

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: P963660

Luminaire Tested: **NAV-SB3A-830-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963660
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3A-830-U-SL3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12114.4 lumens
Efficiency: N/A
Efficacy: 143.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 84.7
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



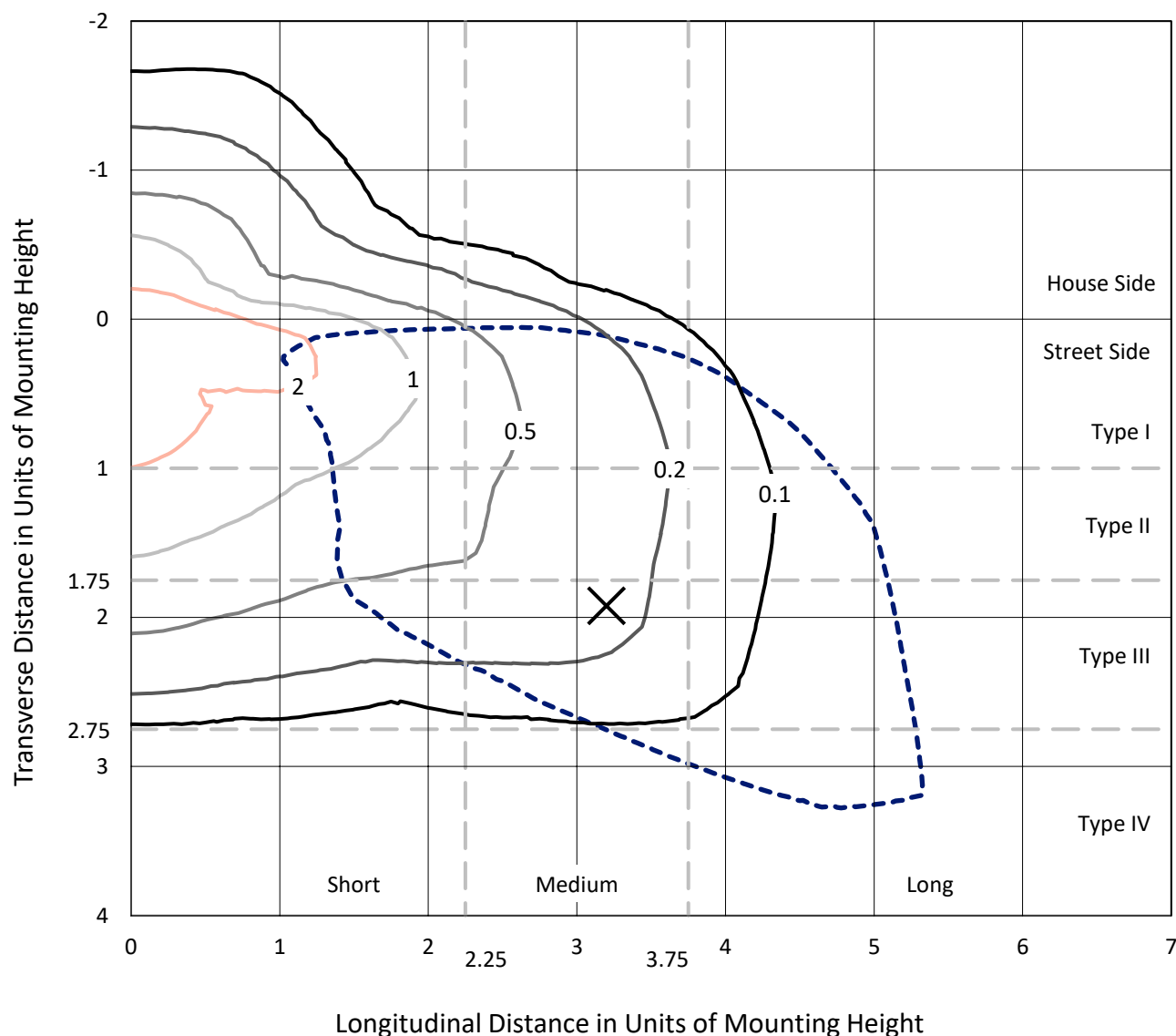
REPORT NUMBER: P963660

CATALOG NUMBER: NAV-SB3A-830-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

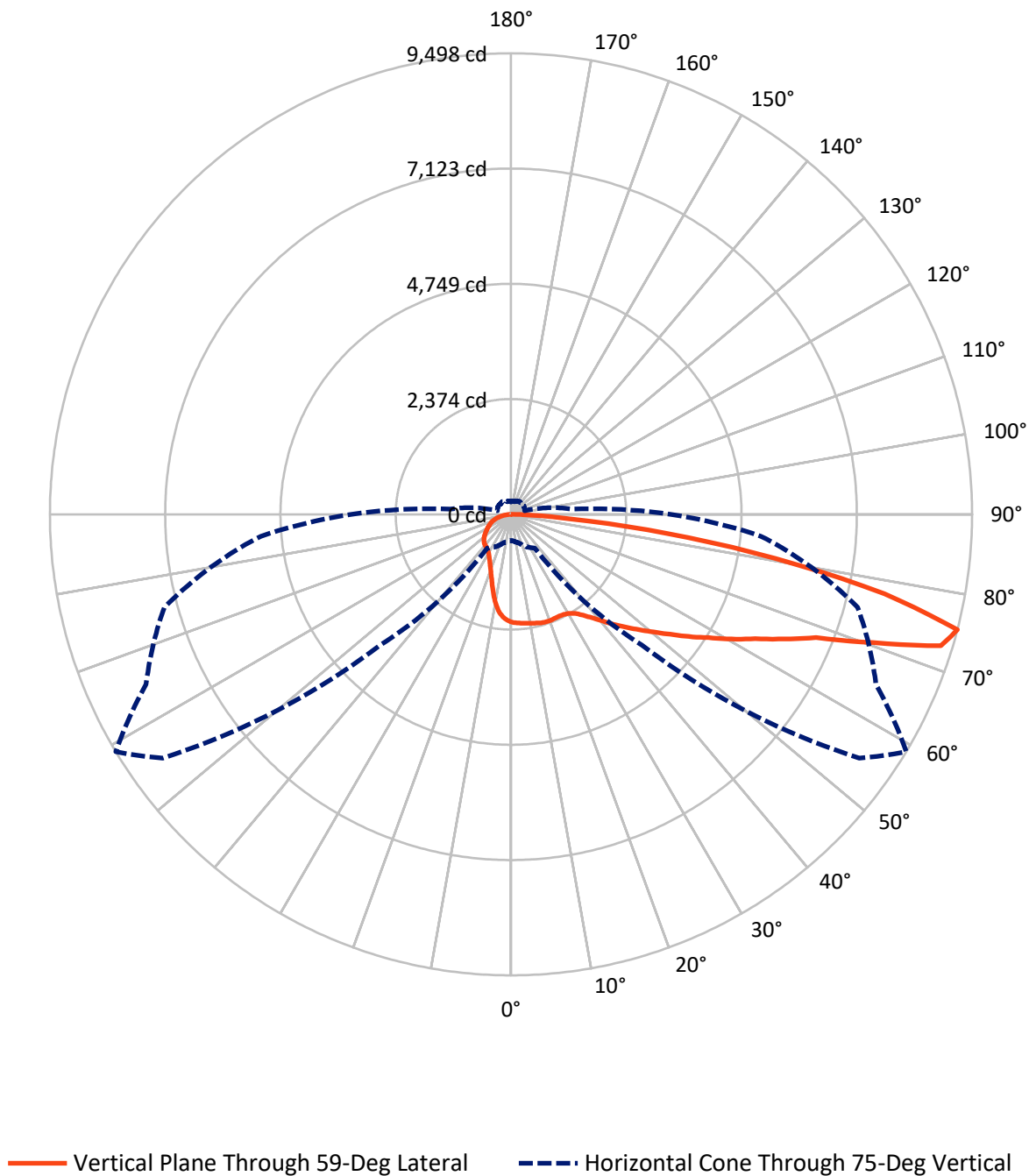


Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
Type IV - Medium - N/A

REPORT NUMBER: P963660

CATALOG NUMBER: NAV-SB3A-830-U-SL3

Luminous Intensity Polar Plot



REPORT NUMBER: P963660

CATALOG NUMBER: NAV-SB3A-830-U-SL3

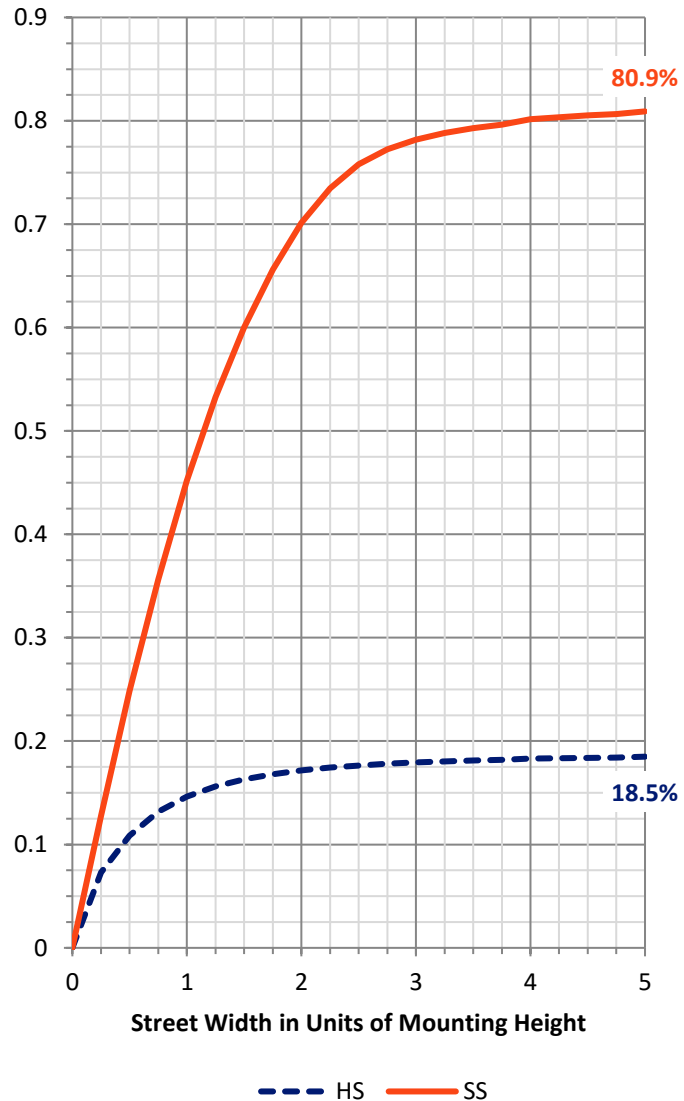
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2272.1	0.0	2272.1
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	9842.3	0.0	9842.3
	% Fixture	81.2	0.0	81.2
Total	Lumens	12114.4	0.0	12114.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.4	1.6
10°-20°	509.6	4.2
20°-30°	774.1	6.4
30°-40°	1150.7	9.5
40°-50°	1711.2	14.1
50°-60°	2322.8	19.2
60°-70°	2835.7	23.4
70°-80°	2225.5	18.4
80°-90°	385.5	3.2
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°	12114.4	100.0
0°-180°	12114.4	100.0

Coefficient of Utilization



REPORT NUMBER: P963660

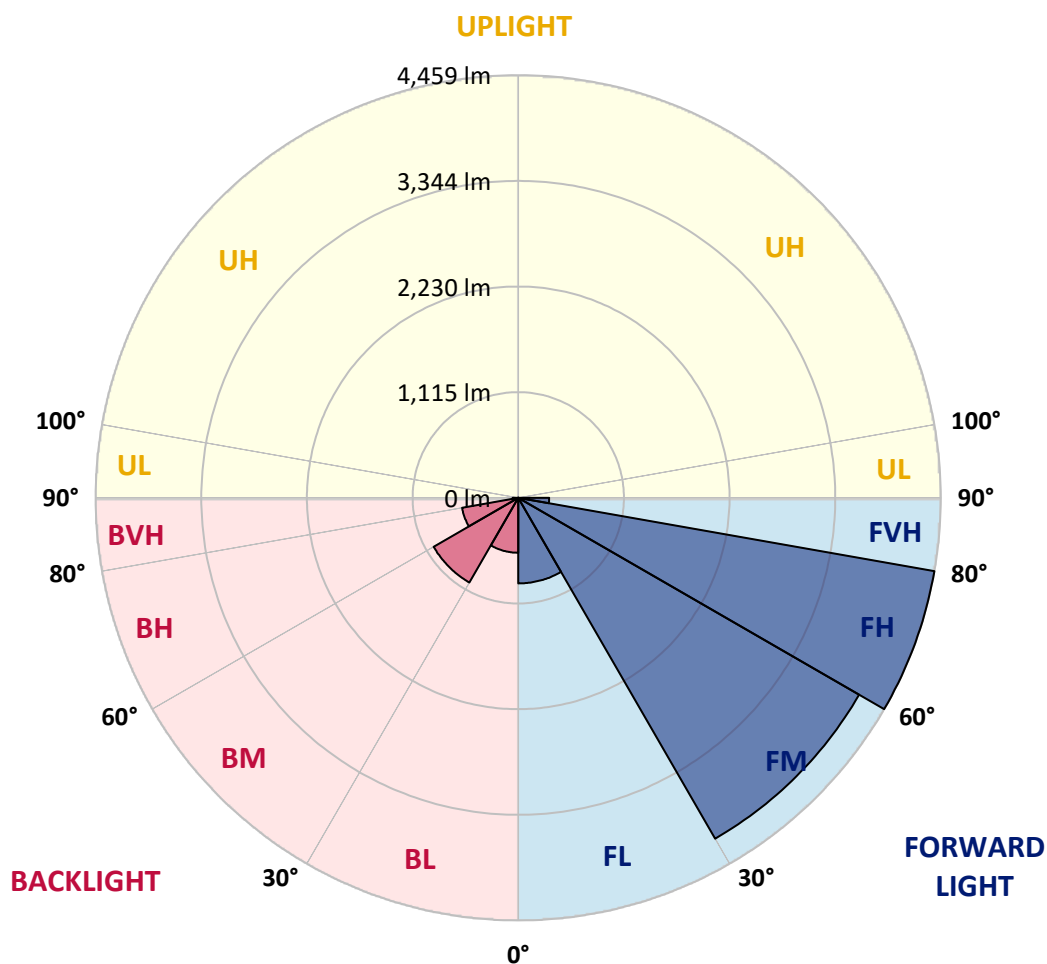
CATALOG NUMBER: NAV-SB3A-830-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	903.3	7.5			
FM	(30°-60°)	4153.3	34.3			
FH	(60°-80°)	4459.2	36.8			G2/5000
FVH	(80°-90°)	326.5	2.7			G3/500
BL	(0°-30°)	579.8	4.8	B2/1000		
BM	(30°-60°)	1031.3	8.5	B2/2500		
BH	(60°-80°)	602.0	5.0	B2/1000		G2/1000
BVH	(80°-90°)	59.0	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Medium



REPORT NUMBER: P963660

CATALOG NUMBER: NAV-SB3A-830-U-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	2223.6	2223.6	2223.6	2223.6	2223.6	2223.6	2223.6	2223.6	2223.6	2223.6	2223.6
2.5°	2242.5	2234.7	2242.5	2239.2	2237.9	2235.3	2235.9	2240.5	2237.9	2241.2	2230.1
5°	2227.5	2222.9	2230.7	2228.8	2237.3	2238.6	2247.0	2252.2	2255.5	2256.1	2247.7
7.5°	2202.7	2198.2	2209.3	2218.4	2236.7	2241.9	2259.4	2267.9	2272.4	2280.3	2267.9
10°	2112.1	2110.2	2137.5	2172.1	2215.1	2241.9	2268.5	2282.9	2290.1	2310.9	2296.6
12.5°	1951.8	1954.5	1990.2	2056.8	2142.8	2228.8	2279.0	2299.8	2310.9	2337.0	2330.4
15°	1798.7	1798.1	1837.1	1908.1	2028.7	2171.5	2284.2	2320.0	2338.9	2377.4	2372.2
17.5°	1710.0	1707.4	1734.8	1788.9	1901.0	2083.5	2271.2	2331.2	2371.5	2419.7	2415.2
20°	1693.7	1688.6	1702.8	1729.6	1809.1	1987.1	2237.3	2331.2	2397.6	2460.1	2457.5
22.5°	1753.1	1744.6	1738.7	1735.4	1770.7	1907.5	2198.8	2323.3	2436.0	2518.1	2513.6
25°	1872.4	1859.2	1829.3	1800.0	1789.5	1871.6	2164.9	2321.3	2493.4	2596.3	2579.4
27.5°	2065.3	2049.0	1988.3	1918.0	1854.7	1889.9	2149.9	2333.1	2556.6	2679.1	2645.2
30°	2304.4	2286.8	2210.5	2102.4	1989.0	1957.6	2168.8	2367.6	2637.4	2789.2	2722.8
32.5°	2518.8	2499.3	2434.1	2324.0	2170.8	2075.0	2228.8	2433.5	2764.5	2942.4	2839.5
35°	2709.1	2686.3	2627.6	2526.0	2393.7	2239.8	2337.0	2550.1	2945.0	3191.3	2997.8
37.5°	2895.5	2868.8	2804.9	2697.4	2604.8	2459.5	2486.2	2700.0	3184.9	3493.7	3207.6
40°	3104.0	3065.6	2988.0	2881.8	2791.9	2717.0	2682.4	2883.7	3428.5	3831.3	3469.6
42.5°	3306.0	3269.5	3177.0	3086.5	2973.7	2952.2	2909.8	3098.8	3695.1	4202.1	3735.5
45°	3523.7	3480.1	3367.9	3253.2	3182.2	3108.6	3130.0	3313.8	3956.4	4580.1	4014.4
47.5°	3727.7	3678.8	3546.5	3418.8	3379.7	3240.2	3332.1	3550.4	4228.2	4963.4	4290.8
50°	3837.8	3789.6	3679.4	3564.1	3533.5	3402.5	3551.1	3810.4	4513.0	5345.2	4556.0
52.5°	3929.7	3877.6	3733.6	3669.7	3660.6	3579.1	3820.9	4107.7	4797.8	5682.8	4812.2
55°	4027.4	3969.5	3785.7	3728.3	3770.1	3777.2	4140.9	4444.6	5098.9	6011.9	5053.9
57.5°	4140.2	4066.6	3835.9	3777.8	3877.0	4009.2	4508.5	4793.8	5394.8	6316.9	5268.9
60°	4246.5	4172.2	3932.3	3856.8	3992.3	4278.3	4930.0	5216.8	5729.7	6588.6	5472.3
62.5°	4267.3	4206.1	4009.2	4008.6	4148.7	4592.5	5429.3	5643.6	6022.3	6857.1	5654.7
65°	3906.3	3867.8	3751.2	4002.7	4372.9	5044.7	5985.2	6189.8	6394.5	7091.8	5815.0
67.5°	2973.0	2978.2	2969.7	3455.3	4191.7	5694.5	6790.0	6774.3	6853.9	7355.0	5999.5
70°	1359.5	1390.1	1589.5	2385.2	3358.2	5769.4	8120.8	7918.1	7430.6	7695.9	6159.1
72.5°	734.4	757.9	839.4	1155.5	2018.9	5129.5	9115.2	9259.3	8197.6	7925.3	5983.8
75°	538.9	552.0	608.6	734.4	847.9	3812.4	8758.8	9497.9	8293.5	7390.2	5167.3
77.5°	403.4	409.3	455.5	582.0	434.0	2009.8	6998.6	7866.0	7099.6	6071.9	3817.0
80°	292.6	299.1	333.6	436.6	304.3	735.1	4805.6	5521.2	4862.3	3870.4	1902.3
82.5°	202.0	204.6	219.7	297.1	212.5	285.5	2726.7	3237.7	2714.3	1358.1	513.5
85°	121.9	125.2	131.6	173.3	120.5	135.5	1177.0	1217.4	811.4	324.5	159.7
87.5°	50.2	53.4	58.6	73.0	47.6	37.8	194.2	243.7	151.8	95.1	49.5
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: P963660

CATALOG NUMBER: NAV-SB3A-830-U-SL3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2223.6	2223.6	2223.6	2223.6	2223.6	2223.6	2223.6	2223.6	2223.6	2223.6	2223.6
2.5°	2226.8	2222.3	2209.9	2193.0	2177.3	2157.7	2149.3	2142.1	2135.6	2123.2	2117.3
5°	2240.5	2228.1	2194.9	2151.9	2103.0	2049.6	1997.4	1961.6	1931.0	1908.1	1889.3
7.5°	2261.4	2237.9	2177.3	2089.4	1977.2	1862.5	1758.9	1685.3	1629.9	1609.7	1574.5
10°	2282.9	2254.9	2149.3	1994.1	1800.6	1624.0	1486.6	1410.9	1366.6	1352.3	1330.1
12.5°	2308.3	2267.2	2105.7	1861.9	1603.2	1409.6	1289.7	1245.4	1222.6	1214.7	1216.7
15°	2345.4	2277.7	2039.9	1696.4	1414.8	1253.2	1175.7	1145.0	1133.3	1132.6	1135.3
17.5°	2373.5	2279.6	1937.5	1519.2	1270.2	1158.8	1094.8	1083.1	1090.9	1102.7	1107.2
20°	2404.8	2262.1	1803.3	1357.5	1168.5	1075.9	1049.2	1057.1	1075.9	1092.9	1098.8
22.5°	2426.9	2230.1	1640.9	1231.7	1080.6	1028.4	1027.0	1043.3	1053.8	1062.3	1066.8
25°	2446.5	2176.0	1468.9	1126.2	1008.2	999.7	1014.0	1008.8	1001.6	1008.8	1013.4
27.5°	2460.8	2090.6	1315.1	1033.6	957.4	980.1	971.7	959.9	959.3	963.2	969.8
30°	2456.2	1976.6	1188.7	945.6	921.5	943.6	923.4	921.5	919.5	921.5	928.6
32.5°	2456.2	1846.9	1091.6	885.0	898.7	890.2	888.3	883.7	875.9	875.2	883.7
35°	2469.9	1717.2	1008.2	852.4	879.8	859.6	860.9	849.8	833.5	825.7	833.5
37.5°	2497.9	1612.9	925.4	836.8	846.5	845.9	840.7	821.7	793.1	768.3	776.8
40°	2565.7	1582.3	868.7	829.6	830.9	838.8	825.0	788.5	723.3	683.0	688.2
42.5°	2672.0	1633.8	856.3	812.0	820.5	828.3	801.6	716.9	670.6	646.5	646.5
45°	2806.9	1723.7	883.0	786.6	795.7	809.4	729.9	689.5	668.6	669.3	672.5
47.5°	2977.6	1818.2	932.5	764.4	759.8	767.7	682.3	657.5	628.8	636.0	654.3
50°	3175.0	1914.0	979.5	734.4	720.2	694.7	651.7	628.2	591.7	574.8	579.3
52.5°	3388.9	2006.5	998.4	697.9	677.1	647.8	630.9	602.2	557.8	529.8	529.2
55°	3591.5	2090.6	977.5	654.3	634.1	611.3	608.6	591.1	543.6	504.4	504.4
57.5°	3783.1	2161.0	925.4	610.0	590.4	576.8	594.4	585.9	525.9	475.7	473.1
60°	3945.3	2209.3	849.8	565.0	551.3	544.2	570.9	568.3	501.1	445.2	443.1
62.5°	4074.4	2228.1	766.4	522.0	518.8	505.7	538.3	538.3	469.9	415.1	413.2
65°	4175.4	2209.9	681.6	479.6	486.2	466.6	498.6	494.7	436.6	388.4	385.8
67.5°	4264.7	2149.9	587.8	438.0	452.9	428.1	456.8	447.7	400.2	361.7	359.1
70°	4304.5	2010.4	480.9	396.3	414.5	390.3	415.1	398.2	359.1	333.0	327.8
72.5°	3985.1	1671.0	378.6	352.6	368.2	348.7	370.1	350.7	314.8	303.0	293.3
75°	3296.9	1253.9	291.3	305.0	316.7	301.8	316.1	301.8	269.2	277.7	253.5
77.5°	2394.3	846.5	222.8	254.8	260.0	252.3	264.6	248.3	218.9	217.0	207.3
80°	1190.6	495.9	174.7	201.4	199.5	194.2	208.6	200.7	176.0	186.3	184.4
82.5°	344.7	212.5	127.1	141.4	137.6	138.8	149.2	153.1	229.4	227.4	232.7
85°	108.1	83.4	76.3	78.8	74.9	76.9	87.9	174.7	161.6	94.5	102.3
87.5°	28.0	28.7	18.9	20.2	20.8	24.8	28.0	106.2	50.8	33.2	35.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)