

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: P965247

Luminaire Tested: **NAV-SB3D-830-U-SLR**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P965247
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-SB3D-830-U-SLR
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28019.4 lumens
Efficiency: N/A
Efficacy: 128.5 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): 218.1
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

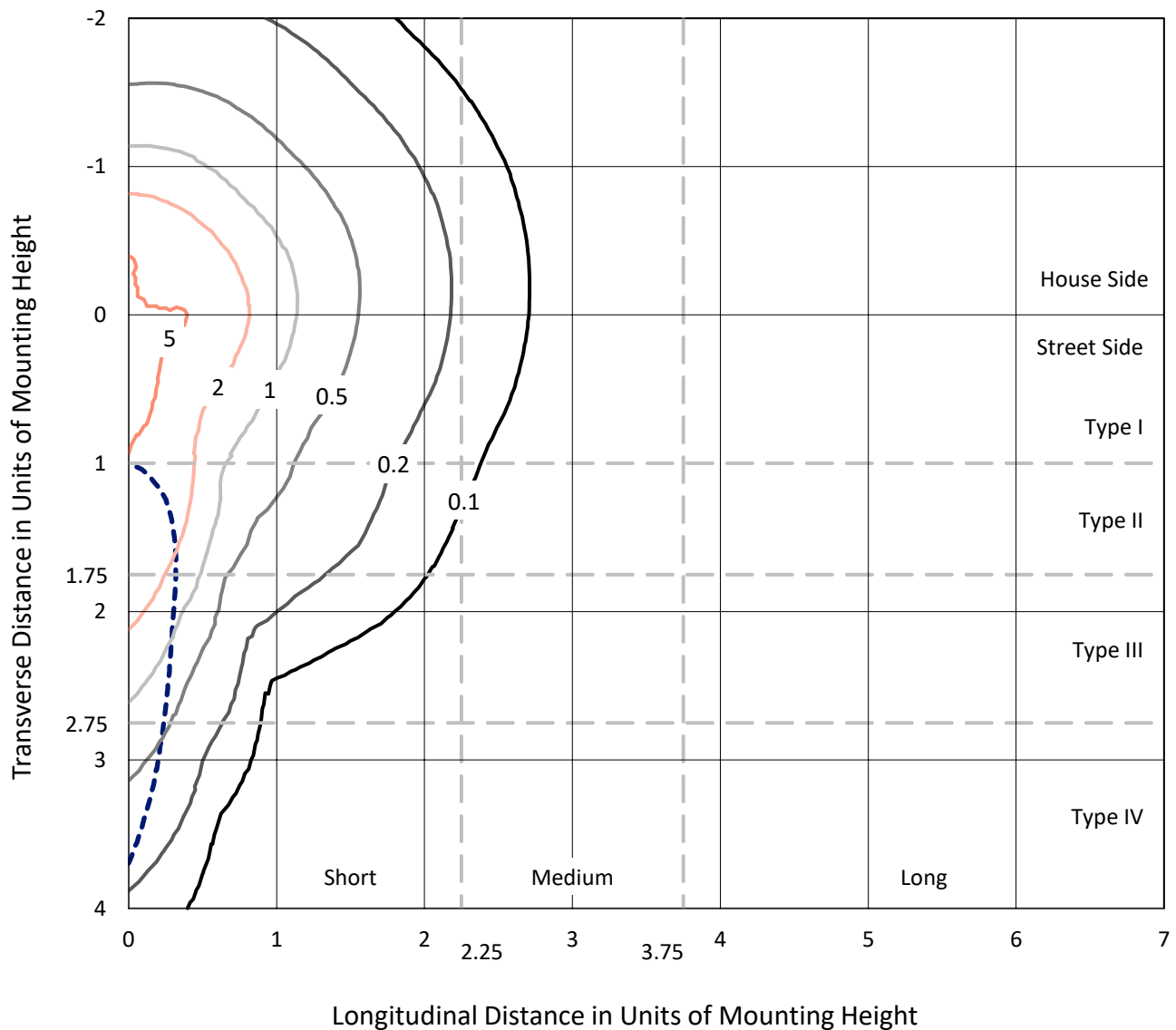


REPORT NUMBER: P965247

CATALOG NUMBER: NAV-SB3D-830-U-SLR

Iso-Footcandle Lines of Horizontal Illumination

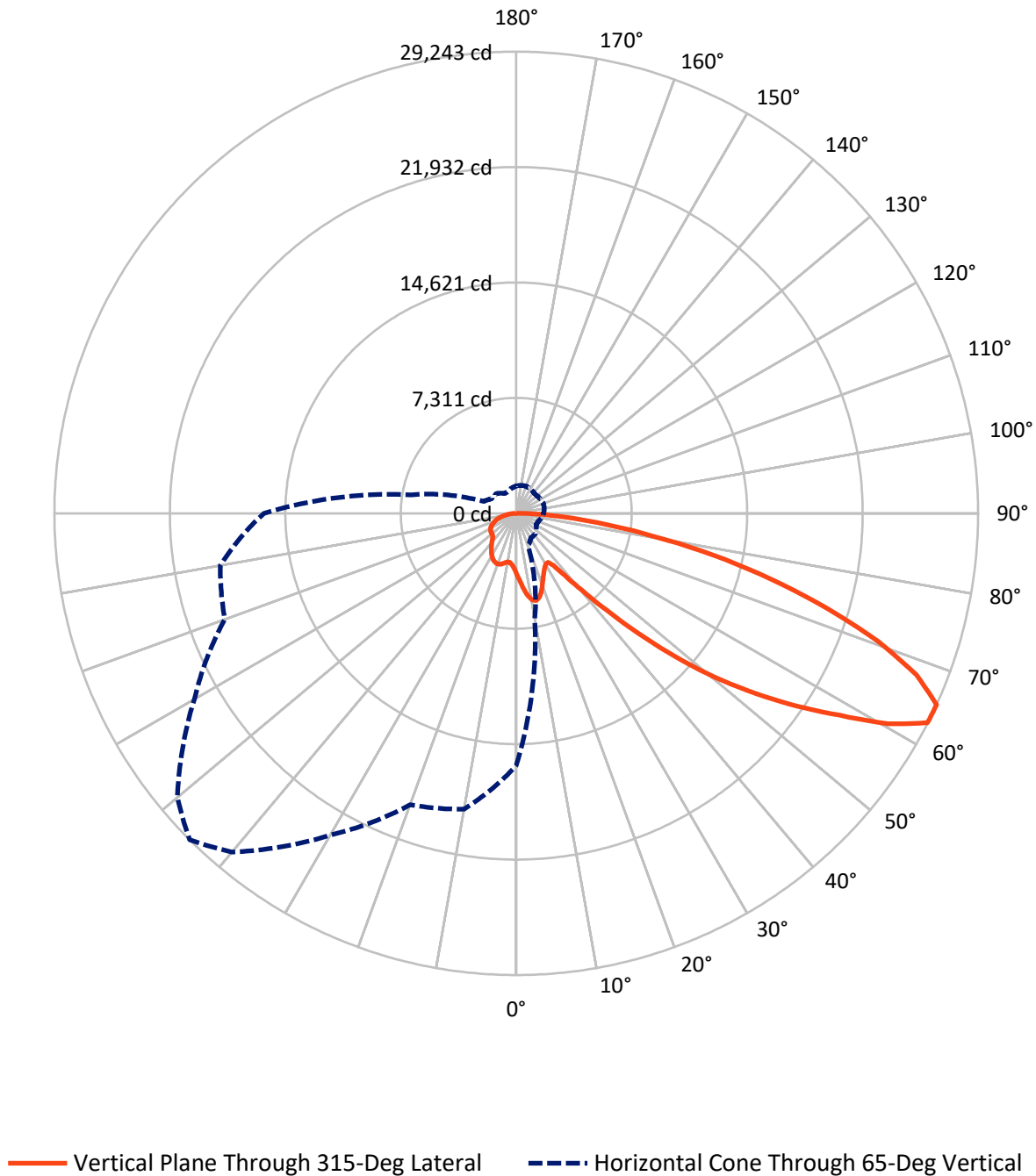
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
Type IV - Short - N/A

REPORT NUMBER: P965247
CATALOG NUMBER: NAV-SB3D-830-U-SLR

Luminous Intensity Polar Plot



REPORT NUMBER: P965247

CATALOG NUMBER: NAV-SB3D-830-U-SLR

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7121.1	0.0	7121.1
	% Fixture	25.4	0.0	25.4
Street Side	Lumens	20898.3	0.0	20898.3
	% Fixture	74.6	0.0	74.6
Total	Lumens	28019.4	0.0	28019.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	382.2	1.4
10°-20°	1199.8	4.3
20°-30°	1853.3	6.6
30°-40°	2348.6	8.4
40°-50°	3542.3	12.6
50°-60°	5723.1	20.4
60°-70°	7134.8	25.5
70°-80°	4678.6	16.7
80°-90°	1156.7	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°	28019.4	100.0
0°-180°	28019.4	100.0

Coefficient of Utilization



REPORT NUMBER: P965247

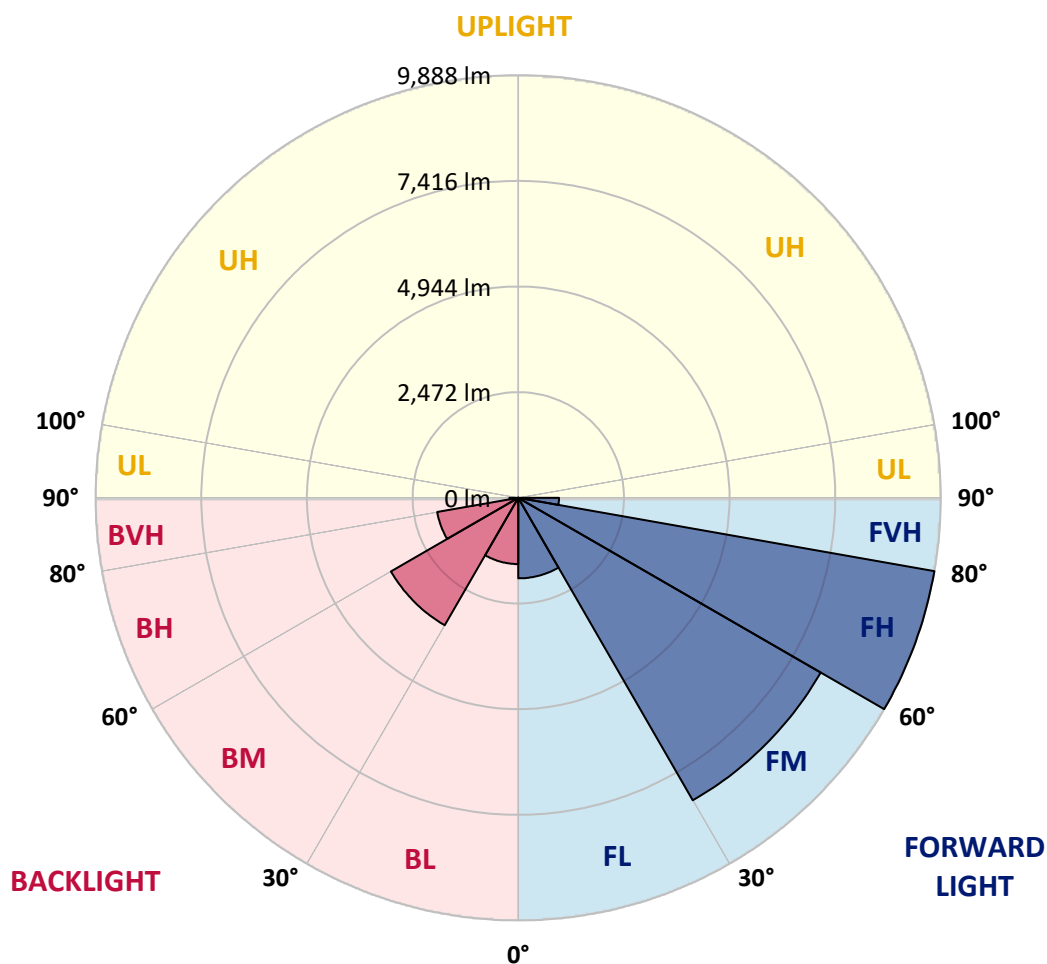
CATALOG NUMBER: NAV-SB3D-830-U-SLR

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1884.6	6.7			
FM	(30°-60°)	8172.6	29.2			
FH	(60°-80°)	9888.2	35.3			G4/12000
FVH	(80°-90°)	952.8	3.4			G5
BL	(0°-30°)	1550.7	5.5	B3/2500		
BM	(30°-60°)	3441.4	12.3	B3/5000		
BH	(60°-80°)	1925.2	6.9	B3/2500		G3/2500
BVH	(80°-90°)	203.8	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



REPORT NUMBER: P965247

CATALOG NUMBER: NAV-SB3D-830-U-SLR

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3852.9	3852.9	3852.9	3852.9	3852.9	3852.9	3852.9	3852.9	3852.9	3852.9	3852.9
2.5°	4143.5	4111.7	4079.8	4046.0	4012.3	3978.3	3944.3	3911.7	3879.2	3847.7	3812.7
5°	4455.4	4385.2	4314.9	4244.8	4174.9	4104.4	4034.0	3968.2	3902.5	3840.4	3779.0
7.5°	4768.8	4652.9	4537.2	4430.2	4323.0	4218.8	4114.6	4022.8	3931.0	3846.2	3766.9
10°	5009.1	4862.6	4716.0	4574.6	4433.2	4306.6	4180.0	4071.4	3962.6	3858.1	3772.8
12.5°	5156.2	4995.1	4834.3	4674.1	4513.8	4364.4	4215.1	4092.3	3969.4	3859.5	3780.2
15°	5245.6	5077.8	4910.1	4736.1	4562.3	4390.4	4218.4	4076.1	3934.0	3812.3	3748.6
17.5°	5295.9	5125.7	4955.6	4765.8	4576.2	4376.5	4177.0	4005.9	3834.8	3691.7	3652.6
20°	5351.3	5174.5	4997.6	4789.1	4580.6	4338.7	4096.8	3884.9	3672.8	3506.2	3495.9
22.5°	5415.7	5235.0	5054.2	4820.5	4586.6	4292.3	3998.1	3742.8	3487.5	3297.7	3318.0
25°	5498.4	5321.3	5144.4	4877.2	4609.9	4246.5	3883.2	3584.1	3285.1	3090.8	3145.4
27.5°	5610.8	5441.9	5273.0	4965.9	4658.7	4215.8	3773.0	3439.1	3105.1	2928.1	2994.6
30°	5762.3	5599.2	5436.1	5080.8	4725.5	4201.6	3677.3	3317.8	2958.5	2809.8	2862.0
32.5°	5941.2	5779.7	5618.2	5200.6	4783.2	4183.7	3584.1	3213.3	2842.3	2722.6	2745.9
35°	6158.6	6003.9	5849.2	5337.3	4825.5	4150.3	3475.6	3110.6	2745.6	2645.7	2636.1
37.5°	6524.5	6327.3	6130.0	5490.3	4850.6	4093.1	3335.8	2989.6	2643.5	2556.2	2521.1
40°	7077.4	6790.0	6502.6	5684.5	4866.4	4014.3	3162.4	2845.3	2528.2	2449.1	2395.1
42.5°	7810.8	7395.9	6981.1	5938.7	4896.4	3933.0	2969.9	2686.1	2402.2	2329.3	2261.4
45°	8716.4	8156.7	7597.2	6273.2	4949.2	3857.5	2766.0	2517.0	2268.0	2194.0	2128.3
47.5°	9848.9	9061.3	8273.6	6629.5	4985.4	3795.1	2604.7	2383.1	2161.5	2066.2	2009.5
50°	11333.2	10145.9	8958.4	6960.1	4961.7	3727.1	2492.4	2294.3	2096.2	1970.8	1905.1
52.5°	13037.2	11285.2	9533.2	7174.8	4816.2	3612.2	2408.4	2235.7	2063.2	1919.1	1827.1
55°	14851.3	12295.3	9739.4	7127.4	4515.2	3421.8	2328.3	2193.3	2058.3	1924.2	1785.7
57.5°	16501.3	13011.1	9521.1	6794.5	4068.0	3153.3	2238.4	2143.1	2047.6	1929.5	1760.8
60°	17498.5	13190.1	8881.5	6174.8	3468.2	2804.7	2141.1	2066.2	1991.2	1913.2	1737.5
62.5°	16992.1	12436.8	7881.4	5337.0	2792.5	2387.4	1982.4	1932.5	1882.8	1873.2	1710.3
65°	15978.6	11370.9	6763.3	4482.1	2201.2	2012.1	1823.0	1799.5	1775.9	1777.1	1652.9
67.5°	14620.6	10102.6	5584.5	3644.7	1705.0	1651.3	1597.5	1610.7	1623.7	1620.4	1550.6
70°	12989.1	8718.5	4448.0	2869.7	1291.5	1306.9	1322.0	1382.9	1443.7	1443.7	1420.9
72.5°	11045.0	7218.3	3391.6	2193.9	996.2	1042.4	1088.9	1175.3	1261.5	1275.9	1276.2
75°	8585.5	5498.3	2411.1	1592.3	773.6	815.5	857.5	954.2	1050.9	1117.8	1112.1
77.5°	6134.2	3848.4	1562.4	1079.0	595.5	624.0	652.7	746.6	840.5	950.7	947.7
80°	4014.8	2479.4	944.0	695.2	446.5	458.3	470.2	549.7	629.0	760.7	760.2
82.5°	2333.8	1435.0	536.4	427.5	319.1	321.1	323.5	382.0	440.5	553.0	559.1
85°	1026.8	645.5	264.3	228.6	192.9	191.9	190.8	233.6	276.4	360.0	368.2
87.5°	317.9	211.5	105.0	94.8	84.6	83.5	82.5	99.9	117.6	152.3	162.7
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: P965247

CATALOG NUMBER: NAV-SB3D-830-U-SLR

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	3852.9	3852.9	3852.9	3852.9	3852.9	3852.9	3852.9	3852.9	3852.9	3852.9	3852.9
2.5°	3784.3	3756.1	3730.5	3705.1	3682.7	3660.4	3637.9	3615.6	3598.4	3580.8	3566.8
5°	3725.5	3671.8	3626.9	3582.1	3542.4	3502.8	3466.9	3430.8	3403.2	3375.3	3356.0
7.5°	3695.6	3624.5	3565.4	3506.2	3456.4	3406.4	3362.3	3318.4	3285.4	3252.6	3229.6
10°	3697.7	3622.6	3563.4	3504.3	3450.7	3396.8	3347.2	3297.7	3258.4	3218.9	3193.2
12.5°	3718.7	3657.4	3618.1	3579.1	3536.8	3494.8	3443.5	3392.3	3342.1	3291.8	3258.6
15°	3719.2	3690.0	3695.3	3700.7	3689.7	3678.7	3634.2	3589.8	3518.2	3446.7	3396.0
17.5°	3663.4	3674.0	3738.5	3803.0	3837.2	3871.4	3835.4	3799.7	3704.9	3610.2	3535.6
20°	3546.1	3596.4	3708.3	3820.4	3892.1	3963.8	3947.3	3930.6	3822.1	3713.9	3622.6
22.5°	3392.3	3466.8	3594.5	3722.5	3815.8	3909.0	3919.2	3929.0	3825.6	3722.1	3628.0
25°	3231.2	3317.0	3431.8	3546.9	3638.6	3730.5	3764.8	3799.0	3714.1	3629.3	3545.7
27.5°	3077.5	3160.3	3254.7	3349.1	3422.7	3496.3	3534.4	3572.7	3512.3	3452.0	3387.0
30°	2927.7	2993.6	3072.0	3150.3	3211.4	3272.6	3303.7	3334.7	3288.7	3242.6	3196.2
32.5°	2784.7	2823.6	2886.1	2948.8	3007.4	3066.1	3100.5	3135.1	3092.8	3050.4	3013.3
35°	2646.8	2657.5	2705.3	2752.9	2810.9	2869.0	2910.4	2951.8	2921.7	2891.6	2857.3
37.5°	2509.3	2497.4	2531.8	2565.9	2623.7	2681.7	2732.9	2784.0	2770.1	2756.2	2724.7
40°	2368.4	2341.6	2366.3	2391.0	2446.9	2502.7	2561.6	2620.6	2624.0	2627.3	2600.5
42.5°	2225.9	2190.3	2210.5	2230.7	2283.7	2336.7	2400.3	2463.9	2480.9	2497.9	2475.3
45°	2093.7	2059.2	2076.0	2093.3	2143.5	2193.8	2259.7	2325.6	2350.0	2374.4	2354.0
47.5°	1980.6	1951.6	1967.6	1983.4	2032.6	2081.7	2146.8	2211.8	2239.9	2268.0	2253.8
50°	1879.3	1853.7	1878.5	1903.5	1950.0	1996.2	2054.5	2112.7	2148.8	2184.9	2184.0
52.5°	1801.6	1776.4	1813.8	1851.0	1893.6	1936.0	1990.3	2044.8	2087.4	2130.2	2137.8
55°	1745.5	1705.4	1758.5	1811.4	1857.3	1903.1	1950.7	1998.1	2043.4	2088.7	2099.4
57.5°	1702.3	1643.8	1700.9	1757.9	1811.7	1865.5	1912.5	1959.7	2005.4	2050.9	2061.7
60°	1661.6	1585.7	1635.8	1685.7	1747.5	1809.3	1857.1	1905.1	1950.9	1996.7	2008.5
62.5°	1615.4	1520.6	1552.4	1584.1	1656.2	1728.4	1779.3	1830.3	1872.4	1914.3	1925.7
65°	1552.1	1451.1	1463.4	1475.5	1552.7	1630.1	1678.8	1727.6	1764.5	1801.5	1813.2
67.5°	1466.7	1382.6	1378.8	1374.9	1446.3	1517.6	1563.9	1610.1	1641.9	1673.9	1685.3
70°	1361.1	1301.3	1288.0	1274.8	1337.4	1400.1	1440.0	1480.0	1508.8	1537.6	1548.6
72.5°	1235.2	1194.3	1174.8	1155.4	1204.8	1254.1	1290.2	1326.1	1354.4	1382.6	1395.6
75°	1080.7	1049.0	1030.3	1011.6	1048.3	1084.9	1117.6	1150.3	1176.0	1201.7	1215.3
77.5°	922.4	897.2	878.2	859.3	889.2	918.9	947.0	975.1	1002.1	1029.0	1041.7
80°	739.1	717.8	702.0	686.0	710.8	735.5	759.2	782.9	803.4	823.8	840.7
82.5°	548.8	538.4	527.3	516.0	513.9	511.9	503.6	495.3	539.0	582.8	611.5
85°	357.0	345.9	333.4	320.8	310.2	299.4	276.4	253.6	294.5	335.6	371.0
87.5°	158.2	153.8	151.4	149.0	148.6	148.1	130.7	113.1	130.3	147.6	161.8
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: P965247

CATALOG NUMBER: NAV-SB3D-830-U-SLR

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	3852.9	3852.9	3852.9	3852.9	3852.9	3852.9	3852.9	3852.9	3852.9	3852.9	3852.9
2.5°	3552.8	3541.9	3530.9	3520.9	3510.6	3498.1	3510.6	3520.9	3530.9	3541.9	3552.8
5°	3336.6	3322.8	3309.1	3298.7	3288.1	3277.7	3288.1	3298.7	3309.1	3322.8	3336.6
7.5°	3206.5	3190.7	3175.0	3165.6	3156.3	3149.1	3156.3	3165.6	3175.0	3190.7	3206.5
10°	3167.1	3152.3	3137.3	3129.3	3121.3	3118.2	3121.3	3129.3	3137.3	3152.3	3167.1
12.5°	3225.3	3208.6	3192.1	3185.2	3178.4	3177.3	3178.4	3185.2	3192.1	3208.6	3225.3
15°	3345.5	3322.3	3299.3	3290.4	3281.4	3280.7	3281.4	3290.4	3299.3	3322.3	3345.5
17.5°	3461.1	3426.8	3392.3	3381.2	3369.8	3367.9	3369.8	3381.2	3392.3	3426.8	3461.1
20°	3531.3	3487.5	3443.4	3429.3	3415.3	3410.9	3415.3	3429.3	3443.4	3487.5	3531.3
22.5°	3533.9	3487.6	3441.1	3425.7	3410.1	3403.4	3410.1	3425.7	3441.1	3487.6	3533.9
25°	3462.2	3422.1	3382.0	3367.3	3352.9	3344.3	3352.9	3367.3	3382.0	3422.1	3462.2
27.5°	3322.1	3295.3	3268.2	3261.5	3254.9	3252.6	3254.9	3261.5	3268.2	3295.3	3322.1
30°	3149.4	3135.7	3121.8	3121.8	3121.8	3124.0	3121.8	3121.8	3121.8	3135.7	3149.4
32.5°	2976.2	2967.2	2958.1	2959.3	2960.6	2962.9	2960.6	2959.3	2958.1	2967.2	2976.2
35°	2823.2	2809.4	2795.8	2792.8	2789.8	2788.4	2789.8	2792.8	2795.8	2809.4	2823.2
37.5°	2693.1	2668.1	2643.3	2630.0	2616.9	2609.5	2616.9	2630.0	2643.3	2668.1	2693.1
40°	2573.8	2537.4	2501.3	2476.7	2452.5	2438.0	2452.5	2476.7	2501.3	2537.4	2573.8
42.5°	2452.8	2407.7	2362.6	2327.0	2291.4	2268.0	2291.4	2327.0	2362.6	2407.7	2452.8
45°	2333.8	2282.2	2230.7	2188.9	2147.1	2120.1	2147.1	2188.9	2230.7	2282.2	2333.8
47.5°	2239.6	2193.8	2147.9	2109.2	2070.6	2044.8	2070.6	2109.2	2147.9	2193.8	2239.6
50°	2183.5	2146.8	2110.1	2074.3	2038.5	2013.7	2038.5	2074.3	2110.1	2146.8	2183.5
52.5°	2145.5	2115.7	2085.9	2053.8	2021.8	1998.9	2021.8	2053.8	2085.9	2115.7	2145.5
55°	2110.1	2084.0	2058.0	2029.9	2001.8	1981.1	2001.8	2029.9	2058.0	2084.0	2110.1
57.5°	2072.5	2046.2	2019.9	1992.1	1964.1	1942.7	1964.1	1992.1	2019.9	2046.2	2072.5
60°	2020.4	1994.6	1969.0	1940.3	1911.6	1889.5	1911.6	1940.3	1969.0	1994.6	2020.4
62.5°	1937.1	1913.9	1890.7	1860.5	1830.3	1803.7	1830.3	1860.5	1890.7	1913.9	1937.1
65°	1824.7	1802.4	1780.1	1750.8	1721.7	1698.7	1721.7	1750.8	1780.1	1802.4	1824.7
67.5°	1696.6	1676.0	1655.6	1628.4	1601.2	1580.4	1601.2	1628.4	1655.6	1676.0	1696.6
70°	1559.5	1542.8	1526.1	1500.1	1474.1	1450.4	1474.1	1500.1	1526.1	1542.8	1559.5
72.5°	1408.7	1394.8	1380.9	1356.1	1331.4	1308.4	1331.4	1356.1	1380.9	1394.8	1408.7
75°	1228.9	1222.1	1215.3	1194.4	1173.6	1151.7	1173.6	1194.4	1215.3	1222.1	1228.9
77.5°	1054.4	1045.0	1035.2	1014.2	993.2	975.8	993.2	1014.2	1035.2	1045.0	1054.4
80°	857.5	853.4	849.4	821.1	792.7	759.9	792.7	821.1	849.4	853.4	857.5
82.5°	640.2	638.4	636.5	612.6	588.8	567.7	588.8	612.6	636.5	638.4	640.2
85°	406.6	403.6	400.7	382.0	363.4	344.5	363.4	382.0	400.7	403.6	406.6
87.5°	176.2	172.7	168.8	159.4	149.6	140.4	149.6	159.4	168.8	172.7	176.2
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: P965247

CATALOG NUMBER: NAV-SB3D-830-U-SLR

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	3852.9	3852.9	3852.9	3852.9	3852.9	3852.9	3852.9	3852.9	3852.9	3852.9	3852.9
2.5°	3566.8	3580.8	3598.4	3615.6	3637.9	3660.4	3682.7	3705.1	3730.5	3756.1	3784.3
5°	3356.0	3375.3	3403.2	3430.8	3466.9	3502.8	3542.4	3582.1	3626.9	3671.8	3725.5
7.5°	3229.6	3252.6	3285.4	3318.4	3362.3	3406.4	3456.4	3506.2	3565.4	3624.5	3695.6
10°	3193.2	3218.9	3258.4	3297.7	3347.2	3396.8	3450.7	3504.3	3563.4	3622.6	3697.7
12.5°	3258.6	3291.8	3342.1	3392.3	3443.5	3494.8	3536.8	3579.1	3618.1	3657.4	3718.7
15°	3396.0	3446.7	3518.2	3589.8	3634.2	3678.7	3689.7	3700.7	3695.3	3690.0	3719.2
17.5°	3535.6	3610.2	3704.9	3799.7	3835.4	3871.4	3837.2	3803.0	3738.5	3674.0	3663.4
20°	3622.6	3713.9	3822.1	3930.6	3947.3	3963.8	3892.1	3820.4	3708.3	3596.4	3546.1
22.5°	3628.0	3722.1	3825.6	3929.0	3919.2	3909.0	3815.8	3722.5	3594.5	3466.8	3392.3
25°	3545.7	3629.3	3714.1	3799.0	3764.8	3730.5	3638.6	3546.9	3431.8	3317.0	3231.2
27.5°	3387.0	3452.0	3512.3	3572.7	3534.4	3496.3	3422.7	3349.1	3254.7	3160.3	3077.5
30°	3196.2	3242.6	3288.7	3334.7	3303.7	3272.6	3211.4	3150.3	3072.0	2993.6	2927.7
32.5°	3013.3	3050.4	3092.8	3135.1	3100.5	3066.1	3007.4	2948.8	2886.1	2823.6	2784.7
35°	2857.3	2891.6	2921.7	2951.8	2910.4	2869.0	2810.9	2752.9	2705.3	2657.5	2646.8
37.5°	2724.7	2756.2	2770.1	2784.0	2732.9	2681.7	2623.7	2565.9	2531.8	2497.4	2509.3
40°	2600.5	2627.3	2624.0	2620.6	2561.6	2502.7	2446.9	2391.0	2366.3	2341.6	2368.4
42.5°	2475.3	2497.9	2480.9	2463.9	2400.3	2336.7	2283.7	2230.7	2210.5	2190.3	2225.9
45°	2354.0	2374.4	2350.0	2325.6	2259.7	2193.8	2143.5	2093.3	2076.0	2059.2	2093.7
47.5°	2253.8	2268.0	2239.9	2211.8	2146.8	2081.7	2032.6	1983.4	1967.6	1951.6	1980.6
50°	2184.0	2184.9	2148.8	2112.7	2054.5	1996.2	1950.0	1903.5	1878.5	1853.7	1879.3
52.5°	2137.8	2130.2	2087.4	2044.8	1990.3	1936.0	1893.6	1851.0	1813.8	1776.4	1801.6
55°	2099.4	2088.7	2043.4	1998.1	1950.7	1903.1	1857.3	1811.4	1758.5	1705.4	1745.5
57.5°	2061.7	2050.9	2005.4	1959.7	1912.5	1865.5	1811.7	1757.9	1700.9	1643.8	1702.3
60°	2008.5	1996.7	1950.9	1905.1	1857.1	1809.3	1747.5	1685.7	1635.8	1585.7	1661.6
62.5°	1925.7	1914.3	1872.4	1830.3	1779.3	1728.4	1656.2	1584.1	1552.4	1520.6	1615.4
65°	1813.2	1801.5	1764.5	1727.6	1678.8	1630.1	1552.7	1475.5	1463.4	1451.1	1552.1
67.5°	1685.3	1673.9	1641.9	1610.1	1563.9	1517.6	1446.3	1374.9	1378.8	1382.6	1466.7
70°	1548.6	1537.6	1508.8	1480.0	1440.0	1400.1	1337.4	1274.8	1288.0	1301.3	1361.1
72.5°	1395.6	1382.6	1354.4	1326.1	1290.2	1254.1	1204.8	1155.4	1174.8	1194.3	1235.2
75°	1215.3	1201.7	1176.0	1150.3	1117.6	1084.9	1048.3	1011.6	1030.3	1049.0	1080.7
77.5°	1041.7	1029.0	1002.1	975.1	947.0	918.9	889.2	859.3	878.2	897.2	922.4
80°	840.7	823.8	803.4	782.9	759.2	735.5	710.8	686.0	702.0	717.8	739.1
82.5°	611.5	582.8	539.0	495.3	503.6	511.9	513.9	516.0	527.3	538.4	548.8
85°	371.0	335.6	294.5	253.6	276.4	299.4	310.2	320.8	333.4	345.9	357.0
87.5°	161.8	147.6	130.3	113.1	130.7	148.1	148.6	149.0	151.4	153.8	158.2
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: P965247

CATALOG NUMBER: NAV-SB3D-830-U-SLR

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	3852.9	3852.9	3852.9	3852.9	3852.9	3852.9	3852.9	3852.9	3852.9	3852.9	3852.9
2.5°	3812.7	3847.7	3879.2	3911.7	3944.3	3978.3	4012.3	4046.0	4079.8	4111.7	4143.5
5°	3779.0	3840.4	3902.5	3968.2	4034.0	4104.4	4174.9	4244.8	4314.9	4385.2	4455.4
7.5°	3766.9	3846.2	3931.0	4022.8	4114.6	4218.8	4323.0	4430.2	4537.2	4652.9	4768.8
10°	3772.8	3858.1	3962.6	4071.4	4180.0	4306.6	4433.2	4574.6	4716.0	4862.6	5009.1
12.5°	3780.2	3859.5	3969.4	4092.3	4215.1	4364.4	4513.8	4674.1	4834.3	4995.1	5156.2
15°	3748.6	3812.3	3934.0	4076.1	4218.4	4390.4	4562.3	4736.1	4910.1	5077.8	5245.6
17.5°	3652.6	3691.7	3834.8	4005.9	4177.0	4376.5	4576.2	4765.8	4955.6	5125.7	5295.9
20°	3495.9	3506.2	3672.8	3884.9	4096.8	4338.7	4580.6	4789.1	4997.6	5174.5	5351.3
22.5°	3318.0	3297.7	3487.5	3742.8	3998.1	4292.3	4586.6	4820.5	5054.2	5235.0	5415.7
25°	3145.4	3090.8	3285.1	3584.1	3883.2	4246.5	4609.9	4877.2	5144.4	5321.3	5498.4
27.5°	2994.6	2928.1	3105.1	3439.1	3773.0	4215.8	4658.7	4965.9	5273.0	5441.9	5610.8
30°	2862.0	2809.8	2958.5	3317.8	3677.3	4201.6	4725.5	5080.8	5436.1	5599.2	5762.3
32.5°	2745.9	2722.6	2842.3	3213.3	3584.1	4183.7	4783.2	5200.6	5618.2	5779.7	5941.2
35°	2636.1	2645.7	2745.6	3110.6	3475.6	4150.3	4825.5	5337.3	5849.2	6003.9	6158.6
37.5°	2521.1	2556.2	2643.5	2989.6	3335.8	4093.1	4850.6	5490.3	6130.0	6327.3	6524.5
40°	2395.1	2449.1	2528.2	2845.3	3162.4	4014.3	4866.4	5684.5	6502.6	6790.0	7077.4
42.5°	2261.4	2329.3	2402.2	2686.1	2969.9	3933.0	4896.4	5938.7	6981.1	7395.9	7810.8
45°	2128.3	2194.0	2268.0	2517.0	2766.0	3857.5	4949.2	6273.2	7597.2	8156.7	8716.4
47.5°	2009.5	2066.2	2161.5	2383.1	2604.7	3795.1	4985.4	6629.5	8273.6	9061.3	9848.9
50°	1905.1	1970.8	2096.2	2294.3	2492.4	3727.1	4961.7	6960.1	8958.4	10145.9	11333.2
52.5°	1827.1	1919.1	2063.2	2235.7	2408.4	3612.2	4816.2	7174.8	9533.2	11285.2	13037.2
55°	1785.7	1924.2	2058.3	2193.3	2328.3	3421.8	4515.2	7127.4	9739.4	12295.3	14851.3
57.5°	1760.8	1929.5	2047.6	2143.1	2238.4	3153.3	4068.0	6794.5	9521.1	13011.1	16501.3
60°	1737.5	1913.2	1991.2	2066.2	2141.1	2804.7	3468.2	6174.8	8881.5	13190.1	17498.5
62.5°	1710.3	1873.2	1882.8	1932.5	1982.4	2387.4	2792.5	5337.0	7881.4	12436.8	16992.1
65°	1652.9	1777.1	1775.9	1799.5	1823.0	2012.1	2201.2	4482.1	6763.3	11370.9	15978.6
67.5°	1550.6	1620.4	1623.7	1610.7	1597.5	1651.3	1705.0	3644.7	5584.5	10102.6	14620.6
70°	1420.9	1443.7	1443.7	1382.9	1322.0	1306.9	1291.5	2869.7	4448.0	8718.5	12989.1
72.5°	1276.2	1275.9	1261.5	1175.3	1088.9	1042.4	996.2	2193.9	3391.6	7218.3	11045.0
75°	1112.1	1117.8	1050.9	954.2	857.5	815.5	773.6	1592.3	2411.1	5498.3	8585.5
77.5°	947.7	950.7	840.5	746.6	652.7	624.0	595.5	1079.0	1562.4	3848.4	6134.2
80°	760.2	760.7	629.0	549.7	470.2	458.3	446.5	695.2	944.0	2479.4	4014.8
82.5°	559.1	553.0	440.5	382.0	323.5	321.1	319.1	427.5	536.4	1435.0	2333.8
85°	368.2	360.0	276.4	233.6	190.8	191.9	192.9	228.6	264.3	645.5	1026.8
87.5°	162.7	152.3	117.6	99.9	82.5	83.5	84.6	94.8	105.0	211.5	317.9
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: P965247

CATALOG NUMBER: NAV-SB3D-830-U-SLR

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	3852.9	3852.9	3852.9	3852.9	3852.9	3852.9	3852.9	3852.9	3852.9	3852.9	3852.9
2.5°	4159.1	4174.9	4197.3	4219.6	4232.8	4246.2	4252.8	4259.5	4256.5	4259.5	4252.8
5°	4510.2	4565.2	4619.7	4674.2	4703.7	4733.3	4751.2	4769.2	4782.9	4769.2	4751.2
7.5°	4858.1	4947.3	5027.5	5107.9	5156.2	5204.5	5230.7	5256.7	5269.3	5256.7	5230.7
10°	5114.6	5220.2	5314.4	5408.5	5465.6	5522.4	5547.8	5573.1	5582.8	5573.1	5547.8
12.5°	5270.7	5384.9	5470.0	5554.9	5596.3	5637.7	5651.6	5665.5	5667.0	5665.5	5651.6
15°	5344.3	5443.1	5496.4	5549.9	5551.4	5552.8	5538.1	5523.3	5505.9	5523.3	5538.1
17.5°	5362.6	5429.2	5430.2	5431.2	5371.3	5311.4	5256.6	5201.6	5162.8	5201.6	5256.6
20°	5374.6	5398.0	5327.6	5257.4	5125.3	4993.1	4896.8	4800.6	4741.4	4800.6	4896.8
22.5°	5385.2	5354.7	5209.3	5063.8	4869.4	4674.9	4554.6	4434.3	4368.9	4434.3	4554.6
25°	5402.4	5306.2	5085.3	4864.4	4628.4	4392.2	4265.7	4139.5	4077.7	4139.5	4265.7
27.5°	5439.1	5267.1	4974.5	4682.0	4420.3	4158.6	4034.2	3909.9	3851.4	3909.9	4034.2
30°	5506.1	5250.0	4889.9	4529.8	4257.1	3984.5	3869.1	3753.6	3699.1	3753.6	3869.1
32.5°	5590.5	5239.7	4832.3	4424.8	4168.6	3912.3	3821.7	3730.9	3691.7	3730.9	3821.7
35°	5729.2	5300.1	4875.4	4451.0	4272.9	4095.1	4074.0	4052.8	4049.6	4052.8	4074.0
37.5°	6019.5	5514.4	5128.6	4742.7	4731.1	4719.6	4816.3	4912.9	4963.3	4912.9	4816.3
40°	6528.2	5978.9	5692.0	5405.0	5607.6	5810.1	6045.1	6280.3	6397.3	6280.3	6045.1
42.5°	7265.8	6720.8	6555.6	6390.3	6832.0	7273.8	7701.3	8129.0	8380.0	8129.0	7701.3
45°	8226.9	7737.2	7664.2	7591.3	8299.0	9006.9	9709.4	10412.2	10838.7	10412.2	9709.4
47.5°	9372.7	8896.3	8881.5	8866.8	9887.8	10908.5	11937.0	12965.5	13569.5	12965.5	11937.0
50°	10745.0	10156.8	10159.4	10161.8	11477.7	12793.5	14151.3	15509.0	16329.8	15509.0	14151.3
52.5°	12324.9	11612.7	11540.7	11468.5	13040.4	14612.1	16292.0	17971.6	18955.5	17971.6	16292.0
55°	14147.6	13443.8	13163.0	12882.3	14631.6	16380.7	18383.4	20385.9	21556.2	20385.9	18383.4
57.5°	16118.0	15734.7	15171.5	14608.5	16374.9	18141.2	20409.5	22677.6	24128.7	22677.6	20409.5
60°	18093.7	18689.1	17989.8	17290.5	18962.1	20633.7	23062.2	25490.7	27059.1	25490.7	23062.2
62.5°	18618.6	20245.1	20166.3	20087.3	21618.6	23149.9	25460.6	27770.9	29220.6	27770.9	25460.6
65°	17505.2	19031.7	19333.8	19635.6	21581.6	23527.7	25768.2	28008.5	29242.7	28008.5	25768.2
67.5°	16072.5	17524.4	17666.0	17807.5	19835.1	21862.5	24112.6	26362.7	27329.7	26362.7	24112.6
70°	14568.3	16147.6	16210.9	16274.3	18087.6	19900.6	21836.9	23773.1	24310.5	23773.1	21836.9
72.5°	12857.1	14669.4	14715.0	14760.4	16179.0	17597.6	19047.8	20497.8	20552.3	20497.8	19047.8
75°	10461.2	12336.7	12505.1	12673.5	13777.2	14880.8	15901.7	16922.6	16649.1	16922.6	15901.7
77.5°	7885.0	9635.9	9877.0	10118.0	10956.9	11796.0	12520.1	13244.2	12774.1	13244.2	12520.1
80°	5487.8	6960.7	7260.2	7559.8	8193.4	8826.8	9207.1	9587.1	8830.9	9587.1	9207.1
82.5°	3340.8	4347.9	4682.5	5017.2	5453.4	5889.5	6048.1	6206.7	5612.3	6206.7	6048.1
85°	1561.3	2095.7	2380.4	2665.0	3023.3	3381.6	3471.6	3561.7	3085.6	3561.7	3471.6
87.5°	497.5	677.1	835.9	994.8	1173.9	1353.1	1360.8	1368.4	1148.8	1368.4	1360.8
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: P965247

CATALOG NUMBER: NAV-SB3D-830-U-SLR

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	3852.9	3852.9	3852.9	3852.9	3852.9	3852.9	3852.9
2.5°	4246.2	4232.8	4219.6	4197.3	4174.9	4159.1	4143.5
5°	4733.3	4703.7	4674.2	4619.7	4565.2	4510.2	4455.4
7.5°	5204.5	5156.2	5107.9	5027.5	4947.3	4858.1	4768.8
10°	5522.4	5465.6	5408.5	5314.4	5220.2	5114.6	5009.1
12.5°	5637.7	5596.3	5554.9	5470.0	5384.9	5270.7	5156.2
15°	5552.8	5551.4	5549.9	5496.4	5443.1	5344.3	5245.6
17.5°	5311.4	5371.3	5431.2	5430.2	5429.2	5362.6	5295.9
20°	4993.1	5125.3	5257.4	5327.6	5398.0	5374.6	5351.3
22.5°	4674.9	4869.4	5063.8	5209.3	5354.7	5385.2	5415.7
25°	4392.2	4628.4	4864.4	5085.3	5306.2	5402.4	5498.4
27.5°	4158.6	4420.3	4682.0	4974.5	5267.1	5439.1	5610.8
30°	3984.5	4257.1	4529.8	4889.9	5250.0	5506.1	5762.3
32.5°	3912.3	4168.6	4424.8	4832.3	5239.7	5590.5	5941.2
35°	4095.1	4272.9	4451.0	4875.4	5300.1	5729.2	6158.6
37.5°	4719.6	4731.1	4742.7	5128.6	5514.4	6019.5	6524.5
40°	5810.1	5607.6	5405.0	5692.0	5978.9	6528.2	7077.4
42.5°	7273.8	6832.0	6390.3	6555.6	6720.8	7265.8	7810.8
45°	9006.9	8299.0	7591.3	7664.2	7737.2	8226.9	8716.4
47.5°	10908.5	9887.8	8866.8	8881.5	8896.3	9372.7	9848.9
50°	12793.5	11477.7	10161.8	10159.4	10156.8	10745.0	11333.2
52.5°	14612.1	13040.4	11468.5	11540.7	11612.7	12324.9	13037.2
55°	16380.7	14631.6	12882.3	13163.0	13443.8	14147.6	14851.3
57.5°	18141.2	16374.9	14608.5	15171.5	15734.7	16118.0	16501.3
60°	20633.7	18962.1	17290.5	17989.8	18689.1	18093.7	17498.5
62.5°	23149.9	21618.6	20087.3	20166.3	20245.1	18618.6	16992.1
65°	23527.7	21581.6	19635.6	19333.8	19031.7	17505.2	15978.6
67.5°	21862.5	19835.1	17807.5	17666.0	17524.4	16072.5	14620.6
70°	19900.6	18087.6	16274.3	16210.9	16147.6	14568.3	12989.1
72.5°	17597.6	16179.0	14760.4	14715.0	14669.4	12857.1	11045.0
75°	14880.8	13777.2	12673.5	12505.1	12336.7	10461.2	8585.5
77.5°	11796.0	10956.9	10118.0	9877.0	9635.9	7885.0	6134.2
80°	8826.8	8193.4	7559.8	7260.2	6960.7	5487.8	4014.8
82.5°	5889.5	5453.4	5017.2	4682.5	4347.9	3340.8	2333.8
85°	3381.6	3023.3	2665.0	2380.4	2095.7	1561.3	1026.8
87.5°	1353.1	1173.9	994.8	835.9	677.1	497.5	317.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)