

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: P966828

Luminaire Tested: **NAV-SB4C-830-U-SLR**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P966828
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-SB4C-830-U-SLR
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27544.8 lumens
Efficiency: N/A
Efficacy: 137.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 200.7
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

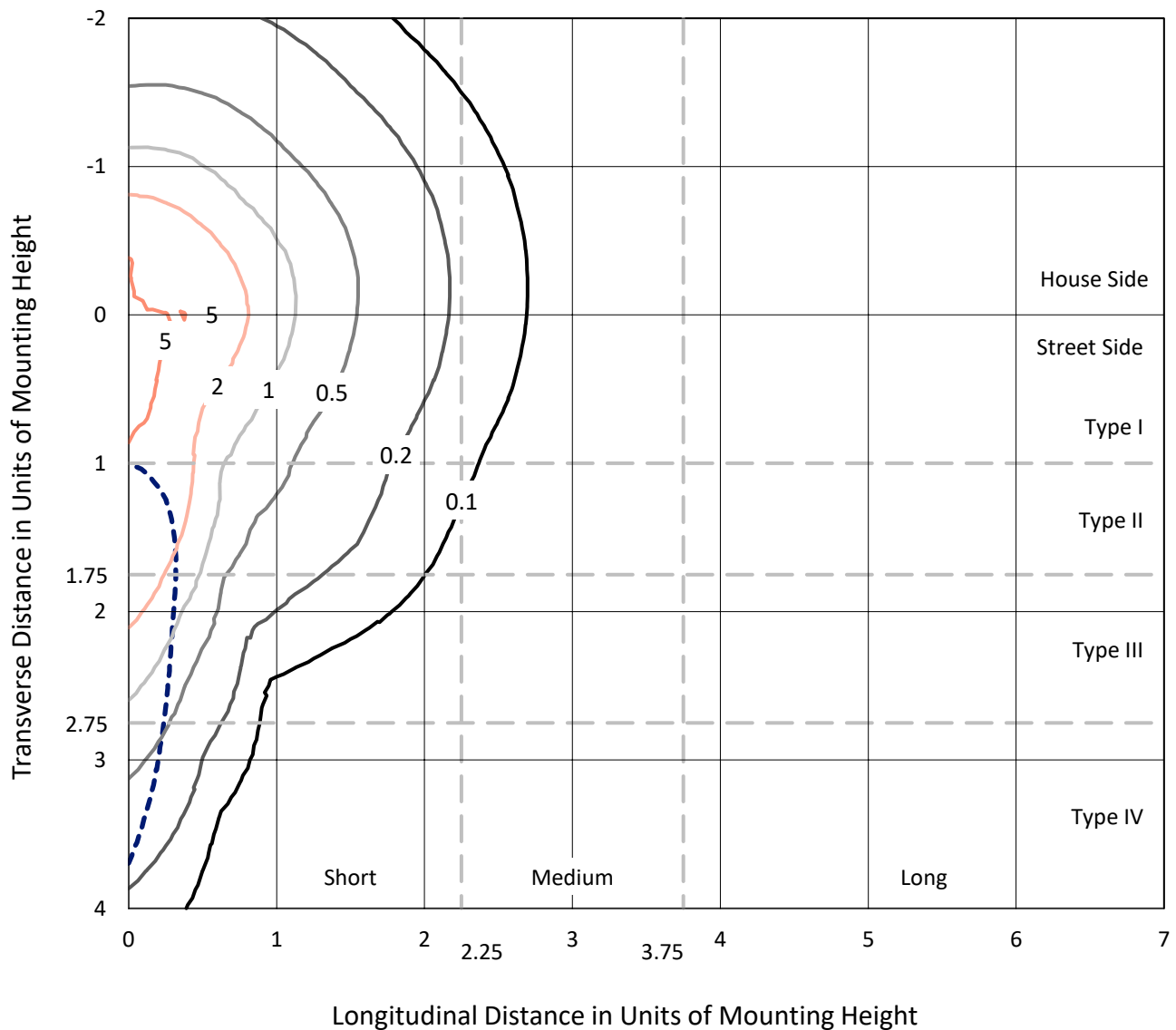


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

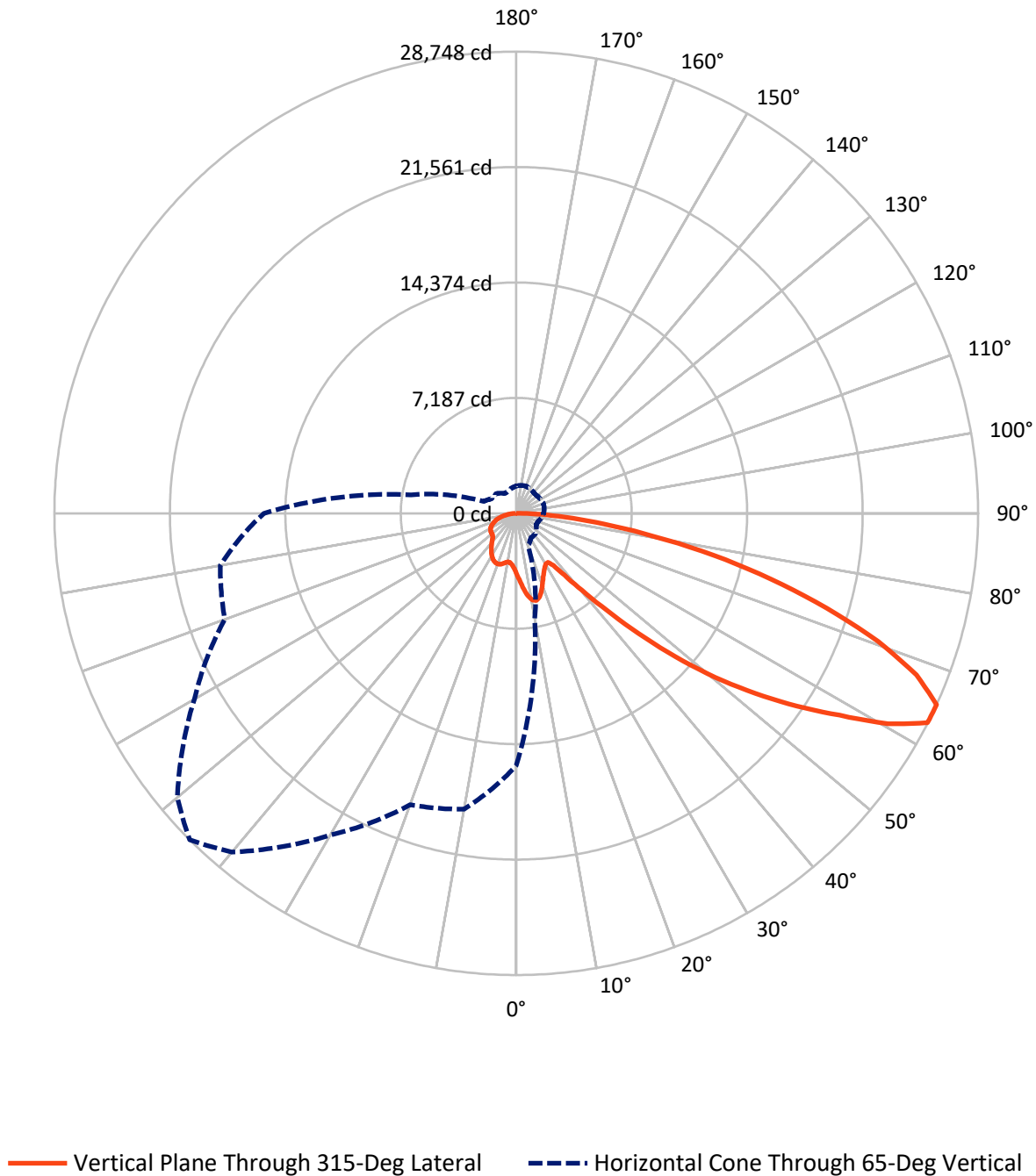


Based on 25 foot mounting height. Maximum calculated value = 7.5 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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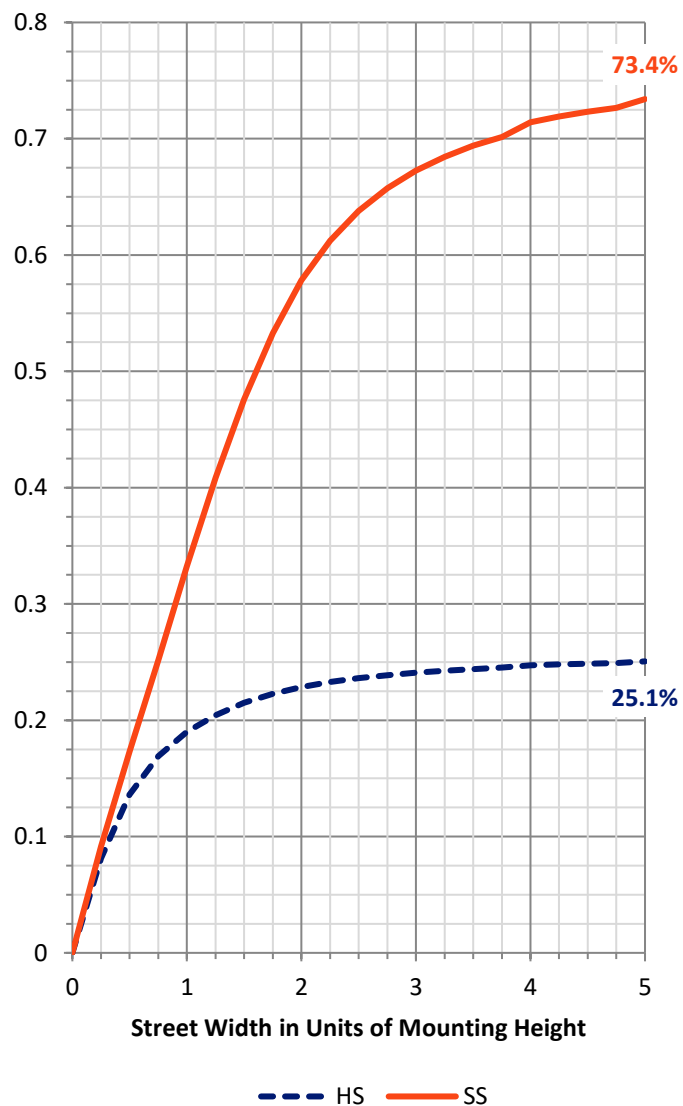
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7000.5	0.0	7000.5
	% Fixture	25.4	0.0	25.4
Street Side	Lumens	20544.3	0.0	20544.3
	% Fixture	74.6	0.0	74.6
Total	Lumens	27544.8	0.0	27544.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	375.7	1.4
10°-20°	1179.5	4.3
20°-30°	1821.9	6.6
30°-40°	2308.8	8.4
40°-50°	3482.3	12.6
50°-60°	5626.2	20.4
60°-70°	7013.9	25.5
70°-80°	4599.4	16.7
80°-90°	1137.1	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°	27544.8	100.0
0°-180°	27544.8	100.0

Coefficient of Utilization



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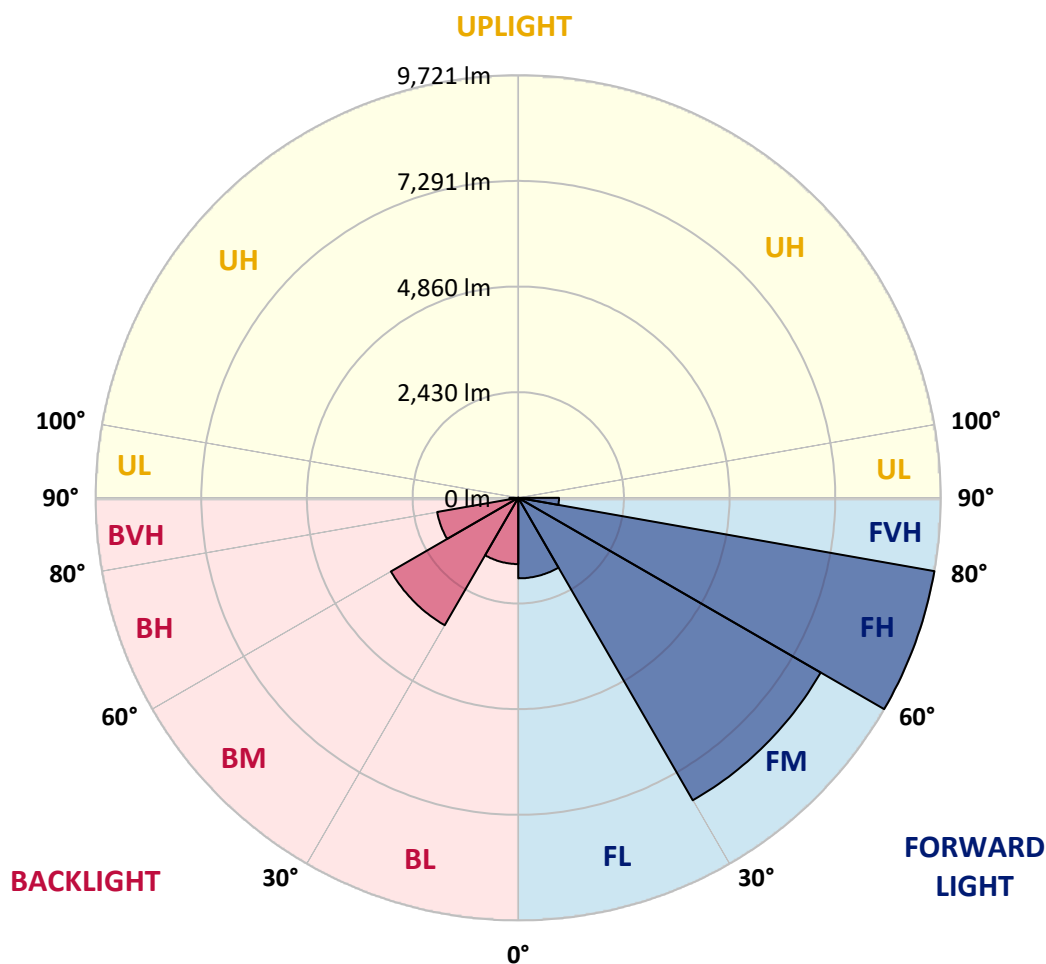
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1852.7	6.7			
FM	(30°-60°)	8034.2	29.2			
FH	(60°-80°)	9720.7	35.3			G4/12000
FVH	(80°-90°)	936.7	3.4			G5
BL	(0°-30°)	1524.4	5.5	B3/2500		
BM	(30°-60°)	3383.1	12.3	B3/5000		
BH	(60°-80°)	1892.6	6.9	B3/2500		G3/2500
BVH	(80°-90°)	200.4	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°	3787.7	3787.7	3787.7	3787.7	3787.7	3787.7	3787.7	3787.7	3787.7	3787.7	3787.7
2.5°	4073.2	4042.0	4010.7	3977.5	3944.3	3910.9	3877.5	3845.5	3813.5	3782.6	3748.1
5°	4379.9	4310.8	4241.9	4173.0	4104.2	4034.9	3965.7	3901.0	3836.4	3775.3	3715.0
7.5°	4688.0	4574.1	4460.3	4355.1	4249.9	4147.4	4045.0	3954.7	3864.4	3781.1	3703.0
10°	4924.2	4780.2	4636.2	4497.1	4358.1	4233.7	4109.1	4002.4	3895.5	3792.7	3708.9
12.5°	5068.8	4910.6	4752.4	4594.9	4437.3	4290.5	4143.8	4022.9	3902.2	3794.1	3716.1
15°	5156.8	4991.9	4826.8	4656.0	4485.0	4316.0	4146.9	4007.1	3867.3	3747.7	3685.2
17.5°	5206.2	5038.9	4871.6	4685.2	4498.6	4302.4	4106.3	3938.0	3770.0	3629.2	3590.7
20°	5260.7	5086.9	4912.9	4707.9	4503.0	4265.2	4027.4	3819.0	3610.7	3446.9	3436.6
22.5°	5324.0	5146.3	4968.6	4738.8	4508.9	4219.6	3930.4	3679.3	3428.3	3241.9	3261.8
25°	5405.3	5231.2	5057.2	4794.5	4531.8	4174.5	3817.4	3523.4	3229.6	3038.4	3092.2
27.5°	5515.8	5349.8	5183.6	4881.8	4579.8	4144.5	3709.2	3380.9	3052.6	2878.5	2943.9
30°	5664.8	5504.4	5343.9	4994.7	4645.5	4130.3	3615.0	3261.7	2908.3	2762.3	2813.5
32.5°	5840.7	5681.8	5523.0	5112.6	4702.2	4112.9	3523.4	3158.8	2794.3	2676.5	2699.3
35°	6054.3	5902.3	5750.0	5246.9	4743.7	4080.1	3416.7	3057.9	2699.0	2600.9	2591.5
37.5°	6414.0	6220.1	6026.2	5397.3	4768.4	4023.8	3279.3	2939.0	2598.8	2513.0	2478.3
40°	6957.6	6675.0	6392.5	5588.3	4784.0	3946.4	3108.9	2797.1	2485.4	2407.6	2354.5
42.5°	7678.5	7270.6	6862.8	5838.2	4813.5	3866.4	2919.6	2640.6	2361.5	2289.8	2223.0
45°	8568.7	8018.6	7468.5	6166.9	4865.4	3792.2	2719.1	2474.4	2229.6	2156.9	2092.2
47.5°	9682.0	8907.8	8133.4	6517.2	4900.9	3730.8	2560.7	2342.8	2124.9	2031.1	1975.5
50°	11141.3	9974.1	8806.7	6842.2	4877.8	3664.0	2450.2	2255.4	2060.7	1937.5	1872.8
52.5°	12816.4	11094.1	9371.8	7053.2	4734.6	3551.0	2367.6	2197.9	2028.3	1886.5	1796.1
55°	14599.8	12087.0	9574.5	7006.7	4438.8	3363.8	2288.8	2156.2	2023.5	1891.6	1755.4
57.5°	16221.8	12790.8	9359.8	6679.4	3999.1	3099.9	2200.5	2106.8	2013.0	1896.8	1731.0
60°	17202.2	12966.7	8731.1	6070.3	3409.5	2757.1	2104.8	2031.1	1957.4	1880.8	1708.1
62.5°	16704.3	12226.1	7748.0	5246.6	2745.3	2347.0	1948.7	1899.7	1850.9	1841.5	1681.3
65°	15708.0	11178.3	6648.8	4406.3	2163.9	1977.9	1792.1	1768.9	1745.9	1747.0	1624.9
67.5°	14373.1	9931.4	5489.9	3583.0	1676.1	1623.3	1570.4	1583.4	1596.1	1593.0	1524.4
70°	12769.1	8570.9	4372.6	2821.1	1269.6	1284.7	1299.7	1359.6	1419.3	1419.3	1396.8
72.5°	10857.9	7096.0	3334.2	2156.7	979.3	1024.8	1070.4	1155.4	1240.0	1254.3	1254.6
75°	8440.1	5405.1	2370.2	1565.4	760.4	801.8	843.0	938.1	1033.1	1098.8	1093.3
77.5°	6030.3	3783.2	1536.0	1060.7	585.5	613.5	641.6	734.0	826.3	934.6	931.6
80°	3946.8	2437.4	928.0	683.4	438.9	450.6	462.2	540.4	618.5	747.8	747.3
82.5°	2294.3	1410.7	527.3	420.4	313.6	315.7	318.1	375.6	433.2	543.6	549.7
85°	1009.4	634.6	259.8	224.7	189.6	188.7	187.5	229.6	271.8	353.9	361.9
87.5°	312.5	207.9	103.2	93.2	83.1	82.1	81.1	98.3	115.5	149.8	159.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	3787.7	3787.7	3787.7	3787.7	3787.7	3787.7	3787.7	3787.7	3787.7	3787.7	3787.7
2.5°	3720.2	3692.5	3667.3	3642.3	3620.4	3598.4	3576.3	3554.4	3537.4	3520.3	3506.4
5°	3662.3	3609.6	3565.5	3521.4	3482.4	3443.5	3408.1	3372.7	3345.5	3318.2	3299.2
7.5°	3633.0	3563.1	3505.0	3446.9	3397.9	3348.7	3305.4	3262.3	3229.8	3197.6	3174.8
10°	3635.1	3561.2	3503.0	3444.9	3392.1	3339.2	3290.6	3241.9	3203.2	3164.4	3139.2
12.5°	3655.7	3595.5	3556.9	3518.5	3476.9	3435.6	3385.2	3334.9	3285.5	3236.0	3203.3
15°	3656.3	3627.5	3632.7	3637.9	3627.2	3616.4	3572.6	3529.0	3458.6	3388.2	3338.5
17.5°	3601.3	3611.8	3675.1	3738.5	3772.2	3805.8	3770.5	3735.3	3642.1	3549.0	3475.8
20°	3486.0	3535.4	3645.5	3755.7	3826.1	3896.6	3880.3	3863.9	3757.4	3651.0	3561.2
22.5°	3334.9	3408.0	3533.6	3659.5	3751.2	3842.9	3852.8	3862.5	3760.7	3659.0	3566.6
25°	3176.5	3260.7	3373.7	3486.7	3577.0	3667.3	3701.1	3734.6	3651.2	3567.9	3485.6
27.5°	3025.3	3106.7	3199.6	3292.3	3364.7	3437.1	3474.5	3512.3	3452.8	3393.5	3329.7
30°	2878.1	2942.9	3020.0	3096.9	3157.0	3217.2	3247.7	3278.3	3233.1	3187.6	3142.0
32.5°	2737.6	2775.8	2837.2	2898.9	2956.4	3014.1	3048.0	3082.0	3040.5	2998.7	2962.2
35°	2602.0	2612.5	2659.5	2706.3	2763.3	2820.4	2861.1	2901.8	2872.2	2842.6	2808.9
37.5°	2466.8	2455.2	2488.9	2522.4	2579.3	2636.2	2686.5	2736.9	2723.1	2709.5	2678.5
40°	2328.3	2301.9	2326.2	2350.5	2405.5	2460.4	2518.2	2576.2	2579.5	2582.8	2556.5
42.5°	2188.2	2153.2	2173.0	2193.0	2245.0	2297.1	2359.7	2422.2	2438.9	2455.6	2433.4
45°	2058.2	2024.4	2040.9	2057.8	2107.2	2156.6	2221.4	2286.3	2310.2	2334.2	2314.1
47.5°	1947.0	1918.5	1934.3	1949.8	1998.1	2046.4	2110.4	2174.3	2201.9	2229.6	2215.6
50°	1847.5	1822.3	1846.7	1871.3	1917.0	1962.5	2019.7	2077.0	2112.4	2147.9	2147.0
52.5°	1771.2	1746.3	1783.1	1819.7	1861.6	1903.3	1956.6	2010.1	2052.2	2094.1	2101.7
55°	1716.0	1676.5	1728.8	1780.7	1825.8	1870.8	1917.7	1964.3	2008.8	2053.4	2063.8
57.5°	1673.5	1615.9	1672.0	1728.2	1781.0	1833.9	1880.2	1926.5	1971.5	2016.2	2026.8
60°	1633.5	1558.8	1608.1	1657.2	1718.0	1778.7	1825.6	1872.8	1917.8	1962.9	1974.5
62.5°	1588.0	1494.9	1526.1	1557.4	1628.1	1699.0	1749.2	1799.4	1840.6	1881.9	1893.1
65°	1525.8	1426.6	1438.6	1450.5	1526.4	1602.4	1650.4	1698.3	1734.7	1771.0	1782.5
67.5°	1441.8	1359.3	1355.5	1351.7	1421.8	1492.0	1537.4	1582.8	1614.2	1645.5	1656.8
70°	1338.0	1279.3	1266.2	1253.2	1314.8	1376.4	1415.6	1454.9	1483.3	1511.6	1522.3
72.5°	1214.3	1174.0	1154.9	1135.9	1184.4	1232.8	1268.2	1303.7	1331.5	1359.3	1372.1
75°	1062.3	1031.3	1012.9	994.5	1030.5	1066.5	1098.7	1130.8	1156.1	1181.3	1194.7
77.5°	906.8	881.9	863.4	844.7	874.1	903.3	930.9	958.6	985.1	1011.6	1024.1
80°	726.6	705.6	690.1	674.3	698.8	723.0	746.3	769.6	789.8	809.9	826.5
82.5°	539.6	529.3	518.3	507.3	505.2	503.2	495.1	486.9	529.9	573.0	601.2
85°	351.0	340.1	327.8	315.4	304.9	294.3	271.8	249.3	289.6	329.9	364.8
87.5°	155.5	151.2	148.8	146.5	146.1	145.7	128.4	111.2	128.0	145.0	159.2
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°	3787.7	3787.7	3787.7	3787.7	3787.7	3787.7	3787.7	3787.7	3787.7	3787.7	3787.7
2.5°	3492.6	3481.8	3471.1	3461.2	3451.2	3438.9	3451.2	3461.2	3471.1	3481.8	3492.6
5°	3280.1	3266.6	3253.0	3242.8	3232.4	3222.3	3232.4	3242.8	3253.0	3266.6	3280.1
7.5°	3152.2	3136.7	3121.2	3111.9	3102.8	3095.8	3102.8	3111.9	3121.2	3136.7	3152.2
10°	3113.5	3098.9	3084.2	3076.3	3068.4	3065.3	3068.4	3076.3	3084.2	3098.9	3113.5
12.5°	3170.6	3154.2	3137.9	3131.3	3124.6	3123.4	3124.6	3131.3	3137.9	3154.2	3170.6
15°	3288.8	3266.1	3243.3	3234.6	3225.9	3225.2	3225.9	3234.6	3243.3	3266.1	3288.8
17.5°	3402.5	3368.8	3334.9	3323.9	3312.7	3311.0	3312.7	3323.9	3334.9	3368.8	3402.5
20°	3471.6	3428.3	3385.1	3371.2	3357.4	3353.1	3357.4	3371.2	3385.1	3428.3	3471.6
22.5°	3474.0	3428.5	3382.9	3367.6	3352.4	3345.8	3352.4	3367.6	3382.9	3428.5	3474.0
25°	3403.6	3364.2	3324.7	3310.3	3296.1	3287.7	3296.1	3310.3	3324.7	3364.2	3403.6
27.5°	3265.9	3239.4	3212.9	3206.3	3199.7	3197.6	3199.7	3206.3	3212.9	3239.4	3265.9
30°	3096.1	3082.6	3069.0	3069.0	3069.0	3071.1	3069.0	3069.0	3069.0	3082.6	3096.1
32.5°	2925.8	2916.9	2908.0	2909.2	2910.5	2912.6	2910.5	2909.2	2908.0	2916.9	2925.8
35°	2775.3	2761.9	2748.4	2745.6	2742.6	2741.2	2742.6	2745.6	2748.4	2761.9	2775.3
37.5°	2647.5	2622.9	2598.5	2585.6	2572.5	2565.3	2572.5	2585.6	2598.5	2622.9	2647.5
40°	2530.1	2494.3	2458.9	2434.8	2411.0	2396.8	2411.0	2434.8	2458.9	2494.3	2530.1
42.5°	2411.2	2366.9	2322.5	2287.6	2252.5	2229.6	2252.5	2287.6	2322.5	2366.9	2411.2
45°	2294.3	2243.5	2193.0	2151.8	2110.7	2084.2	2110.7	2151.8	2193.0	2243.5	2294.3
47.5°	2201.7	2156.6	2111.5	2073.5	2035.5	2010.1	2035.5	2073.5	2111.5	2156.6	2201.7
50°	2146.5	2110.4	2074.3	2039.1	2004.0	1979.6	2004.0	2039.1	2074.3	2110.4	2146.5
52.5°	2109.2	2079.8	2050.5	2018.9	1987.6	1965.0	1987.6	2018.9	2050.5	2079.8	2109.2
55°	2074.3	2048.8	2023.1	1995.6	1968.0	1947.6	1968.0	1995.6	2023.1	2048.8	2074.3
57.5°	2037.4	2011.6	1985.7	1958.4	1930.9	1909.8	1930.9	1958.4	1985.7	2011.6	2037.4
60°	1986.1	1960.8	1935.7	1907.5	1879.3	1857.5	1879.3	1907.5	1935.7	1960.8	1986.1
62.5°	1904.2	1881.5	1858.6	1829.0	1799.4	1773.1	1799.4	1829.0	1858.6	1881.5	1904.2
65°	1793.9	1771.9	1750.0	1721.2	1692.5	1670.0	1692.5	1721.2	1750.0	1771.9	1793.9
67.5°	1667.8	1647.6	1627.6	1600.8	1574.1	1553.7	1574.1	1600.8	1627.6	1647.6	1667.8
70°	1533.1	1516.7	1500.2	1474.7	1449.0	1425.8	1449.0	1474.7	1500.2	1516.7	1533.1
72.5°	1384.9	1371.1	1357.5	1333.1	1308.8	1286.3	1308.8	1333.1	1357.5	1371.1	1384.9
75°	1208.1	1201.4	1194.7	1174.2	1153.7	1132.2	1153.7	1174.2	1194.7	1201.4	1208.1
77.5°	1036.6	1027.3	1017.7	997.0	976.4	959.3	976.4	997.0	1017.7	1027.3	1036.6
80°	843.0	839.0	835.0	807.2	779.3	747.0	779.3	807.2	835.0	839.0	843.0
82.5°	629.3	627.6	625.7	602.3	578.7	558.1	578.7	602.3	625.7	627.6	629.3
85°	399.6	396.8	393.9	375.6	357.2	338.7	357.2	375.6	393.9	396.8	399.6
87.5°	173.2	169.7	165.9	156.7	147.1	138.1	147.1	156.7	165.9	169.7	173.2
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: P966828

CATALOG NUMBER: NAV-SB4C-830-U-SLR

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	3787.7	3787.7	3787.7	3787.7	3787.7	3787.7	3787.7	3787.7	3787.7	3787.7	3787.7
2.5°	3506.4	3520.3	3537.4	3554.4	3576.3	3598.4	3620.4	3642.3	3667.3	3692.5	3720.2
5°	3299.2	3318.2	3345.5	3372.7	3408.1	3443.5	3482.4	3521.4	3565.5	3609.6	3662.3
7.5°	3174.8	3197.6	3229.8	3262.3	3305.4	3348.7	3397.9	3446.9	3505.0	3563.1	3633.0
10°	3139.2	3164.4	3203.2	3241.9	3290.6	3339.2	3392.1	3444.9	3503.0	3561.2	3635.1
12.5°	3203.3	3236.0	3285.5	3334.9	3385.2	3435.6	3476.9	3518.5	3556.9	3595.5	3655.7
15°	3338.5	3388.2	3458.6	3529.0	3572.6	3616.4	3627.2	3637.9	3632.7	3627.5	3656.3
17.5°	3475.8	3549.0	3642.1	3735.3	3770.5	3805.8	3772.2	3738.5	3675.1	3611.8	3601.3
20°	3561.2	3651.0	3757.4	3863.9	3880.3	3896.6	3826.1	3755.7	3645.5	3535.4	3486.0
22.5°	3566.6	3659.0	3760.7	3862.5	3852.8	3842.9	3751.2	3659.5	3533.6	3408.0	3334.9
25°	3485.6	3567.9	3651.2	3734.6	3701.1	3667.3	3577.0	3486.7	3373.7	3260.7	3176.5
27.5°	3329.7	3393.5	3452.8	3512.3	3474.5	3437.1	3364.7	3292.3	3199.6	3106.7	3025.3
30°	3142.0	3187.6	3233.1	3278.3	3247.7	3217.2	3157.0	3096.9	3020.0	2942.9	2878.1
32.5°	2962.2	2998.7	3040.5	3082.0	3048.0	3014.1	2956.4	2898.9	2837.2	2775.8	2737.6
35°	2808.9	2842.6	2872.2	2901.8	2861.1	2820.4	2763.3	2706.3	2659.5	2612.5	2602.0
37.5°	2678.5	2709.5	2723.1	2736.9	2686.5	2636.2	2579.3	2522.4	2488.9	2455.2	2466.8
40°	2556.5	2582.8	2579.5	2576.2	2518.2	2460.4	2405.5	2350.5	2326.2	2301.9	2328.3
42.5°	2433.4	2455.6	2438.9	2422.2	2359.7	2297.1	2245.0	2193.0	2173.0	2153.2	2188.2
45°	2314.1	2334.2	2310.2	2286.3	2221.4	2156.6	2107.2	2057.8	2040.9	2024.4	2058.2
47.5°	2215.6	2229.6	2201.9	2174.3	2110.4	2046.4	1998.1	1949.8	1934.3	1918.5	1947.0
50°	2147.0	2147.9	2112.4	2077.0	2019.7	1962.5	1917.0	1871.3	1846.7	1822.3	1847.5
52.5°	2101.7	2094.1	2052.2	2010.1	1956.6	1903.3	1861.6	1819.7	1783.1	1746.3	1771.2
55°	2063.8	2053.4	2008.8	1964.3	1917.7	1870.8	1825.8	1780.7	1728.8	1676.5	1716.0
57.5°	2026.8	2016.2	1971.5	1926.5	1880.2	1833.9	1781.0	1728.2	1672.0	1615.9	1673.5
60°	1974.5	1962.9	1917.8	1872.8	1825.6	1778.7	1718.0	1657.2	1608.1	1558.8	1633.5
62.5°	1893.1	1881.9	1840.6	1799.4	1749.2	1699.0	1628.1	1557.4	1526.1	1494.9	1588.0
65°	1782.5	1771.0	1734.7	1698.3	1650.4	1602.4	1526.4	1450.5	1438.6	1426.6	1525.8
67.5°	1656.8	1645.5	1614.2	1582.8	1537.4	1492.0	1421.8	1351.7	1355.5	1359.3	1441.8
70°	1522.3	1511.6	1483.3	1454.9	1415.6	1376.4	1314.8	1253.2	1266.2	1279.3	1338.0
72.5°	1372.1	1359.3	1331.5	1303.7	1268.2	1232.8	1184.4	1135.9	1154.9	1174.0	1214.3
75°	1194.7	1181.3	1156.1	1130.8	1098.7	1066.5	1030.5	994.5	1012.9	1031.3	1062.3
77.5°	1024.1	1011.6	985.1	958.6	930.9	903.3	874.1	844.7	863.4	881.9	906.8
80°	826.5	809.9	789.8	769.6	746.3	723.0	698.8	674.3	690.1	705.6	726.6
82.5°	601.2	573.0	529.9	486.9	495.1	503.2	505.2	507.3	518.3	529.3	539.6
85°	364.8	329.9	289.6	249.3	271.8	294.3	304.9	315.4	327.8	340.1	351.0
87.5°	159.2	145.0	128.0	111.2	128.4	145.7	146.1	146.5	148.8	151.2	155.5
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: P966828

CATALOG NUMBER: NAV-SB4C-830-U-SLR

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	3787.7	3787.7	3787.7	3787.7	3787.7	3787.7	3787.7	3787.7	3787.7	3787.7	3787.7
2.5°	3748.1	3782.6	3813.5	3845.5	3877.5	3910.9	3944.3	3977.5	4010.7	4042.0	4073.2
5°	3715.0	3775.3	3836.4	3901.0	3965.7	4034.9	4104.2	4173.0	4241.9	4310.8	4379.9
7.5°	3703.0	3781.1	3864.4	3954.7	4045.0	4147.4	4249.9	4355.1	4460.3	4574.1	4688.0
10°	3708.9	3792.7	3895.5	4002.4	4109.1	4233.7	4358.1	4497.1	4636.2	4780.2	4924.2
12.5°	3716.1	3794.1	3902.2	4022.9	4143.8	4290.5	4437.3	4594.9	4752.4	4910.6	5068.8
15°	3685.2	3747.7	3867.3	4007.1	4146.9	4316.0	4485.0	4656.0	4826.8	4991.9	5156.8
17.5°	3590.7	3629.2	3770.0	3938.0	4106.3	4302.4	4498.6	4685.2	4871.6	5038.9	5206.2
20°	3436.6	3446.9	3610.7	3819.0	4027.4	4265.2	4503.0	4707.9	4912.9	5086.9	5260.7
22.5°	3261.8	3241.9	3428.3	3679.3	3930.4	4219.6	4508.9	4738.8	4968.6	5146.3	5324.0
25°	3092.2	3038.4	3229.6	3523.4	3817.4	4174.5	4531.8	4794.5	5057.2	5231.2	5405.3
27.5°	2943.9	2878.5	3052.6	3380.9	3709.2	4144.5	4579.8	4881.8	5183.6	5349.8	5515.8
30°	2813.5	2762.3	2908.3	3261.7	3615.0	4130.3	4645.5	4994.7	5343.9	5504.4	5664.8
32.5°	2699.3	2676.5	2794.3	3158.8	3523.4	4112.9	4702.2	5112.6	5523.0	5681.8	5840.7
35°	2591.5	2600.9	2699.0	3057.9	3416.7	4080.1	4743.7	5246.9	5750.0	5902.3	6054.3
37.5°	2478.3	2513.0	2598.8	2939.0	3279.3	4023.8	4768.4	5397.3	6026.2	6220.1	6414.0
40°	2354.5	2407.6	2485.4	2797.1	3108.9	3946.4	4784.0	5588.3	6392.5	6675.0	6957.6
42.5°	2223.0	2289.8	2361.5	2640.6	2919.6	3866.4	4813.5	5838.2	6862.8	7270.6	7678.5
45°	2092.2	2156.9	2229.6	2474.4	2719.1	3792.2	4865.4	6166.9	7468.5	8018.6	8568.7
47.5°	1975.5	2031.1	2124.9	2342.8	2560.7	3730.8	4900.9	6517.2	8133.4	8907.8	9682.0
50°	1872.8	1937.5	2060.7	2255.4	2450.2	3664.0	4877.8	6842.2	8806.7	9974.1	11141.3
52.5°	1796.1	1886.5	2028.3	2197.9	2367.6	3551.0	4734.6	7053.2	9371.8	11094.1	12816.4
55°	1755.4	1891.6	2023.5	2156.2	2288.8	3363.8	4438.8	7006.7	9574.5	12087.0	14599.8
57.5°	1731.0	1896.8	2013.0	2106.8	2200.5	3099.9	3999.1	6679.4	9359.8	12790.8	16221.8
60°	1708.1	1880.8	1957.4	2031.1	2104.8	2757.1	3409.5	6070.3	8731.1	12966.7	17202.2
62.5°	1681.3	1841.5	1850.9	1899.7	1948.7	2347.0	2745.3	5246.6	7748.0	12226.1	16704.3
65°	1624.9	1747.0	1745.9	1768.9	1792.1	1977.9	2163.9	4406.3	6648.8	11178.3	15708.0
67.5°	1524.4	1593.0	1596.1	1583.4	1570.4	1623.3	1676.1	3583.0	5489.9	9931.4	14373.1
70°	1396.8	1419.3	1419.3	1359.6	1299.7	1284.7	1269.6	2821.1	4372.6	8570.9	12769.1
72.5°	1254.6	1254.3	1240.0	1155.4	1070.4	1024.8	979.3	2156.7	3334.2	7096.0	10857.9
75°	1093.3	1098.8	1033.1	938.1	843.0	801.8	760.4	1565.4	2370.2	5405.1	8440.1
77.5°	931.6	934.6	826.3	734.0	641.6	613.5	585.5	1060.7	1536.0	3783.2	6030.3
80°	747.3	747.8	618.5	540.4	462.2	450.6	438.9	683.4	928.0	2437.4	3946.8
82.5°	549.7	543.6	433.2	375.6	318.1	315.7	313.6	420.4	527.3	1410.7	2294.3
85°	361.9	353.9	271.8	229.6	187.5	188.7	189.6	224.7	259.8	634.6	1009.4
87.5°	159.9	149.8	115.5	98.3	81.1	82.1	83.1	93.2	103.2	207.9	312.5
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: P966828

CATALOG NUMBER: NAV-SB4C-830-U-SLR

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	3787.7	3787.7	3787.7	3787.7	3787.7	3787.7	3787.7	3787.7	3787.7	3787.7	3787.7
2.5°	4088.6	4104.2	4126.1	4148.1	4161.2	4174.3	4180.8	4187.3	4184.5	4187.3	4180.8
5°	4433.8	4488.0	4541.4	4595.1	4624.1	4653.2	4670.7	4688.5	4701.9	4688.5	4670.7
7.5°	4775.9	4863.5	4942.4	5021.4	5068.8	5116.4	5142.1	5167.6	5180.0	5167.6	5142.1
10°	5028.0	5131.8	5224.3	5317.0	5373.0	5428.9	5453.8	5478.7	5488.2	5478.7	5453.8
12.5°	5181.4	5293.7	5377.5	5460.9	5501.6	5542.3	5555.9	5569.5	5571.0	5569.5	5555.9
15°	5253.8	5350.8	5403.3	5455.9	5457.4	5458.8	5444.3	5429.7	5412.6	5429.7	5444.3
17.5°	5271.8	5337.3	5338.3	5339.2	5280.3	5221.5	5167.5	5113.5	5075.4	5113.5	5167.5
20°	5283.6	5306.5	5237.4	5168.5	5038.5	4908.5	4813.9	4719.3	4661.2	4719.3	4813.9
22.5°	5294.0	5264.1	5121.0	4978.0	4786.9	4595.8	4477.4	4359.1	4294.9	4359.1	4477.4
25°	5310.8	5216.3	4999.2	4782.1	4550.0	4317.8	4193.5	4069.4	4008.6	4069.4	4193.5
27.5°	5346.9	5177.9	4890.3	4602.8	4345.5	4088.2	3965.8	3843.6	3786.2	3843.6	3965.8
30°	5412.9	5161.2	4807.0	4453.0	4185.0	3917.0	3803.5	3690.0	3636.5	3690.0	3803.5
32.5°	5495.7	5150.9	4750.4	4349.8	4098.0	3846.1	3756.9	3667.8	3629.2	3667.8	3756.9
35°	5632.2	5210.3	4792.8	4375.5	4200.6	4025.7	4005.0	3984.2	3981.0	3984.2	4005.0
37.5°	5917.5	5421.0	5041.7	4662.3	4651.0	4639.7	4734.7	4829.8	4879.2	4829.8	4734.7
40°	6417.6	5877.7	5595.6	5313.5	5512.6	5711.7	5942.8	6173.9	6289.0	6173.9	5942.8
42.5°	7142.7	6607.0	6444.5	6282.0	6716.3	7150.6	7571.0	7991.3	8238.0	7991.3	7571.0
45°	8087.5	7606.1	7534.5	7462.6	8158.4	8854.4	9545.0	10235.9	10655.1	10235.9	9545.0
47.5°	9213.9	8745.6	8731.1	8716.5	9720.3	10723.8	11734.9	12745.9	13339.7	12745.9	11734.9
50°	10562.9	9984.8	9987.3	9989.8	11283.3	12576.9	13911.5	15246.3	16053.1	15246.3	13911.5
52.5°	12116.1	11416.0	11345.2	11274.3	12819.5	14364.6	16015.9	17667.2	18634.5	17667.2	16015.9
55°	13907.9	13216.0	12940.1	12664.1	14383.7	16103.4	18072.0	20040.7	21191.1	20040.7	18072.0
57.5°	15845.1	15468.2	14914.6	14361.1	16097.5	17834.0	20063.8	22293.5	23720.0	22293.5	20063.8
60°	17787.2	18372.6	17685.1	16997.7	18640.9	20284.1	22671.6	25059.0	26600.8	25059.0	22671.6
62.5°	18303.2	19902.2	19824.7	19747.1	21252.5	22757.9	25029.3	27300.6	28725.7	27300.6	25029.3
65°	17208.6	18709.3	19006.3	19303.1	21216.1	23129.2	25331.7	27534.2	28747.5	27534.2	25331.7
67.5°	15800.3	17227.6	17366.8	17505.9	19499.1	21492.2	23704.3	25916.2	26866.8	25916.2	23704.3
70°	14321.6	15874.1	15936.3	15998.7	17781.2	19563.6	21467.1	23370.5	23898.8	23370.5	21467.1
72.5°	12639.4	14420.9	14465.7	14510.4	15904.9	17299.5	18725.2	20150.7	20204.2	20150.7	18725.2
75°	10283.9	12127.8	12293.3	12458.9	13543.8	14628.8	15632.4	16636.1	16367.1	16636.1	15632.4
77.5°	7751.5	9472.7	9709.6	9946.6	10771.4	11596.2	12308.0	13019.9	12557.7	13019.9	12308.0
80°	5394.9	6842.8	7137.3	7431.7	8054.7	8677.3	9051.2	9424.8	8681.3	9424.8	9051.2
82.5°	3284.2	4274.2	4603.2	4932.2	5361.0	5789.7	5945.7	6101.5	5517.3	6101.5	5945.7
85°	1534.8	2060.2	2340.1	2619.8	2972.1	3324.3	3412.8	3501.3	3033.3	3501.3	3412.8
87.5°	489.1	665.6	821.7	977.8	1154.0	1330.1	1337.7	1345.1	1129.3	1345.1	1337.7
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: P966828

CATALOG NUMBER: NAV-SB4C-830-U-SLR

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	3787.7	3787.7	3787.7	3787.7	3787.7	3787.7	3787.7
2.5°	4174.3	4161.2	4148.1	4126.1	4104.2	4088.6	4073.2
5°	4653.2	4624.1	4595.1	4541.4	4488.0	4433.8	4379.9
7.5°	5116.4	5068.8	5021.4	4942.4	4863.5	4775.9	4688.0
10°	5428.9	5373.0	5317.0	5224.3	5131.8	5028.0	4924.2
12.5°	5542.3	5501.6	5460.9	5377.5	5293.7	5181.4	5068.8
15°	5458.8	5457.4	5455.9	5403.3	5350.8	5253.8	5156.8
17.5°	5221.5	5280.3	5339.2	5338.3	5337.3	5271.8	5206.2
20°	4908.5	5038.5	5168.5	5237.4	5306.5	5283.6	5260.7
22.5°	4595.8	4786.9	4978.0	5121.0	5264.1	5294.0	5324.0
25°	4317.8	4550.0	4782.1	4999.2	5216.3	5310.8	5405.3
27.5°	4088.2	4345.5	4602.8	4890.3	5177.9	5346.9	5515.8
30°	3917.0	4185.0	4453.0	4807.0	5161.2	5412.9	5664.8
32.5°	3846.1	4098.0	4349.8	4750.4	5150.9	5495.7	5840.7
35°	4025.7	4200.6	4375.5	4792.8	5210.3	5632.2	6054.3
37.5°	4639.7	4651.0	4662.3	5041.7	5421.0	5917.5	6414.0
40°	5711.7	5512.6	5313.5	5595.6	5877.7	6417.6	6957.6
42.5°	7150.6	6716.3	6282.0	6444.5	6607.0	7142.7	7678.5
45°	8854.4	8158.4	7462.6	7534.5	7606.1	8087.5	8568.7
47.5°	10723.8	9720.3	8716.5	8731.1	8745.6	9213.9	9682.0
50°	12576.9	11283.3	9989.8	9987.3	9984.8	10562.9	11141.3
52.5°	14364.6	12819.5	11274.3	11345.2	11416.0	12116.1	12816.4
55°	16103.4	14383.7	12664.1	12940.1	13216.0	13907.9	14599.8
57.5°	17834.0	16097.5	14361.1	14914.6	15468.2	15845.1	16221.8
60°	20284.1	18640.9	16997.7	17685.1	18372.6	17787.2	17202.2
62.5°	22757.9	21252.5	19747.1	19824.7	19902.2	18303.2	16704.3
65°	23129.2	21216.1	19303.1	19006.3	18709.3	17208.6	15708.0
67.5°	21492.2	19499.1	17505.9	17366.8	17227.6	15800.3	14373.1
70°	19563.6	17781.2	15998.7	15936.3	15874.1	14321.6	12769.1
72.5°	17299.5	15904.9	14510.4	14465.7	14420.9	12639.4	10857.9
75°	14628.8	13543.8	12458.9	12293.3	12127.8	10283.9	8440.1
77.5°	11596.2	10771.4	9946.6	9709.6	9472.7	7751.5	6030.3
80°	8677.3	8054.7	7431.7	7137.3	6842.8	5394.9	3946.8
82.5°	5789.7	5361.0	4932.2	4603.2	4274.2	3284.2	2294.3
85°	3324.3	2972.1	2619.8	2340.1	2060.2	1534.8	1009.4
87.5°	1330.1	1154.0	977.8	821.7	665.6	489.1	312.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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