3
27.5°	6792.0	7001.6	7442.1	7882.7	8375.1	8867.7	9157.1	9446.4	9162.2	8877.6	8360.6
30°	6513.9	6708.3	7167.3	7626.3	8232.7	8839.1	9270.2	9701.5	9426.7	9152.2	8554.0
32.5°	6434.2	6586.9	7018.2	7449.6	8135.6	8821.7	9412.1	10002.8	9730.6	9458.8	8755.9
35°	6858.9	6894.5	7194.0	7493.7	8208.3	8923.1	9645.8	10368.6	10108.2	9847.7	8985.9
37.5°	8108.7	7945.9	7965.4	7984.7	8634.4	9284.1	10134.4	10984.7	10652.6	10320.6	9243.6
40°	10177.7	9782.0	9441.0	9099.9	9583.0	10066.2	10991.0	11915.6	11431.7	10947.8	9570.6
42.5°	12966.0	12246.2	11502.4	10758.7	11037.0	11315.3	12232.8	13150.2	12451.8	11753.4	9998.5
45°	16346.9	15164.1	13972.2	12780.6	12903.6	13026.3	13850.7	14674.9	13732.7	12790.6	10561.5
47.5°	20097.3	18365.5	16647.0	14928.0	14952.9	14977.8	15779.9	16581.6	15255.6	13929.3	11161.4
50°	23825.1	21539.2	19323.9	17108.6	17104.3	17100.1	18090.3	19080.7	17081.6	15082.4	11718.0
52.5°	27429.1	24600.9	21954.7	19308.4	19429.9	19551.2	20750.2	21949.5	18999.8	16050.2	12079.4
55°	30950.3	27578.8	24633.8	21688.6	22161.3	22634.0	23818.8	25003.7	20700.4	16397.4	11999.8
57.5°	34361.5	30542.6	27568.8	24595.0	25542.9	26491.0	27136.5	27781.6	21905.7	16029.8	11439.2
60°	38827.5	34738.8	31924.5	29110.3	30287.7	31465.0	30462.7	29460.5	22206.8	14952.9	10396.1
62.5°	42865.5	38975.4	36397.1	33819.1	33952.0	34084.6	31346.3	28608.1	20938.6	13269.2	8985.4
65°	43383.4	39611.4	36334.9	33058.6	32550.3	32041.8	29471.7	26901.6	19144.2	11386.7	7546.2
67.5°	40596.0	36807.9	33394.4	29980.7	29742.5	29504.1	27059.8	24615.4	17008.7	9402.1	6136.3
70°	36764.8	33504.7	30452.2	27399.5	27292.8	27186.2	24527.2	21868.6	14678.6	7488.6	4831.4
72.5°	32069.0	29627.3	27239.0	24850.6	24774.1	24697.6	21646.3	18595.3	12152.6	5710.2	3693.7
75°	26772.3	25053.5	23195.3	21337.1	21053.6	20770.1	17612.4	14454.6	9257.0	4059.3	2680.8
77.5°	21078.8	19859.8	18447.2	17034.6	16628.9	16223.2	13275.2	10327.6	6479.0	2630.6	1816.6
80°	15501.1	14860.9	13794.4	12727.6	12223.3	11719.0	9239.2	6759.4	4174.3	1589.4	1170.4
82.5°	10182.7	9915.6	9181.3	8447.0	7883.5	7320.1	5624.5	3929.1	2416.0	903.0	719.9
85°	5844.9	5693.3	5090.2	4486.7	4007.5	3528.4	2628.6	1728.8	1086.8	445.1	384.8
87.5°	2291.1	2278.1	1976.4	1674.7	1407.3	1140.0	837.6	535.2	356.0	176.7	159.6
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	6486.8	6486.8	6486.8	6486.8	6486.8	6486.8	6486.8	6486.8	6486.8	6486.8	6486.8
2.5°	6755.1	6697.9	6640.6	6585.8	6531.1	6478.1	6419.1	6371.3	6323.7	6280.7	6237.8
5°	7028.9	6910.1	6791.6	6681.0	6570.1	6465.6	6362.3	6272.2	6181.9	6106.1	6030.8
7.5°	7278.3	7102.8	6927.4	6772.8	6618.2	6475.5	6341.9	6222.0	6102.2	6002.6	5903.1
10°	7463.7	7250.7	7037.3	6854.7	6671.5	6495.5	6351.8	6225.4	6099.0	5999.4	5899.8
12.5°	7599.5	7348.0	7096.6	6889.7	6682.9	6498.0	6364.3	6260.8	6157.7	6091.5	6025.8
15°	7681.0	7391.6	7102.1	6862.7	6623.1	6418.3	6311.3	6261.7	6212.4	6221.4	6230.4
17.5°	7704.5	7368.4	7032.4	6744.4	6456.4	6215.5	6149.5	6167.6	6185.6	6294.1	6402.7
20°	7711.9	7304.7	6897.5	6540.5	6183.6	5903.1	5885.7	5970.3	6054.9	6243.4	6432.0
22.5°	7721.9	7226.6	6731.2	6301.3	5871.4	5552.1	5586.1	5711.4	5836.6	6051.7	6267.3
25°	7761.2	7149.4	6537.8	6034.3	5530.9	5203.6	5295.7	5440.1	5584.4	5777.8	5971.5
27.5°	7843.4	7097.8	6352.3	5790.0	5227.7	4929.8	5041.8	5181.2	5320.6	5479.6	5638.4
30°	7955.8	7073.7	6191.1	5585.9	4980.8	4730.7	4818.5	4929.0	5040.0	5171.9	5304.0
32.5°	8052.9	7043.8	6034.3	5410.0	4785.4	4583.8	4622.9	4688.3	4753.8	4859.1	4964.7
35°	8124.2	6987.6	5851.5	5236.9	4622.3	4454.3	4438.1	4456.1	4474.3	4554.7	4634.8
37.5°	8166.5	6891.3	5616.1	5033.4	4450.7	4303.8	4244.5	4224.6	4204.7	4262.5	4320.0
40°	8193.1	6758.5	5324.4	4790.4	4256.5	4123.3	4032.5	3987.4	3942.4	3983.9	4025.5
42.5°	8243.7	6621.7	5000.3	4522.3	4044.4	3921.6	3807.2	3747.4	3687.7	3721.6	3755.7
45°	8332.5	6494.5	4656.8	4237.6	3818.4	3693.9	3583.2	3524.9	3467.0	3495.2	3524.2
47.5°	8393.5	6389.4	4385.5	4012.3	3639.2	3478.6	3383.3	3334.5	3285.7	3312.6	3339.2
50°	8353.6	6274.9	4196.2	3862.7	3529.2	3318.0	3207.3	3164.0	3120.9	3162.7	3204.8
52.5°	8108.5	6081.5	4054.9	3764.1	3473.6	3230.9	3076.1	3033.3	2990.7	3053.7	3116.4
55°	7601.9	5760.9	3919.9	3692.7	3465.4	3239.6	3006.4	2938.7	2871.2	2960.6	3049.7
57.5°	6848.9	5308.9	3768.6	3608.0	3447.5	3248.3	2964.6	2866.0	2767.5	2863.5	2959.6
60°	5839.1	4722.0	3604.8	3478.6	3352.4	3221.0	2925.2	2797.5	2669.6	2754.0	2838.1
62.5°	4701.6	4019.5	3337.5	3253.6	3169.9	3153.8	2879.4	2719.6	2560.1	2613.6	2667.2
65°	3705.9	3387.5	3069.2	3029.6	2990.0	2992.0	2782.9	2613.1	2443.1	2463.8	2484.2
67.5°	2870.5	2780.1	2689.5	2711.7	2733.6	2728.1	2610.7	2469.2	2327.9	2321.4	2315.0
70°	2174.3	2200.2	2225.8	2328.4	2430.7	2430.7	2392.0	2291.5	2190.9	2168.6	2146.1
72.5°	1677.2	1755.1	1833.3	1978.7	2123.8	2148.2	2148.6	2079.7	2010.7	1977.9	1945.2
75°	1302.4	1373.0	1443.7	1606.5	1769.3	1881.8	1872.4	1819.4	1766.1	1734.7	1703.1
77.5°	1002.7	1050.7	1099.0	1257.1	1415.1	1600.5	1595.5	1553.0	1510.4	1478.6	1446.7
80°	751.7	771.6	791.5	925.5	1059.1	1280.6	1279.9	1244.4	1208.5	1181.8	1155.0
82.5°	537.2	540.7	544.6	643.2	741.8	930.9	941.4	923.9	906.5	887.6	868.7
85°	324.8	323.1	321.1	393.3	465.5	606.1	619.8	601.2	582.5	561.3	540.2
87.5°	142.4	140.6	138.9	168.3	197.9	256.4	273.8	266.3	258.9	254.9	250.9
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: P969461

CATALOG NUMBER: NAV-SB5D-830-U-SLL

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	6486.8	6486.8	6486.8	6486.8	6486.8	6486.8	6486.8	6486.8	6486.8	6486.8	6486.8
2.5°	6200.2	6162.7	6124.9	6087.3	6058.2	6028.7	6005.2	5981.5	5963.0	5944.6	5927.7
5°	5964.1	5897.3	5836.9	5776.1	5729.5	5682.8	5650.2	5617.5	5594.4	5571.3	5553.6
7.5°	5819.1	5735.1	5660.9	5587.0	5531.4	5476.2	5437.3	5398.5	5371.9	5345.5	5329.6
10°	5809.5	5718.9	5635.4	5552.1	5485.9	5419.4	5376.1	5332.3	5307.1	5282.0	5268.6
12.5°	5954.6	5883.9	5797.5	5711.4	5626.7	5542.2	5486.1	5430.1	5402.0	5374.1	5362.7
15°	6212.0	6193.6	6118.6	6043.7	5923.3	5802.7	5717.7	5632.5	5593.4	5554.6	5539.6
17.5°	6460.4	6517.9	6457.4	6397.1	6237.6	6078.0	5952.6	5827.1	5769.4	5711.4	5692.4
20°	6552.7	6673.5	6645.6	6617.5	6435.0	6252.8	6099.0	5945.4	5871.4	5797.3	5773.6
22.5°	6424.3	6581.3	6598.3	6614.9	6440.7	6266.4	6108.2	5949.6	5871.7	5793.5	5767.4
25°	6126.1	6280.7	6338.4	6395.9	6253.0	6110.4	5969.5	5829.2	5761.4	5694.0	5669.4
27.5°	5762.4	5886.4	5950.6	6015.1	5913.2	5811.7	5702.5	5593.1	5547.8	5502.3	5491.1
30°	5406.8	5509.8	5562.1	5614.3	5536.9	5459.3	5381.0	5302.4	5279.3	5255.9	5255.9
32.5°	5063.2	5162.0	5220.0	5278.2	5207.1	5135.7	5073.1	5010.7	4995.5	4980.4	4982.3
35°	4732.4	4830.2	4899.9	4969.6	4918.9	4868.3	4810.5	4753.0	4730.0	4707.0	4702.1
37.5°	4417.2	4514.8	4601.0	4687.1	4663.8	4640.3	4587.3	4534.0	4492.0	4450.1	4428.0
40°	4119.6	4213.7	4312.7	4412.0	4417.8	4423.3	4378.2	4333.2	4271.9	4211.2	4169.9
42.5°	3844.8	3934.2	4041.2	4148.2	4176.9	4205.5	4167.3	4129.5	4053.6	3977.7	3917.7
45°	3608.8	3693.4	3804.5	3915.5	3956.5	3997.6	3963.3	3929.1	3842.3	3755.7	3685.2
47.5°	3422.1	3504.8	3614.3	3723.8	3771.1	3818.4	3794.4	3770.6	3693.4	3616.3	3551.0
50°	3283.0	3360.9	3459.0	3557.1	3617.7	3678.5	3677.0	3676.0	3614.3	3552.5	3492.3
52.5°	3188.2	3259.6	3350.9	3442.6	3514.4	3586.4	3599.3	3612.3	3562.0	3511.8	3457.7
55°	3126.9	3204.0	3284.2	3364.2	3440.3	3516.7	3534.6	3552.5	3508.8	3464.9	3417.7
57.5°	3050.2	3140.8	3220.0	3299.4	3376.4	3453.0	3471.2	3489.3	3445.0	3400.7	3353.9
60°	2942.2	3046.2	3126.7	3207.3	3284.4	3361.6	3381.6	3401.5	3358.1	3315.1	3266.8
62.5°	2788.4	2909.9	2995.7	3081.6	3152.3	3223.0	3242.2	3261.3	3222.2	3183.1	3132.4
65°	2614.2	2744.3	2826.4	2908.6	2970.9	3033.1	3052.8	3072.1	3034.5	2997.0	2947.7
67.5°	2434.9	2555.1	2633.0	2710.7	2764.4	2818.2	2837.4	2856.4	2821.7	2787.4	2741.6
70°	2251.7	2357.2	2424.4	2491.7	2540.2	2588.7	2607.2	2625.5	2597.5	2569.4	2525.5
72.5°	2028.4	2111.3	2172.1	2232.8	2280.3	2327.9	2349.8	2371.6	2348.3	2324.9	2283.1
75°	1764.8	1826.6	1881.6	1936.5	1979.9	2023.1	2046.1	2069.0	2057.6	2046.1	2011.0
77.5°	1497.0	1547.0	1594.3	1641.6	1687.2	1732.5	1753.9	1775.3	1759.3	1742.9	1707.5
80°	1196.8	1238.4	1278.2	1318.0	1352.6	1386.9	1415.3	1443.7	1436.7	1430.0	1382.5
82.5°	865.2	861.7	847.8	833.8	907.5	981.2	1029.5	1077.8	1074.8	1071.6	1031.6
85°	522.2	504.1	465.5	426.9	495.8	565.1	624.7	684.5	679.6	674.6	643.2
87.5°	250.2	249.4	220.1	190.4	219.2	248.5	272.5	296.7	290.7	284.2	268.3
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: P969461

CATALOG NUMBER: NAV-SB5D-830-U-SLL

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	6486.8	6486.8	6486.8	6486.8	6486.8	6486.8	6486.8	6486.8	6486.8	6486.8	6486.8
2.5°	5910.6	5889.3	5910.6	5927.7	5944.6	5963.0	5981.5	6005.2	6028.7	6058.2	6087.3
5°	5535.9	5518.5	5535.9	5553.6	5571.3	5594.4	5617.5	5650.2	5682.8	5729.5	5776.1
7.5°	5313.9	5301.9	5313.9	5329.6	5345.5	5371.9	5398.5	5437.3	5476.2	5531.4	5587.0
10°	5255.2	5249.6	5255.2	5268.6	5282.0	5307.1	5332.3	5376.1	5419.4	5485.9	5552.1
12.5°	5351.2	5349.3	5351.2	5362.7	5374.1	5402.0	5430.1	5486.1	5542.2	5626.7	5711.4
15°	5524.7	5523.4	5524.7	5539.6	5554.6	5593.4	5632.5	5717.7	5802.7	5923.3	6043.7
17.5°	5673.3	5670.3	5673.3	5692.4	5711.4	5769.4	5827.1	5952.6	6078.0	6237.6	6397.1
20°	5749.9	5742.6	5749.9	5773.6	5797.3	5871.4	5945.4	6099.0	6252.8	6435.0	6617.5
22.5°	5741.2	5730.1	5741.2	5767.4	5793.5	5871.7	5949.6	6108.2	6266.4	6440.7	6614.9
25°	5645.0	5630.5	5645.0	5669.4	5694.0	5761.4	5829.2	5969.5	6110.4	6253.0	6395.9
27.5°	5479.9	5476.2	5479.9	5491.1	5502.3	5547.8	5593.1	5702.5	5811.7	5913.2	6015.1
30°	5255.9	5259.6	5255.9	5255.9	5255.9	5279.3	5302.4	5381.0	5459.3	5536.9	5614.3
32.5°	4984.6	4988.3	4984.6	4982.3	4980.4	4995.5	5010.7	5073.1	5135.7	5207.1	5278.2
35°	4697.1	4694.6	4697.1	4702.1	4707.0	4730.0	4753.0	4810.5	4868.3	4918.9	4969.6
37.5°	4405.9	4393.4	4405.9	4428.0	4450.1	4492.0	4534.0	4587.3	4640.3	4663.8	4687.1
40°	4129.0	4104.6	4129.0	4169.9	4211.2	4271.9	4333.2	4378.2	4423.3	4417.8	4412.0
42.5°	3857.7	3818.4	3857.7	3917.7	3977.7	4053.6	4129.5	4167.3	4205.5	4176.9	4148.2
45°	3614.8	3569.5	3614.8	3685.2	3755.7	3842.3	3929.1	3963.3	3997.6	3956.5	3915.5
47.5°	3486.1	3442.6	3486.1	3551.0	3616.3	3693.4	3770.6	3794.4	3818.4	3771.1	3723.8
50°	3432.1	3390.3	3432.1	3492.3	3552.5	3614.3	3676.0	3677.0	3678.5	3617.7	3557.1
52.5°	3403.9	3365.4	3403.9	3457.7	3511.8	3562.0	3612.3	3599.3	3586.4	3514.4	3442.6
55°	3370.3	3335.5	3370.3	3417.7	3464.9	3508.8	3552.5	3534.6	3516.7	3440.3	3364.2
57.5°	3306.9	3270.8	3306.9	3353.9	3400.7	3445.0	3489.3	3471.2	3453.0	3376.4	3299.4
60°	3218.5	3181.2	3218.5	3266.8	3315.1	3358.1	3401.5	3381.6	3361.6	3284.4	3207.3
62.5°	3081.6	3036.8	3081.6	3132.4	3183.1	3222.2	3261.3	3242.2	3223.0	3152.3	3081.6
65°	2898.6	2860.1	2898.6	2947.7	2997.0	3034.5	3072.1	3052.8	3033.1	2970.9	2908.6
67.5°	2695.7	2660.9	2695.7	2741.6	2787.4	2821.7	2856.4	2837.4	2818.2	2764.4	2710.7
70°	2481.7	2441.9	2481.7	2525.5	2569.4	2597.5	2625.5	2607.2	2588.7	2540.2	2491.7
72.5°	2241.5	2202.9	2241.5	2283.1	2324.9	2348.3	2371.6	2349.8	2327.9	2280.3	2232.8
75°	1975.9	1939.1	1975.9	2011.0	2046.1	2057.6	2069.0	2046.1	2023.1	1979.9	1936.5
77.5°	1672.2	1642.9	1672.2	1707.5	1742.9	1759.3	1775.3	1753.9	1732.5	1687.2	1641.6
80°	1334.7	1279.4	1334.7	1382.5	1430.0	1436.7	1443.7	1415.3	1386.9	1352.6	1318.0
82.5°	991.2	955.8	991.2	1031.6	1071.6	1074.8	1077.8	1029.5	981.2	907.5	833.8
85°	611.8	579.9	611.8	643.2	674.6	679.6	684.5	624.7	565.1	495.8	426.9
87.5°	251.9	236.5	251.9	268.3	284.2	290.7	296.7	272.5	248.5	219.2	190.4
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: P969461

CATALOG NUMBER: NAV-SB5D-830-U-SLL

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	6486.8	6486.8	6486.8	6486.8	6486.8	6486.8	6486.8	6486.8	6486.8	6486.8	6486.8
2.5°	6124.9	6162.7	6200.2	6237.8	6280.7	6323.7	6371.3	6419.1	6478.1	6531.1	6585.8
5°	5836.9	5897.3	5964.1	6030.8	6106.1	6181.9	6272.2	6362.3	6465.6	6570.1	6681.0
7.5°	5660.9	5735.1	5819.1	5903.1	6002.6	6102.2	6222.0	6341.9	6475.5	6618.2	6772.8
10°	5635.4	5718.9	5809.5	5899.8	5999.4	6099.0	6225.4	6351.8	6495.5	6671.5	6854.7
12.5°	5797.5	5883.9	5954.6	6025.8	6091.5	6157.7	6260.8	6364.3	6498.0	6682.9	6889.7
15°	6118.6	6193.6	6212.0	6230.4	6221.4	6212.4	6261.7	6311.3	6418.3	6623.1	6862.7
17.5°	6457.4	6517.9	6460.4	6402.7	6294.1	6185.6	6167.6	6149.5	6215.5	6456.4	6744.4
20°	6645.6	6673.5	6552.7	6432.0	6243.4	6054.9	5970.3	5885.7	5903.1	6183.6	6540.5
22.5°	6598.3	6581.3	6424.3	6267.3	6051.7	5836.6	5711.4	5586.1	5552.1	5871.4	6301.3
25°	6338.4	6280.7	6126.1	5971.5	5777.8	5584.4	5440.1	5295.7	5203.6	5530.9	6034.3
27.5°	5950.6	5886.4	5762.4	5638.4	5479.6	5320.6	5181.2	5041.8	4929.8	5227.7	5790.0
30°	5562.1	5509.8	5406.8	5304.0	5171.9	5040.0	4929.0	4818.5	4730.7	4980.8	5585.9
32.5°	5220.0	5162.0	5063.2	4964.7	4859.1	4753.8	4688.3	4622.9	4583.8	4785.4	5410.0
35°	4899.9	4830.2	4732.4	4634.8	4554.7	4474.3	4456.1	4438.1	4454.3	4622.3	5236.9
37.5°	4601.0	4514.8	4417.2	4320.0	4262.5	4204.7	4224.6	4244.5	4303.8	4450.7	5033.4
40°	4312.7	4213.7	4119.6	4025.5	3983.9	3942.4	3987.4	4032.5	4123.3	4256.5	4790.4
42.5°	4041.2	3934.2	3844.8	3755.7	3721.6	3687.7	3747.4	3807.2	3921.6	4044.4	4522.3
45°	3804.5	3693.4	3608.8	3524.2	3495.2	3467.0	3524.9	3583.2	3693.9	3818.4	4237.6
47.5°	3614.3	3504.8	3422.1	3339.2	3312.6	3285.7	3334.5	3383.3	3478.6	3639.2	4012.3
50°	3459.0	3360.9	3283.0	3204.8	3162.7	3120.9	3164.0	3207.3	3318.0	3529.2	3862.7
52.5°	3350.9	3259.6	3188.2	3116.4	3053.7	2990.7	3033.3	3076.1	3230.9	3473.6	3764.1
55°	3284.2	3204.0	3126.9	3049.7	2960.6	2871.2	2938.7	3006.4	3239.6	3465.4	3692.7
57.5°	3220.0	3140.8	3050.2	2959.6	2863.5	2767.5	2866.0	2964.6	3248.3	3447.5	3608.0
60°	3126.7	3046.2	2942.2	2838.1	2754.0	2669.6	2797.5	2925.2	3221.0	3352.4	3478.6
62.5°	2995.7	2909.9	2788.4	2667.2	2613.6	2560.1	2719.6	2879.4	3153.8	3169.9	3253.6
65°	2826.4	2744.3	2614.2	2484.2	2463.8	2443.1	2613.1	2782.9	2992.0	2990.0	3029.6
67.5°	2633.0	2555.1	2434.9	2315.0	2321.4	2327.9	2469.2	2610.7	2728.1	2733.6	2711.7
70°	2424.4	2357.2	2251.7	2146.1	2168.6	2190.9	2291.5	2392.0	2430.7	2430.7	2328.4
72.5°	2172.1	2111.3	2028.4	1945.2	1977.9	2010.7	2079.7	2148.6	2148.2	2123.8	1978.7
75°	1881.6	1826.6	1764.8	1703.1	1734.7	1766.1	1819.4	1872.4	1881.8	1769.3	1606.5
77.5°	1594.3	1547.0	1497.0	1446.7	1478.6	1510.4	1553.0	1595.5	1600.5	1415.1	1257.1
80°	1278.2	1238.4	1196.8	1155.0	1181.8	1208.5	1244.4	1279.9	1280.6	1059.1	925.5
82.5°	847.8	861.7	865.2	868.7	887.6	906.5	923.9	941.4	930.9	741.8	643.2
85°	465.5	504.1	522.2	540.2	561.3	582.5	601.2	619.8	606.1	465.5	393.3
87.5°	220.1	249.4	250.2	250.9	254.9	258.9	266.3	273.8	256.4	197.9	168.3
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: P969461

CATALOG NUMBER: NAV-SB5D-830-U-SLL

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	6486.8	6486.8	6486.8	6486.8	6486.8	6486.8	6486.8
2.5°	6640.6	6697.9	6755.1	6811.8	6868.8	6922.3	6975.9
5°	6791.6	6910.1	7028.9	7146.6	7264.7	7382.9	7501.2
7.5°	6927.4	7102.8	7278.3	7458.5	7638.7	7833.7	8028.8
10°	7037.3	7250.7	7463.7	7701.7	7940.0	8186.7	8433.3
12.5°	7096.6	7348.0	7599.5	7869.2	8139.1	8409.9	8680.9
15°	7102.1	7391.6	7681.0	7973.8	8266.5	8549.0	8831.6
17.5°	7032.4	7368.4	7704.5	8023.8	8343.2	8629.7	8916.2
20°	6897.5	7304.7	7711.9	8063.0	8413.9	8711.9	9009.5
22.5°	6731.2	7226.6	7721.9	8115.6	8509.2	8813.7	9117.8
25°	6537.8	7149.4	7761.2	8211.3	8661.0	8959.0	9257.2
27.5°	6352.3	7097.8	7843.4	8360.6	8877.6	9162.2	9446.4
30°	6191.1	7073.7	7955.8	8554.0	9152.2	9426.7	9701.5
32.5°	6034.3	7043.8	8052.9	8755.9	9458.8	9730.6	10002.8
35°	5851.5	6987.6	8124.2	8985.9	9847.7	10108.2	10368.6
37.5°	5616.1	6891.3	8166.5	9243.6	10320.6	10652.6	10984.7
40°	5324.4	6758.5	8193.1	9570.6	10947.8	11431.7	11915.6
42.5°	5000.3	6621.7	8243.7	9998.5	11753.4	12451.8	13150.2
45°	4656.8	6494.5	8332.5	10561.5	12790.6	13732.7	14674.9
47.5°	4385.5	6389.4	8393.5	11161.4	13929.3	15255.6	16581.6
50°	4196.2	6274.9	8353.6	11718.0	15082.4	17081.6	19080.7
52.5°	4054.9	6081.5	8108.5	12079.4	16050.2	18999.8	21949.5
55°	3919.9	5760.9	7601.9	11999.8	16397.4	20700.4	25003.7
57.5°	3768.6	5308.9	6848.9	11439.2	16029.8	21905.7	27781.6
60°	3604.8	4722.0	5839.1	10396.1	14952.9	22206.8	29460.5
62.5°	3337.5	4019.5	4701.6	8985.4	13269.2	20938.6	28608.1
65°	3069.2	3387.5	3705.9	7546.2	11386.7	19144.2	26901.6
67.5°	2689.5	2780.1	2870.5	6136.3	9402.1	17008.7	24615.4
70°	2225.8	2200.2	2174.3	4831.4	7488.6	14678.6	21868.6
72.5°	1833.3	1755.1	1677.2	3693.7	5710.2	12152.6	18595.3
75°	1443.7	1373.0	1302.4	2680.8	4059.3	9257.0	14454.6
77.5°	1099.0	1050.7	1002.7	1816.6	2630.6	6479.0	10327.6
80°	791.5	771.6	751.7	1170.4	1589.4	4174.3	6759.4
82.5°	544.6	540.7	537.2	719.9	903.0	2416.0	3929.1
85°	321.1	323.1	324.8	384.8	445.1	1086.8	1728.8
87.5°	138.9	140.6	142.4	159.6	176.7	356.0	535.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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