

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: P969430

Luminaire Tested: **NAV-SB5D-827-U-SLL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969430
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-827-U-SLL
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45652.5 lumens
Efficiency: N/A
Efficacy: 125.1 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

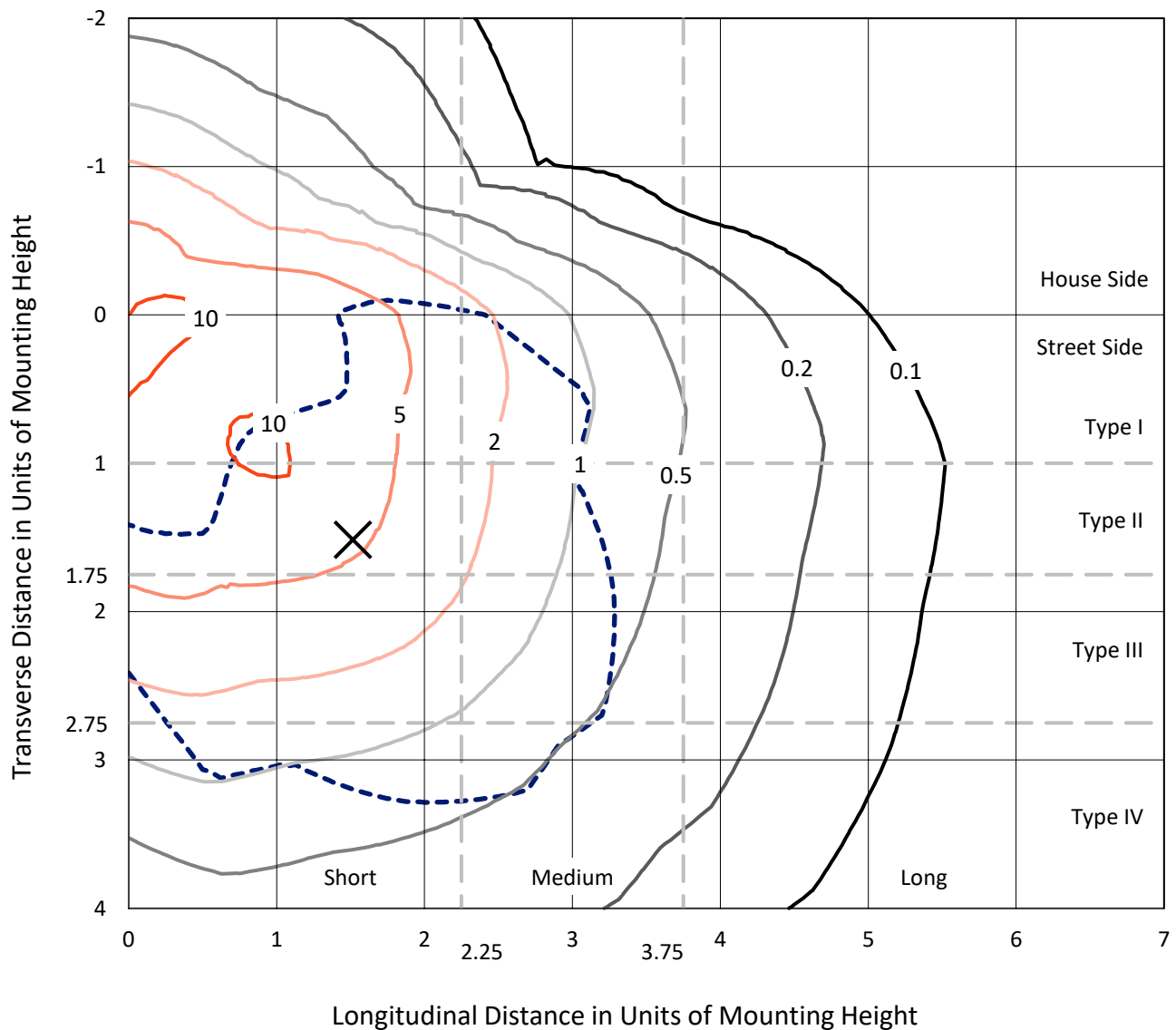


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

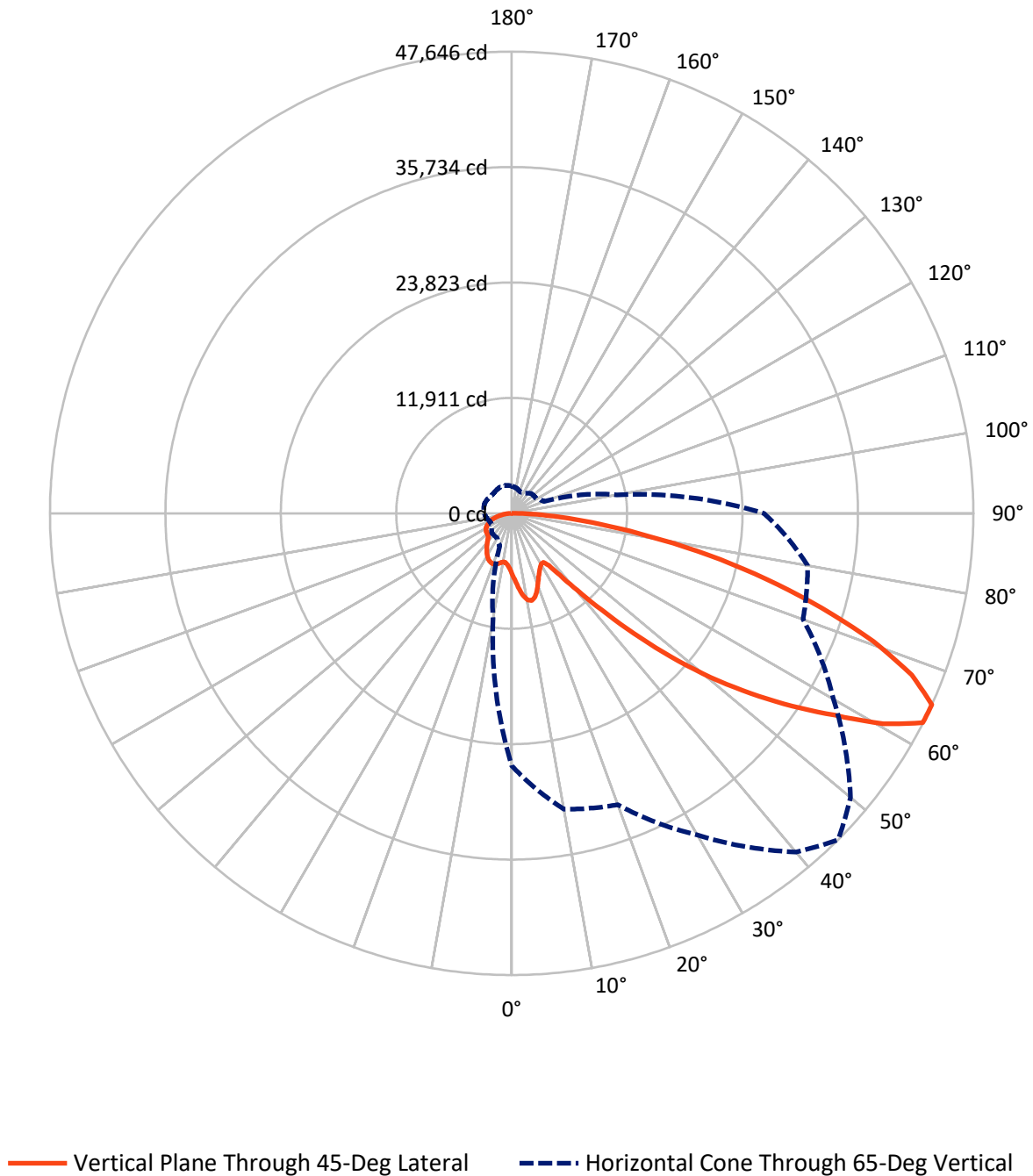


Based on 25 foot mounting height. Maximum calculated value = 13.9 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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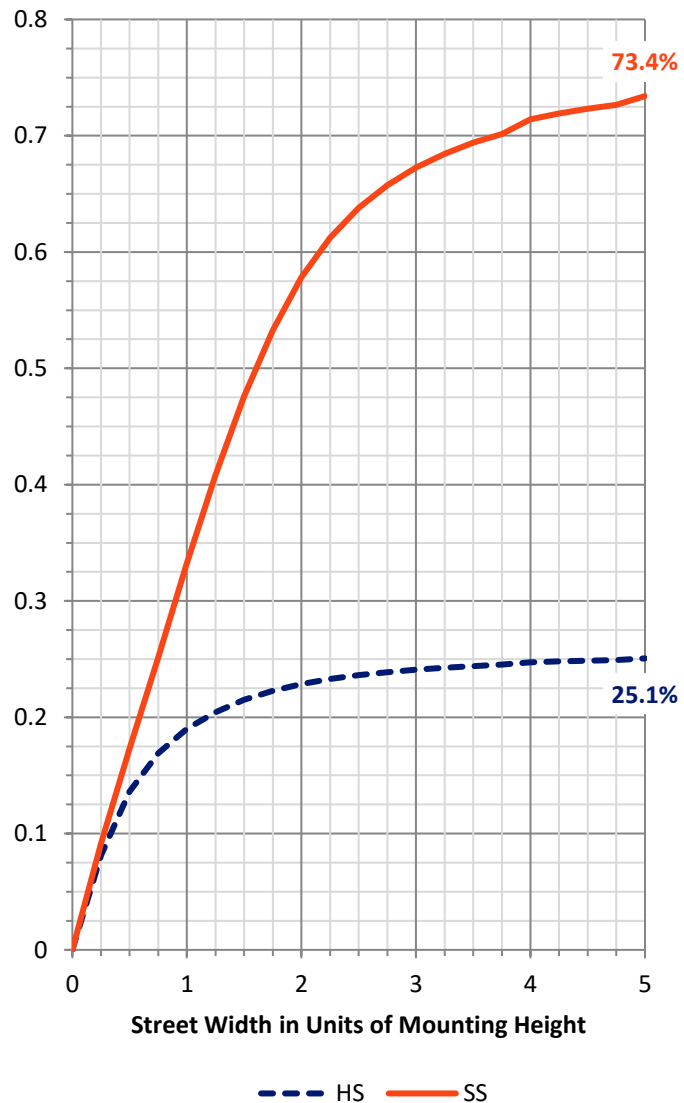
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11602.6	0.0	11602.6
	% Fixture	25.4	0.0	25.4
Street Side	Lumens	34049.9	0.0	34049.9
	% Fixture	74.6	0.0	74.6
Total	Lumens	45652.5	0.0	45652.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	622.7	1.4
10°-20°	1954.9	4.3
20°-30°	3019.6	6.6
30°-40°	3826.6	8.4
40°-50°	5771.5	12.6
50°-60°	9324.7	20.4
60°-70°	11624.8	25.5
70°-80°	7622.9	16.7
80°-90°	1884.6	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°	45652.5	100.0
0°-180°	45652.5	100.0

Coefficient of Utilization



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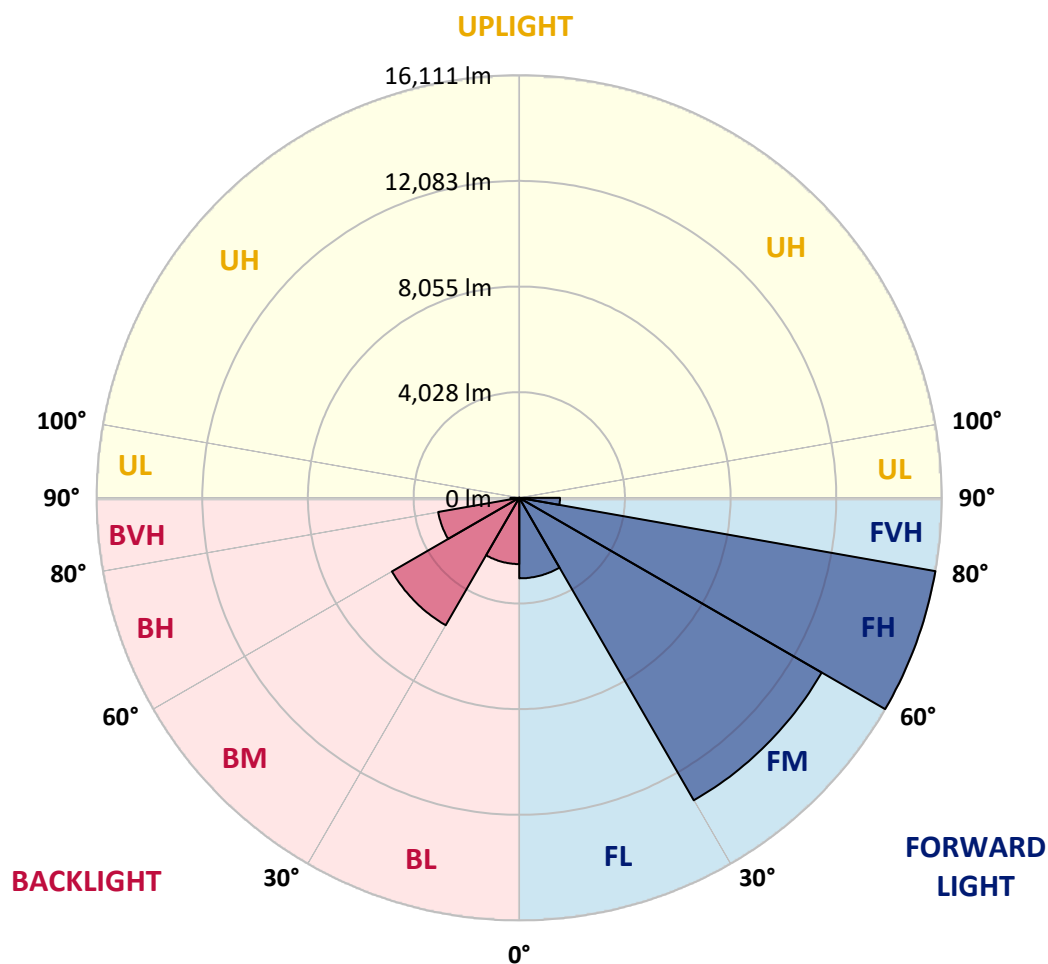
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3070.7	6.7			
FM	(30°-60°)	13315.8	29.2			
FH	(60°-80°)	16110.9	35.3			G5
FVH	(80°-90°)	1552.5	3.4			G5
BL	(0°-30°)	2526.6	5.5	B4/5000		
BM	(30°-60°)	5607.1	12.3	B4/8500		
BH	(60°-80°)	3136.8	6.9	B4/5000		G4/5000
BVH	(80°-90°)	332.1	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°	6277.6	6277.6	6277.6	6277.6	6277.6	6277.6	6277.6	6277.6	6277.6	6277.6	6277.6
2.5°	6751.0	6776.5	6802.3	6838.6	6875.0	6896.7	6918.3	6929.2	6940.1	6935.3	6940.1
5°	7259.3	7348.6	7438.2	7526.9	7615.7	7663.9	7712.1	7741.2	7770.6	7792.8	7770.6
7.5°	7769.9	7915.5	8060.7	8191.5	8322.3	8401.1	8479.8	8522.5	8564.9	8585.3	8564.9
10°	8161.4	8333.4	8505.3	8658.8	8812.2	8905.2	8997.8	9039.2	9080.4	9096.1	9080.4
12.5°	8401.1	8587.6	8773.7	8912.5	9050.8	9118.2	9185.6	9208.3	9230.9	9233.3	9230.9
15°	8546.8	8707.7	8868.4	8955.3	9042.6	9045.0	9047.4	9023.3	8999.2	8970.8	8999.2
17.5°	8628.7	8737.3	8846.0	8847.7	8849.1	8751.6	8654.0	8564.6	8475.0	8411.9	8475.0
20°	8719.1	8756.9	8794.9	8680.5	8566.0	8350.7	8135.3	7978.5	7821.7	7725.3	7821.7
22.5°	8823.8	8774.2	8724.6	8487.5	8250.5	7933.7	7617.0	7420.9	7224.8	7118.3	7224.8
25°	8958.7	8802.2	8645.6	8285.7	7925.8	7541.1	7156.3	6950.2	6744.5	6643.7	6744.5
27.5°	9141.8	8861.8	8581.7	8105.0	7628.6	7202.2	6775.8	6572.9	6370.4	6275.2	6370.4
30°	9388.7	8971.2	8554.0	7967.2	7380.4	6936.2	6492.0	6303.9	6115.8	6027.1	6115.8
32.5°	9680.2	9108.6	8537.1	7873.2	7209.3	6792.0	6374.5	6226.8	6078.9	6015.0	6078.9
35°	10034.3	9334.8	8635.4	7943.6	7252.0	6962.0	6672.2	6637.7	6603.3	6598.0	6603.3
37.5°	10630.5	9807.6	8984.7	8356.0	7727.3	7708.5	7689.8	7847.3	8004.8	8086.7	8004.8
40°	11531.5	10636.5	9741.6	9274.1	8806.5	9136.5	9466.5	9849.5	10232.6	10423.3	10232.6
42.5°	12726.3	11838.3	10950.4	10681.1	10411.7	11131.6	11851.4	12547.9	13244.6	13653.7	13244.6
45°	14201.7	13404.1	12606.3	12487.6	12368.6	13521.7	14675.0	15819.7	16964.7	17659.7	16964.7
47.5°	16046.9	15271.1	14494.8	14470.7	14446.7	16110.2	17773.4	19449.3	21124.9	22108.9	21124.9
50°	18465.5	17507.0	16548.7	16552.8	16556.9	18700.8	20844.7	23056.9	25268.9	26606.3	25268.9
52.5°	21241.7	20081.1	18920.8	18803.4	18685.9	21246.8	23807.7	26544.7	29281.5	30884.6	29281.5
55°	24197.5	23050.8	21904.1	21446.7	20989.2	23839.4	26689.5	29952.3	33215.2	35121.8	33215.2
57.5°	26885.7	26261.4	25636.8	24719.2	23801.9	26679.8	29557.7	33253.5	36949.0	39313.4	36949.0
60°	28510.6	29480.4	30450.5	29311.1	28171.7	30895.1	33618.7	37575.6	41532.4	44087.8	41532.4
62.5°	27685.6	30335.6	32985.6	32857.2	32728.6	35223.5	37718.7	41483.3	45247.7	47609.6	45247.7
65°	26034.3	28521.4	31008.6	31500.8	31992.7	35163.2	38334.1	41984.6	45634.7	47645.8	45634.7
67.5°	23821.7	26187.2	28552.8	28783.5	29014.1	32317.6	35621.0	39287.1	42953.2	44528.7	42953.2
70°	21163.5	23736.4	26309.6	26412.7	26516.0	29470.3	32424.3	35579.3	38734.0	39609.6	38734.0
72.5°	17995.7	20948.3	23901.2	23975.4	24049.3	26360.6	28672.0	31034.8	33397.6	33486.2	33397.6
75°	13988.5	17044.4	20100.4	20374.7	20649.1	22447.4	24245.7	25909.0	27572.3	27126.7	27572.3
77.5°	9994.6	12847.1	15700.0	16092.7	16485.4	17852.4	19219.5	20399.1	21579.0	20812.9	21579.0
80°	6541.3	8941.4	11341.1	11829.2	12317.2	13349.7	14381.7	15001.2	15620.6	14388.4	15620.6
82.5°	3802.4	5443.2	7084.1	7629.3	8174.6	8885.2	9595.8	9854.3	10112.5	9144.2	10112.5
85°	1673.0	2543.8	3414.6	3878.3	4342.0	4925.9	5509.7	5656.4	5803.0	5027.4	5803.0
87.5°	517.9	810.6	1103.3	1362.0	1620.7	1912.6	2204.7	2217.2	2229.5	1871.8	2229.5
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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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	6277.6	6277.6	6277.6	6277.6	6277.6	6277.6	6277.6	6277.6	6277.6	6277.6	6277.6
2.5°	6929.2	6918.3	6896.7	6875.0	6838.6	6802.3	6776.5	6751.0	6699.2	6647.3	6592.2
5°	7741.2	7712.1	7663.9	7615.7	7526.9	7438.2	7348.6	7259.3	7144.9	7030.4	6916.2
7.5°	8522.5	8479.8	8401.1	8322.3	8191.5	8060.7	7915.5	7769.9	7581.1	7392.4	7218.0
10°	9039.2	8997.8	8905.2	8812.2	8658.8	8505.3	8333.4	8161.4	7922.6	7683.9	7453.4
12.5°	9208.3	9185.6	9118.2	9050.8	8912.5	8773.7	8587.6	8401.1	8138.7	7876.6	7615.5
15°	9023.3	9047.4	9045.0	9042.6	8955.3	8868.4	8707.7	8546.8	8273.4	8000.0	7716.7
17.5°	8564.6	8654.0	8751.6	8849.1	8847.7	8846.0	8737.3	8628.7	8351.4	8074.1	7765.1
20°	7978.5	8135.3	8350.7	8566.0	8680.5	8794.9	8756.9	8719.1	8430.9	8142.6	7802.9
22.5°	7420.9	7617.0	7933.7	8250.5	8487.5	8724.6	8774.2	8823.8	8529.4	8234.8	7854.0
25°	6950.2	7156.3	7541.1	7925.8	8285.7	8645.6	8802.2	8958.7	8670.2	8381.8	7946.5
27.5°	6572.9	6775.8	7202.2	7628.6	8105.0	8581.7	8861.8	9141.8	8866.7	8591.3	8091.0
30°	6303.9	6492.0	6936.2	7380.4	7967.2	8554.0	8971.2	9388.7	9122.8	8857.0	8278.2
32.5°	6226.8	6374.5	6792.0	7209.3	7873.2	8537.1	9108.6	9680.2	9416.9	9153.9	8473.6
35°	6637.7	6672.2	6962.0	7252.0	7943.6	8635.4	9334.8	10034.3	9782.3	9530.1	8696.1
37.5°	7847.3	7689.8	7708.5	7727.3	8356.0	8984.7	9807.6	10630.5	10309.1	9987.8	8945.5
40°	9849.5	9466.5	9136.5	8806.5	9274.1	9741.6	10636.5	11531.5	11063.1	10594.8	9262.0
42.5°	12547.9	11851.4	11131.6	10411.7	10681.1	10950.4	11838.3	12726.3	12050.3	11374.3	9676.1
45°	15819.7	14675.0	13521.7	12368.6	12487.6	12606.3	13404.1	14201.7	13289.9	12378.2	10221.0
47.5°	19449.3	17773.4	16110.2	14446.7	14470.7	14494.8	15271.1	16046.9	14763.7	13480.3	10801.6
50°	23056.9	20844.7	18700.8	16556.9	16552.8	16548.7	17507.0	18465.5	16530.9	14596.0	11340.2
52.5°	26544.7	23807.7	21246.8	18685.9	18803.4	18920.8	20081.1	21241.7	18387.2	15532.6	11689.9
55°	29952.3	26689.5	23839.4	20989.2	21446.7	21904.1	23050.8	24197.5	20032.9	15868.6	11612.8
57.5°	33253.5	29557.7	26679.8	23801.9	24719.2	25636.8	26261.4	26885.7	21199.4	15512.9	11070.4
60°	37575.6	33618.7	30895.1	28171.7	29311.1	30450.5	29480.4	28510.6	21490.8	14470.7	10060.8
62.5°	41483.3	37718.7	35223.5	32728.6	32857.2	32985.6	30335.6	27685.6	20263.4	12841.4	8695.7
65°	41984.6	38334.1	35163.2	31992.7	31500.8	31008.6	28521.4	26034.3	18526.9	11019.6	7302.8
67.5°	39287.1	35621.0	32317.6	29014.1	28783.5	28552.8	26187.2	23821.7	16460.3	9098.9	5938.4
70°	35579.3	32424.3	29470.3	26516.0	26412.7	26309.6	23736.4	21163.5	14205.3	7247.2	4675.6
72.5°	31034.8	28672.0	26360.6	24049.3	23975.4	23901.2	20948.3	17995.7	11760.7	5526.0	3574.6
75°	25909.0	24245.7	22447.4	20649.1	20374.7	20100.4	17044.4	13988.5	8958.5	3928.4	2594.4
77.5°	20399.1	19219.5	17852.4	16485.4	16092.7	15700.0	12847.1	9994.6	6270.1	2545.7	1758.0
80°	15001.2	14381.7	13349.7	12317.2	11829.2	11341.1	8941.4	6541.3	4039.7	1538.1	1132.6
82.5°	9854.3	9595.8	8885.2	8174.6	7629.3	7084.1	5443.2	3802.4	2338.1	873.9	696.7
85°	5656.4	5509.7	4925.9	4342.0	3878.3	3414.6	2543.8	1673.0	1051.8	430.7	372.4
87.5°	2217.2	2204.7	1912.6	1620.7	1362.0	1103.3	810.6	517.9	344.5	171.1	154.4
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°	6277.6	6277.6	6277.6	6277.6	6277.6	6277.6	6277.6	6277.6	6277.6	6277.6	6277.6
2.5°	6537.2	6481.9	6426.4	6373.4	6320.5	6269.2	6212.1	6165.8	6119.9	6078.1	6036.7
5°	6802.3	6687.4	6572.7	6465.5	6358.3	6257.1	6157.2	6069.9	5982.5	5909.3	5836.2
7.5°	7043.6	6873.9	6704.0	6554.4	6404.8	6266.7	6137.4	6021.3	5905.4	5809.1	5712.7
10°	7223.1	7016.9	6810.4	6633.6	6456.4	6286.0	6147.0	6024.6	5902.3	5805.9	5709.6
12.5°	7354.4	7111.0	6867.8	6667.6	6467.4	6288.5	6159.1	6058.9	5959.1	5895.1	5831.4
15°	7433.4	7153.3	6873.1	6641.4	6409.6	6211.4	6107.8	6059.8	6012.1	6020.8	6029.5
17.5°	7456.1	7130.8	6805.6	6526.9	6248.2	6015.0	5951.3	5968.8	5986.1	6091.2	6196.2
20°	7463.2	7069.2	6675.1	6329.7	5984.2	5712.7	5695.8	5777.7	5859.6	6042.1	6224.6
22.5°	7472.9	6993.6	6514.2	6098.1	5682.1	5373.0	5406.1	5527.2	5648.4	5856.5	6065.1
25°	7511.0	6918.9	6327.0	5839.6	5352.5	5035.8	5124.9	5264.7	5404.4	5591.6	5779.0
27.5°	7590.4	6869.0	6147.5	5603.4	5059.2	4770.9	4879.2	5014.1	5149.0	5302.9	5456.7
30°	7699.4	6845.7	5991.4	5405.8	4820.3	4578.2	4663.1	4770.1	4877.6	5005.2	5132.9
32.5°	7793.3	6816.8	5839.6	5235.5	4631.2	4436.0	4473.8	4537.2	4600.5	4702.4	4804.6
35°	7862.2	6762.2	5662.8	5068.1	4473.3	4310.7	4295.1	4312.4	4330.0	4407.8	4485.4
37.5°	7903.2	6669.1	5435.0	4871.0	4307.2	4165.0	4107.7	4088.4	4069.1	4125.0	4180.7
40°	7928.9	6540.6	5152.7	4636.0	4119.3	3990.3	3902.4	3858.8	3815.3	3855.4	3895.7
42.5°	7977.8	6408.2	4839.0	4376.5	3914.0	3795.3	3684.5	3626.7	3568.8	3601.5	3634.5
45°	8063.8	6285.1	4506.6	4100.9	3695.2	3574.8	3467.6	3411.3	3355.1	3382.6	3410.5
47.5°	8122.8	6183.4	4244.0	3882.9	3521.8	3366.4	3274.2	3227.0	3179.8	3205.8	3231.5
50°	8084.3	6072.6	4060.9	3738.2	3415.3	3211.1	3103.9	3062.0	3020.3	3060.8	3101.4
52.5°	7847.0	5885.4	3924.1	3642.7	3361.6	3126.8	2976.9	2935.5	2894.3	2955.3	3016.0
55°	7356.8	5575.2	3793.5	3573.7	3353.7	3135.2	2909.5	2844.0	2778.7	2865.2	2951.4
57.5°	6628.1	5137.7	3647.1	3491.7	3336.4	3143.6	2869.0	2773.6	2678.2	2771.2	2864.2
60°	5650.8	4569.7	3488.6	3366.4	3244.3	3117.1	2830.9	2707.3	2583.5	2665.2	2746.6
62.5°	4550.0	3889.9	3229.9	3148.7	3067.7	3052.0	2786.7	2632.0	2477.5	2529.4	2581.2
65°	3586.4	3278.3	2970.1	2931.9	2893.6	2895.5	2693.2	2528.9	2364.4	2384.4	2404.1
67.5°	2778.0	2690.5	2602.8	2624.3	2645.4	2640.2	2526.4	2389.7	2252.8	2246.6	2240.2
70°	2104.2	2129.2	2154.0	2253.3	2352.3	2352.3	2315.0	2217.6	2120.3	2098.7	2077.0
72.5°	1623.1	1698.5	1774.2	1914.8	2055.2	2078.9	2079.4	2012.7	1946.0	1914.1	1882.5
75°	1260.3	1328.7	1397.2	1554.7	1712.3	1821.1	1812.0	1760.6	1709.1	1678.7	1648.2
77.5°	970.3	1016.8	1063.5	1216.5	1369.5	1548.9	1544.1	1503.0	1461.8	1430.9	1400.0
80°	727.4	746.7	766.0	895.6	1025.0	1239.4	1238.6	1204.2	1169.5	1143.8	1117.8
82.5°	519.9	523.3	527.1	622.5	717.8	901.0	911.0	894.2	877.3	859.1	840.7
85°	314.4	312.6	310.8	380.6	450.5	586.6	599.8	581.8	563.6	543.2	522.8
87.5°	137.8	136.1	134.4	162.9	191.5	248.2	265.0	257.8	250.5	246.7	242.8
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: P969430

CATALOG NUMBER: NAV-SB5D-827-U-SLL

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	6277.6	6277.6	6277.6	6277.6	6277.6	6277.6	6277.6	6277.6	6277.6	6277.6	6277.6
2.5°	6000.3	5964.0	5927.4	5891.0	5862.8	5834.4	5811.4	5788.6	5770.7	5752.9	5736.6
5°	5771.8	5707.2	5648.7	5589.8	5544.8	5499.5	5468.0	5436.4	5414.0	5391.6	5374.5
7.5°	5631.6	5550.2	5478.3	5406.8	5353.1	5299.6	5262.0	5224.4	5198.7	5173.2	5157.7
10°	5622.1	5534.5	5453.7	5373.0	5309.0	5244.7	5202.8	5160.4	5136.1	5111.7	5098.7
12.5°	5762.5	5694.2	5610.5	5527.2	5445.3	5363.4	5309.2	5255.1	5227.8	5200.8	5189.8
15°	6011.6	5993.8	5921.3	5848.9	5732.2	5615.7	5533.3	5450.8	5413.0	5375.5	5361.1
17.5°	6252.1	6307.7	6249.2	6190.9	6036.4	5882.1	5760.7	5639.2	5583.4	5527.2	5509.0
20°	6341.5	6458.3	6431.3	6404.1	6227.5	6051.2	5902.3	5753.6	5682.1	5610.3	5587.5
22.5°	6217.1	6369.1	6385.5	6401.6	6233.0	6064.4	5911.2	5757.7	5682.4	5606.7	5581.4
25°	5928.6	6078.1	6134.0	6189.7	6051.4	5913.4	5777.0	5641.2	5575.7	5510.4	5486.5
27.5°	5576.6	5696.5	5758.8	5821.1	5722.6	5624.3	5518.6	5412.8	5369.0	5324.9	5314.0
30°	5232.4	5332.2	5382.7	5433.3	5358.4	5283.3	5207.6	5131.5	5109.0	5086.4	5086.4
32.5°	4899.9	4995.5	5051.7	5108.1	5039.2	4970.0	4909.5	4849.2	4834.4	4819.8	4821.7
35°	4579.8	4674.5	4742.0	4809.4	4760.2	4711.3	4655.4	4599.8	4577.4	4555.2	4550.4
37.5°	4274.9	4369.3	4452.6	4535.9	4513.3	4490.7	4439.4	4387.8	4347.1	4306.6	4285.2
40°	3986.7	4077.8	4173.7	4269.7	4275.3	4280.6	4237.0	4193.4	4134.1	4075.4	4035.4
42.5°	3720.7	3807.3	3910.9	4014.4	4042.2	4069.9	4033.0	3996.4	3922.9	3849.4	3791.4
45°	3492.5	3574.4	3681.8	3789.2	3829.0	3868.7	3835.4	3802.4	3718.4	3634.5	3566.4
47.5°	3311.8	3391.7	3497.7	3603.7	3649.5	3695.2	3672.2	3649.0	3574.4	3499.7	3436.5
50°	3177.1	3252.5	3347.4	3442.4	3501.1	3559.9	3558.4	3557.5	3497.7	3438.0	3379.7
52.5°	3085.4	3154.4	3242.9	3331.6	3401.2	3470.8	3483.3	3495.8	3447.2	3398.5	3346.2
55°	3026.1	3100.7	3178.3	3255.6	3329.3	3403.3	3420.6	3438.0	3395.6	3353.2	3307.5
57.5°	2951.9	3039.5	3116.2	3193.0	3267.4	3341.6	3359.2	3376.8	3333.9	3291.1	3245.8
60°	2847.3	2948.0	3025.8	3103.9	3178.5	3253.2	3272.5	3291.8	3249.9	3208.1	3161.4
62.5°	2698.4	2816.0	2899.1	2982.2	3050.6	3119.1	3137.6	3156.2	3118.4	3080.5	3031.3
65°	2529.8	2655.8	2735.3	2814.9	2875.0	2935.3	2954.3	2973.1	2936.7	2900.3	2852.6
67.5°	2356.4	2472.7	2548.1	2623.3	2675.4	2727.3	2745.9	2764.2	2730.7	2697.5	2653.2
70°	2179.0	2281.2	2346.2	2411.3	2458.3	2505.3	2523.0	2540.9	2513.7	2486.4	2444.1
72.5°	1963.0	2043.2	2102.0	2160.8	2206.8	2252.8	2274.0	2295.2	2272.5	2249.9	2209.5
75°	1708.0	1767.6	1820.9	1874.1	1916.0	1958.0	1980.1	2002.2	1991.2	1980.1	1946.2
77.5°	1448.7	1497.1	1542.9	1588.6	1632.7	1676.6	1697.3	1718.0	1702.6	1686.7	1652.5
80°	1158.2	1198.4	1237.0	1275.5	1309.0	1342.2	1369.7	1397.2	1390.4	1384.0	1337.9
82.5°	837.3	833.9	820.5	807.0	788.3	749.6	796.3	1043.0	1040.2	1037.0	998.2
85°	505.4	487.8	450.5	413.2	479.9	546.8	604.6	662.5	657.6	652.8	622.5
87.5°	242.1	241.4	213.0	184.3	212.2	240.4	263.7	287.1	281.4	275.1	259.6
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: P969430

CATALOG NUMBER: NAV-SB5D-827-U-SLL

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	6277.6	6277.6	6277.6	6277.6	6277.6	6277.6	6277.6	6277.6	6277.6	6277.6	6277.6
2.5°	5719.9	5699.5	5719.9	5736.6	5752.9	5770.7	5788.6	5811.4	5834.4	5862.8	5891.0
5°	5357.4	5340.6	5357.4	5374.5	5391.6	5414.0	5436.4	5468.0	5499.5	5544.8	5589.8
7.5°	5142.5	5130.9	5142.5	5157.7	5173.2	5198.7	5224.4	5262.0	5299.6	5353.1	5406.8
10°	5085.6	5080.4	5085.6	5098.7	5111.7	5136.1	5160.4	5202.8	5244.7	5309.0	5373.0
12.5°	5178.7	5176.8	5178.7	5189.8	5200.8	5227.8	5255.1	5309.2	5363.4	5445.3	5527.2
15°	5346.6	5345.4	5346.6	5361.1	5375.5	5413.0	5450.8	5533.3	5615.7	5732.2	5848.9
17.5°	5490.4	5487.4	5490.4	5509.0	5527.2	5583.4	5639.2	5760.7	5882.1	6036.4	6190.9
20°	5564.6	5557.3	5564.6	5587.5	5610.3	5682.1	5753.6	5902.3	6051.2	6227.5	6404.1
22.5°	5556.1	5545.2	5556.1	5581.4	5606.7	5682.4	5757.7	5911.2	6064.4	6233.0	6401.6
25°	5462.9	5448.9	5462.9	5486.5	5510.4	5575.7	5641.2	5777.0	5913.4	6051.4	6189.7
27.5°	5303.2	5299.6	5303.2	5314.0	5324.9	5369.0	5412.8	5518.6	5624.3	5722.6	5821.1
30°	5086.4	5090.0	5086.4	5086.4	5086.4	5109.0	5131.5	5207.6	5283.3	5358.4	5433.3
32.5°	4823.9	4827.4	4823.9	4821.7	4819.8	4834.4	4849.2	4909.5	4970.0	5039.2	5108.1
35°	4545.6	4543.2	4545.6	4550.4	4555.2	4577.4	4599.8	4655.4	4711.3	4760.2	4809.4
37.5°	4263.8	4251.7	4263.8	4285.2	4306.6	4347.1	4387.8	4439.4	4490.7	4513.3	4535.9
40°	3995.9	3972.3	3995.9	4035.4	4075.4	4134.1	4193.4	4237.0	4280.6	4275.3	4269.7
42.5°	3733.4	3695.2	3733.4	3791.4	3849.4	3922.9	3996.4	4033.0	4069.9	4042.2	4014.4
45°	3498.2	3454.4	3498.2	3566.4	3634.5	3718.4	3802.4	3835.4	3868.7	3829.0	3789.2
47.5°	3373.7	3331.6	3373.7	3436.5	3499.7	3574.4	3649.0	3672.2	3695.2	3649.5	3603.7
50°	3321.4	3280.9	3321.4	3379.7	3438.0	3497.7	3557.5	3558.4	3559.9	3501.1	3442.4
52.5°	3294.1	3256.8	3294.1	3346.2	3398.5	3447.2	3495.8	3483.3	3470.8	3401.2	3331.6
55°	3261.7	3227.9	3261.7	3307.5	3353.2	3395.6	3438.0	3420.6	3403.3	3329.3	3255.6
57.5°	3200.3	3165.3	3200.3	3245.8	3291.1	3333.9	3376.8	3359.2	3341.6	3267.4	3193.0
60°	3114.7	3078.6	3114.7	3161.4	3208.1	3249.9	3291.8	3272.5	3253.2	3178.5	3103.9
62.5°	2982.2	2938.9	2982.2	3031.3	3080.5	3118.4	3156.2	3137.6	3119.1	3050.6	2982.2
65°	2805.2	2767.8	2805.2	2852.6	2900.3	2936.7	2973.1	2954.3	2935.3	2875.0	2814.9
67.5°	2608.8	2575.1	2608.8	2653.2	2697.5	2730.7	2764.2	2745.9	2727.3	2675.4	2623.3
70°	2401.7	2363.1	2401.7	2444.1	2486.4	2513.7	2540.9	2523.0	2505.3	2458.3	2411.3
72.5°	2169.2	2131.9	2169.2	2209.5	2249.9	2272.5	2295.2	2274.0	2252.8	2206.8	2160.8
75°	1912.2	1876.6	1912.2	1946.2	1980.1	1991.2	2002.2	1980.1	1958.0	1916.0	1874.1
77.5°	1618.3	1589.9	1618.3	1652.5	1686.7	1702.6	1718.0	1697.3	1676.6	1632.7	1588.6
80°	1291.7	1238.2	1291.7	1337.9	1384.0	1390.4	1397.2	1369.7	1342.2	1309.0	1275.5
82.5°	959.2	925.1	959.2	998.2	1037.0	1040.2	1043.0	996.3	949.6	878.3	807.0
85°	592.1	561.3	592.1	622.5	652.8	657.6	662.5	604.6	546.8	479.9	413.2
87.5°	243.7	228.9	243.7	259.6	275.1	281.4	287.1	263.7	240.4	212.2	184.3
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: P969430

CATALOG NUMBER: NAV-SB5D-827-U-SLL

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	6277.6	6277.6	6277.6	6277.6	6277.6	6277.6	6277.6	6277.6	6277.6	6277.6	6277.6
2.5°	5927.4	5964.0	6000.3	6036.7	6078.1	6119.9	6165.8	6212.1	6269.2	6320.5	6373.4
5°	5648.7	5707.2	5771.8	5836.2	5909.3	5982.5	6069.9	6157.2	6257.1	6358.3	6465.5
7.5°	5478.3	5550.2	5631.6	5712.7	5809.1	5905.4	6021.3	6137.4	6266.7	6404.8	6554.4
10°	5453.7	5534.5	5622.1	5709.6	5805.9	5902.3	6024.6	6147.0	6286.0	6456.4	6633.6
12.5°	5610.5	5694.2	5762.5	5831.4	5895.1	5959.1	6058.9	6159.1	6288.5	6467.4	6667.6
15°	5921.3	5993.8	6011.6	6029.5	6020.8	6012.1	6059.8	6107.8	6211.4	6409.6	6641.4
17.5°	6249.2	6307.7	6252.1	6196.2	6091.2	5986.1	5968.8	5951.3	6015.0	6248.2	6526.9
20°	6431.3	6458.3	6341.5	6224.6	6042.1	5859.6	5777.7	5695.8	5712.7	5984.2	6329.7
22.5°	6385.5	6369.1	6217.1	6065.1	5856.5	5648.4	5527.2	5406.1	5373.0	5682.1	6098.1
25°	6134.0	6078.1	5928.6	5779.0	5591.6	5404.4	5264.7	5124.9	5035.8	5352.5	5839.6
27.5°	5758.8	5696.5	5576.6	5456.7	5302.9	5149.0	5014.1	4879.2	4770.9	5059.2	5603.4
30°	5382.7	5332.2	5232.4	5132.9	5005.2	4877.6	4770.1	4663.1	4578.2	4820.3	5405.8
32.5°	5051.7	4995.5	4899.9	4804.6	4702.4	4600.5	4537.2	4473.8	4436.0	4631.2	5235.5
35°	4742.0	4674.5	4579.8	4485.4	4407.8	4330.0	4312.4	4295.1	4310.7	4473.3	5068.1
37.5°	4452.6	4369.3	4274.9	4180.7	4125.0	4069.1	4088.4	4107.7	4165.0	4307.2	4871.0
40°	4173.7	4077.8	3986.7	3895.7	3855.4	3815.3	3858.8	3902.4	3990.3	4119.3	4636.0
42.5°	3910.9	3807.3	3720.7	3634.5	3601.5	3568.8	3626.7	3684.5	3795.3	3914.0	4376.5
45°	3681.8	3574.4	3492.5	3410.5	3382.6	3355.1	3411.3	3467.6	3574.8	3695.2	4100.9
47.5°	3497.7	3391.7	3311.8	3231.5	3205.8	3179.8	3227.0	3274.2	3366.4	3521.8	3882.9
50°	3347.4	3252.5	3177.1	3101.4	3060.8	3020.3	3062.0	3103.9	3211.1	3415.3	3738.2
52.5°	3242.9	3154.4	3085.4	3016.0	2955.3	2894.3	2935.5	2976.9	3126.8	3361.6	3642.7
55°	3178.3	3100.7	3026.1	2951.4	2865.2	2778.7	2844.0	2909.5	3135.2	3353.7	3573.7
57.5°	3116.2	3039.5	2951.9	2864.2	2771.2	2678.2	2773.6	2869.0	3143.6	3336.4	3491.7
60°	3025.8	2948.0	2847.3	2746.6	2665.2	2583.5	2707.3	2830.9	3117.1	3244.3	3366.4
62.5°	2899.1	2816.0	2698.4	2581.2	2529.4	2477.5	2632.0	2786.7	3052.0	3067.7	3148.7
65°	2735.3	2655.8	2529.8	2404.1	2384.4	2364.4	2528.9	2693.2	2895.5	2893.6	2931.9
67.5°	2548.1	2472.7	2356.4	2240.2	2246.6	2252.8	2389.7	2526.4	2640.2	2645.4	2624.3
70°	2346.2	2281.2	2179.0	2077.0	2098.7	2120.3	2217.6	2315.0	2352.3	2352.3	2253.3
72.5°	2102.0	2043.2	1963.0	1882.5	1914.1	1946.0	2012.7	2079.4	2078.9	2055.2	1914.8
75°	1820.9	1767.6	1708.0	1648.2	1678.7	1709.1	1760.6	1812.0	1821.1	1712.3	1554.7
77.5°	1542.9	1497.1	1448.7	1400.0	1430.9	1461.8	1503.0	1544.1	1548.9	1369.5	1216.5
80°	1237.0	1198.4	1158.2	1117.8	1143.8	1169.5	1204.2	1238.6	1239.4	1025.0	895.6
82.5°	820.5	833.9	837.3	840.7	859.1	877.3	894.2	911.0	901.0	717.8	622.5
85°	450.5	487.8	505.4	522.8	543.2	563.6	581.8	599.8	586.6	450.5	380.6
87.5°	213.0	241.4	242.1	242.8	246.7	250.5	257.8	265.0	248.2	191.5	162.9
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: P969430

CATALOG NUMBER: NAV-SB5D-827-U-SLL

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	6277.6	6277.6	6277.6	6277.6	6277.6	6277.6	6277.6
2.5°	6426.4	6481.9	6537.2	6592.2	6647.3	6699.2	6751.0
5°	6572.7	6687.4	6802.3	6916.2	7030.4	7144.9	7259.3
7.5°	6704.0	6873.9	7043.6	7218.0	7392.4	7581.1	7769.9
10°	6810.4	7016.9	7223.1	7453.4	7683.9	7922.6	8161.4
12.5°	6867.8	7111.0	7354.4	7615.5	7876.6	8138.7	8401.1
15°	6873.1	7153.3	7433.4	7716.7	8000.0	8273.4	8546.8
17.5°	6805.6	7130.8	7456.1	7765.1	8074.1	8351.4	8628.7
20°	6675.1	7069.2	7463.2	7802.9	8142.6	8430.9	8719.1
22.5°	6514.2	6993.6	7472.9	7854.0	8234.8	8529.4	8823.8
25°	6327.0	6918.9	7511.0	7946.5	8381.8	8670.2	8958.7
27.5°	6147.5	6869.0	7590.4	8091.0	8591.3	8866.7	9141.8
30°	5991.4	6845.7	7699.4	8278.2	8857.0	9122.8	9388.7
32.5°	5839.6	6816.8	7793.3	8473.6	9153.9	9416.9	9680.2
35°	5662.8	6762.2	7862.2	8696.1	9530.1	9782.3	10034.3
37.5°	5435.0	6669.1	7903.2	8945.5	9987.8	10309.1	10630.5
40°	5152.7	6540.6	7928.9	9262.0	10594.8	11063.1	11531.5
42.5°	4839.0	6408.2	7977.8	9676.1	11374.3	12050.3	12726.3
45°	4506.6	6285.1	8063.8	10221.0	12378.2	13289.9	14201.7
47.5°	4244.0	6183.4	8122.8	10801.6	13480.3	14763.7	16046.9
50°	4060.9	6072.6	8084.3	11340.2	14596.0	16530.9	18465.5
52.5°	3924.1	5885.4	7847.0	11689.9	15532.6	18387.2	21241.7
55°	3793.5	5575.2	7356.8	11612.8	15868.6	20032.9	24197.5
57.5°	3647.1	5137.7	6628.1	11070.4	15512.9	21199.4	26885.7
60°	3488.6	4569.7	5650.8	10060.8	14470.7	21490.8	28510.6
62.5°	3229.9	3889.9	4550.0	8695.7	12841.4	20263.4	27685.6
65°	2970.1	3278.3	3586.4	7302.8	11019.6	18526.9	26034.3
67.5°	2602.8	2690.5	2778.0	5938.4	9098.9	16460.3	23821.7
70°	2154.0	2129.2	2104.2	4675.6	7247.2	14205.3	21163.5
72.5°	1774.2	1698.5	1623.1	3574.6	5526.0	11760.7	17995.7
75°	1397.2	1328.7	1260.3	2594.4	3928.4	8958.5	13988.5
77.5°	1063.5	1016.8	970.3	1758.0	2545.7	6270.1	9994.6
80°	766.0	746.7	727.4	1132.6	1538.1	4039.7	6541.3
82.5°	527.1	523.3	519.9	696.7	873.9	2338.1	3802.4
85°	310.8	312.6	314.4	372.4	430.7	1051.8	1673.0
87.5°	134.4	136.1	137.8	154.4	171.1	344.5	517.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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