

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: P962487

Luminaire Tested: **NAV-SB2C-740-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962487
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2C-740-U-SLR-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12395.3 lumens
Efficiency: N/A
Efficacy: 122.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 100.9
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

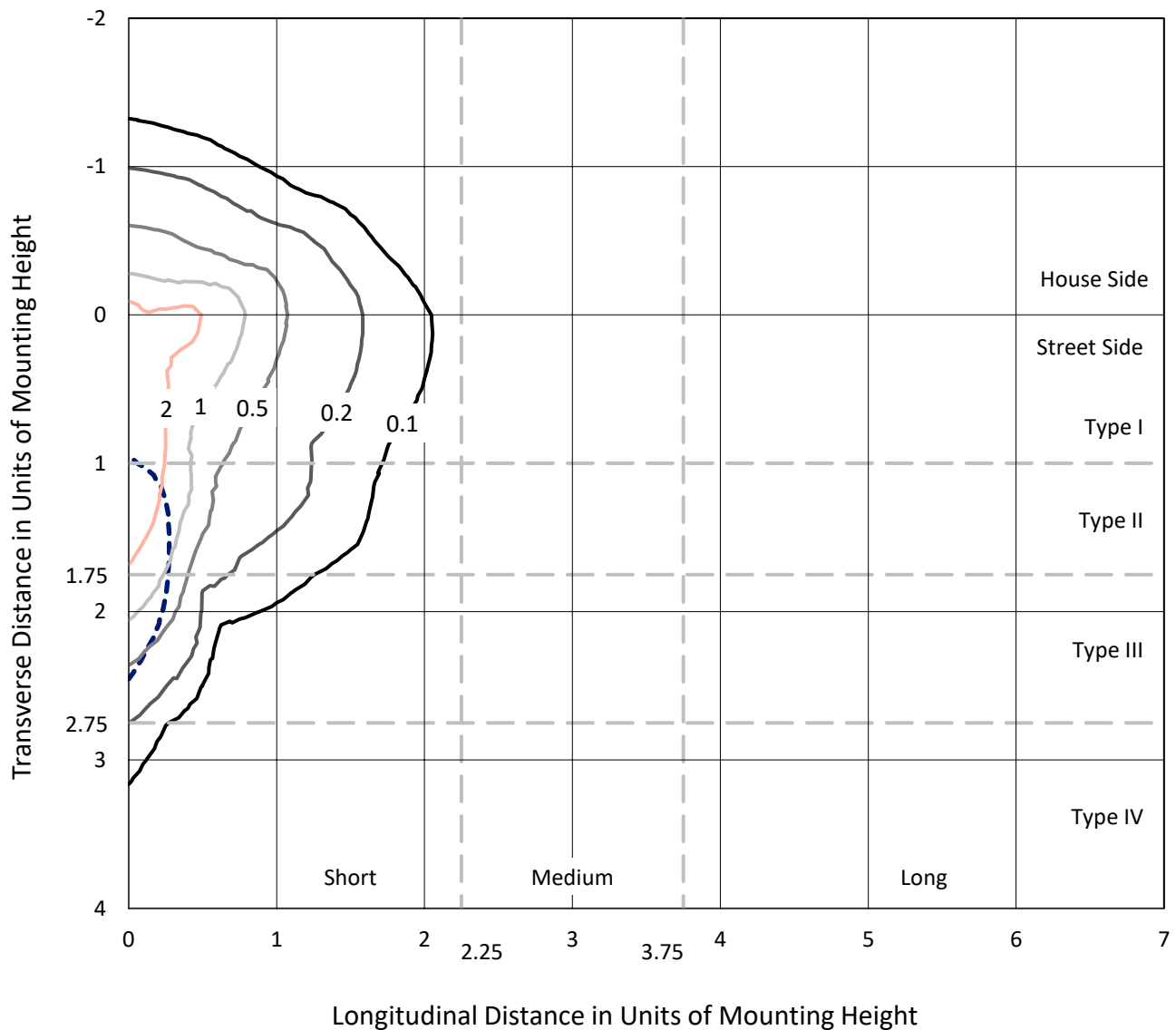


REPORT NUMBER: P962487

CATALOG NUMBER: NAV-SB2C-740-U-SLR-HSS

Iso-Footcandle Lines of Horizontal Illumination

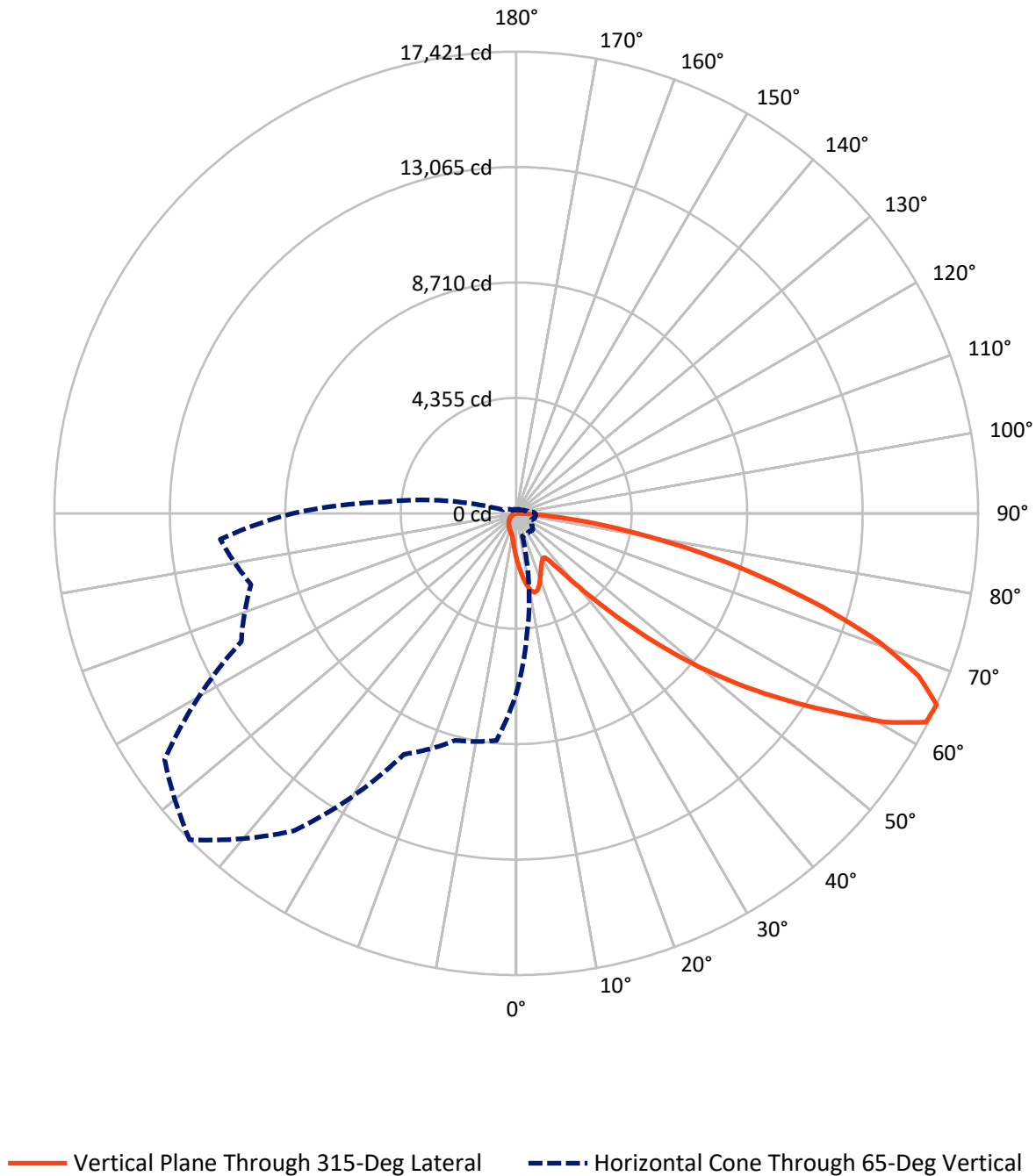
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
Type IV - Short - N/A

REPORT NUMBER: P962487
CATALOG NUMBER: NAV-SB2C-740-U-SLR-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P962487

CATALOG NUMBER: NAV-SB2C-740-U-SLR-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1735.9	0.0	1735.9
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	10659.4	0.0	10659.4
	% Fixture	86.0	0.0	86.0
Total	Lumens	12395.3	0.0	12395.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.0	1.4
10°-20°	506.6	4.1
20°-30°	746.3	6.0
30°-40°	958.7	7.7
40°-50°	1550.6	12.5
50°-60°	2719.1	21.9
60°-70°	3402.3	27.4
70°-80°	1988.1	16.0
80°-90°	354.7	2.9
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°	12395.3	100.0
0°-180°	12395.3	100.0

Coefficient of Utilization



REPORT NUMBER: P962487

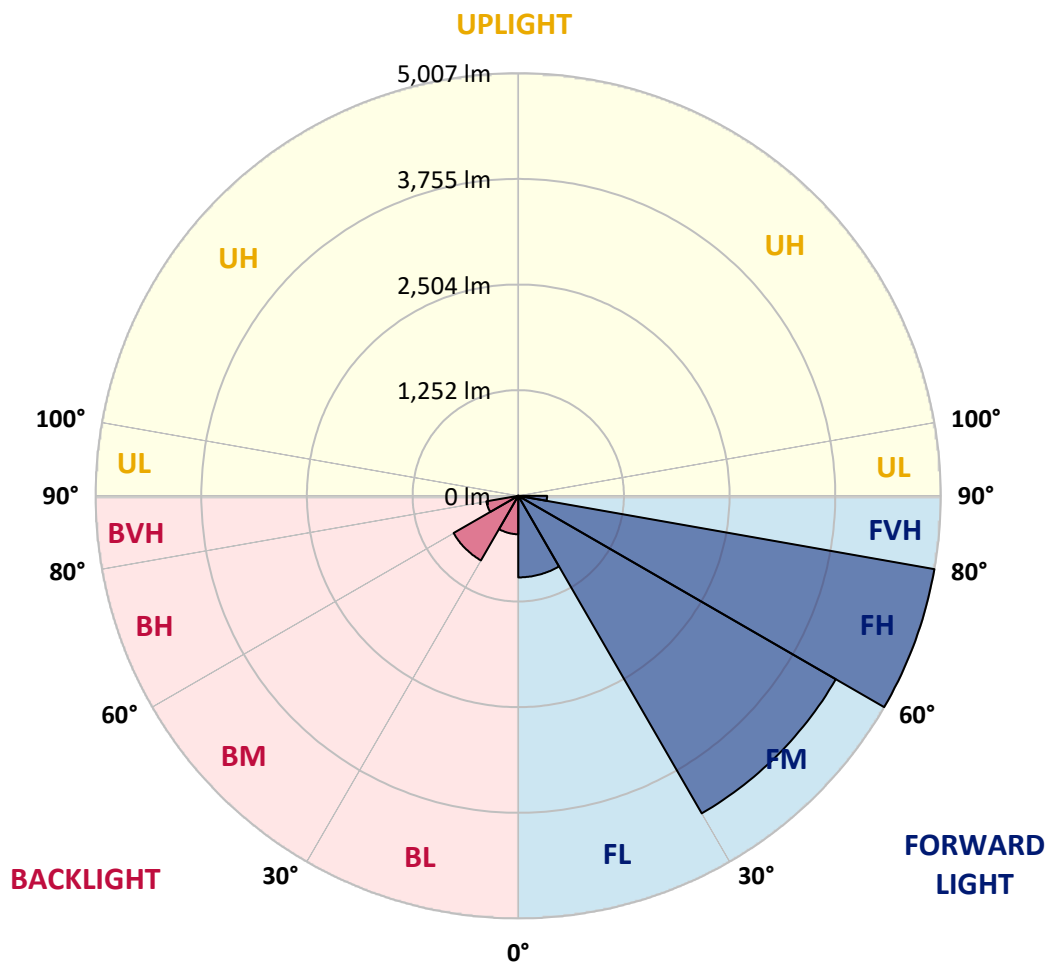
CATALOG NUMBER: NAV-SB2C-740-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	966.8	7.8			
FM	(30°-60°)	4344.4	35.0			
FH	(60°-80°)	5007.1	40.4			G3/7500
FVH	(80°-90°)	341.1	2.8			G3/500
BL	(0°-30°)	455.0	3.7	B1/500		
BM	(30°-60°)	884.0	7.1	B1/1000		
BH	(60°-80°)	383.3	3.1	B1/500		G1/500
BVH	(80°-90°)	13.6	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short



REPORT NUMBER: P962487

CATALOG NUMBER: NAV-SB2C-740-U-SLR-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1716.4	1716.4	1716.4	1716.4	1716.4	1716.4	1716.4	1716.4	1716.4	1716.4	1716.4
2.5°	1939.2	1905.9	1886.3	1837.6	1788.9	1749.7	1696.7	1661.7	1619.9	1579.7	1543.9
5°	2161.2	2107.4	2042.5	1953.8	1872.6	1789.8	1709.5	1630.2	1546.4	1469.5	1422.6
7.5°	2349.1	2271.4	2157.0	2039.1	1935.8	1835.9	1742.0	1636.9	1535.3	1414.9	1350.8
10°	2492.6	2393.5	2243.2	2088.6	1969.9	1869.2	1777.9	1689.0	1586.6	1441.4	1361.1
12.5°	2579.6	2473.7	2295.3	2114.3	1978.5	1865.8	1794.9	1755.6	1715.5	1571.2	1477.2
15°	2643.7	2529.3	2332.0	2132.2	1958.9	1820.5	1768.4	1807.7	1853.8	1761.6	1653.1
17.5°	2710.3	2589.9	2379.8	2139.9	1905.9	1732.6	1710.4	1812.0	1918.7	1914.5	1806.9
20°	2773.4	2653.9	2421.7	2134.8	1820.5	1625.9	1645.4	1775.3	1899.1	1951.2	1893.1
22.5°	2846.1	2719.7	2461.8	2115.1	1709.5	1525.9	1587.4	1717.2	1825.6	1887.1	1869.2
25°	2934.9	2802.6	2518.2	2086.1	1590.0	1443.1	1528.5	1649.7	1737.7	1780.4	1779.5
27.5°	3030.5	2901.6	2593.4	2070.7	1493.5	1384.2	1461.9	1569.5	1648.0	1677.9	1677.9
30°	3149.2	3016.9	2682.1	2053.7	1430.3	1350.0	1392.8	1476.4	1553.3	1583.1	1583.1
32.5°	3279.0	3144.9	2767.5	2012.7	1391.8	1324.4	1325.2	1378.2	1448.2	1484.1	1489.2
35°	3441.2	3298.7	2858.9	1923.0	1361.1	1294.6	1259.5	1285.1	1343.2	1385.9	1397.0
37.5°	3672.7	3500.2	2970.8	1794.9	1315.9	1248.4	1190.3	1196.3	1240.8	1287.7	1304.7
40°	3992.1	3770.9	3102.3	1661.7	1251.0	1183.6	1114.4	1111.8	1144.2	1190.3	1209.1
42.5°	4424.1	4128.6	3260.2	1534.4	1188.6	1104.9	1034.1	1029.8	1055.4	1095.5	1115.2
45°	4994.5	4586.4	3454.0	1425.2	1140.0	1028.1	958.1	956.4	977.7	1012.7	1033.2
47.5°	5724.6	5222.5	3647.9	1350.8	1114.4	967.5	895.7	899.1	918.0	949.6	964.0
50°	6669.9	6051.6	3706.8	1313.3	1114.4	935.0	840.3	857.3	872.7	896.6	905.2
52.5°	7803.0	6847.5	3512.2	1279.2	1121.1	939.3	793.2	830.0	841.1	861.6	865.0
55°	8853.3	7237.7	3019.4	1232.2	1122.9	965.8	753.2	807.8	828.3	836.0	835.2
57.5°	9463.0	7103.7	2441.3	1152.8	1116.0	983.7	727.5	780.4	819.8	824.9	817.2
60°	9346.9	6633.2	1797.4	1092.1	1065.7	976.8	719.9	738.6	800.9	808.6	798.4
62.5°	8451.9	5844.1	1247.5	1045.2	954.7	947.0	717.3	672.9	759.9	778.8	764.2
65°	6793.7	4600.8	881.2	900.1	836.8	882.1	703.7	604.5	710.4	736.1	713.9
67.5°	4928.7	3113.3	636.1	729.3	758.3	777.1	672.9	555.0	654.1	688.3	659.2
70°	3162.8	1681.3	446.6	481.6	638.7	660.1	619.9	510.7	596.9	636.1	604.5
72.5°	2248.3	993.1	321.0	337.3	513.2	549.9	545.6	461.1	530.2	578.1	540.5
75°	1551.5	547.3	216.9	240.8	372.3	446.6	421.0	396.2	449.2	497.8	461.1
77.5°	972.6	245.1	129.8	167.4	244.3	351.0	288.6	306.6	350.1	395.3	356.9
80°	541.4	94.8	72.6	111.0	133.2	255.3	159.7	197.2	257.9	290.3	259.6
82.5°	117.9	12.0	32.5	47.9	52.1	148.6	84.6	114.4	162.3	159.7	138.4
85°	0.0	0.0	5.9	6.9	3.4	64.1	30.7	37.6	53.0	49.5	37.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0
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: P962487

CATALOG NUMBER: NAV-SB2C-740-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	1716.4	1716.4	1716.4	1716.4	1716.4	1716.4	1716.4	1716.4	1716.4	1716.4	1716.4
2.5°	1537.0	1495.2	1464.4	1449.0	1436.2	1448.2	1455.1	1455.1	1484.1	1501.2	1508.0
5°	1392.8	1317.5	1260.3	1221.9	1198.8	1206.5	1215.1	1224.5	1261.3	1286.0	1302.2
7.5°	1292.8	1177.5	1090.4	1036.7	1008.5	1012.7	1018.7	1026.4	1062.3	1087.0	1108.3
10°	1274.1	1108.3	985.4	914.5	880.4	874.4	870.9	868.4	889.8	908.6	925.7
12.5°	1350.8	1111.8	940.1	853.9	812.1	794.2	773.7	757.4	760.9	772.7	794.2
15°	1488.4	1155.4	925.7	822.4	770.2	740.4	716.5	696.8	692.5	696.8	700.2
17.5°	1645.4	1214.2	923.9	795.0	730.1	699.4	679.7	661.7	655.8	656.6	660.9
20°	1749.7	1261.3	918.8	764.2	691.7	664.3	647.3	629.3	623.3	625.0	625.9
22.5°	1759.9	1286.0	911.1	730.1	653.2	630.2	613.2	596.9	596.0	596.0	601.2
25°	1704.4	1286.0	894.9	699.4	616.5	596.0	580.7	561.0	564.5	566.1	573.0
27.5°	1618.2	1255.2	864.2	674.6	585.0	563.5	548.2	530.2	534.5	537.1	544.8
30°	1532.8	1216.0	827.5	646.4	555.0	530.2	519.2	503.8	505.5	508.9	517.4
32.5°	1453.3	1174.1	783.9	623.3	525.1	500.4	491.9	474.8	477.3	480.7	490.2
35°	1374.8	1128.0	732.7	596.0	497.8	473.0	466.3	446.6	448.3	453.5	463.7
37.5°	1290.3	1079.3	690.8	568.7	471.4	445.8	438.9	418.4	420.1	426.1	438.1
40°	1201.4	1031.6	649.8	539.7	443.2	417.6	411.5	389.4	391.1	397.9	410.7
42.5°	1111.8	979.4	618.3	502.1	414.1	386.8	380.9	360.4	363.0	370.6	383.5
45°	1029.0	917.1	597.8	460.2	386.8	356.1	350.1	331.3	336.4	345.0	357.8
47.5°	958.1	853.0	589.2	425.3	357.8	324.5	319.4	304.0	312.5	322.0	332.2
50°	897.5	791.6	578.1	389.4	330.5	297.1	292.0	281.8	292.8	302.3	311.7
52.5°	853.9	721.6	554.2	356.9	306.6	274.1	272.4	267.3	277.6	286.1	294.6
55°	816.3	648.9	515.8	328.7	285.2	254.5	256.1	253.6	262.2	269.0	276.6
57.5°	782.2	585.8	467.1	306.6	262.2	237.4	242.5	239.1	243.3	247.6	257.1
60°	741.2	521.7	409.0	281.8	234.8	220.3	226.3	216.9	216.1	217.7	220.3
62.5°	680.6	435.5	348.4	251.0	210.9	201.5	204.1	186.1	172.5	172.5	175.1
65°	596.0	350.1	292.0	216.9	183.6	175.9	174.1	148.6	129.8	128.1	135.8
67.5°	497.8	287.7	242.5	182.8	152.8	147.7	149.4	130.7	111.8	110.2	118.7
70°	405.6	238.2	195.6	146.1	117.9	123.0	130.7	111.8	93.9	91.3	99.0
72.5°	329.6	189.5	152.8	111.8	87.1	101.6	111.0	91.3	74.3	72.6	79.4
75°	254.5	139.2	109.3	76.0	63.1	78.5	87.1	66.6	53.0	50.4	56.4
77.5°	169.9	86.2	61.5	47.9	37.6	53.8	58.0	35.1	30.7	29.9	34.1
80°	103.3	40.2	26.4	23.1	12.8	19.7	23.1	14.6	16.2	17.1	20.5
82.5°	52.1	11.1	4.3	0.8	0.0	0.0	6.9	3.4	6.9	8.5	12.8
85°	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	4.3	7.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4
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: P962487

CATALOG NUMBER: NAV-SB2C-740-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	1716.4	1716.4	1716.4	1716.4	1716.4	1716.4	1716.4	1716.4	1716.4	1716.4	1716.4
2.5°	1555.8	1591.7	1625.9	1680.5	1736.9	1792.3	1848.7	1903.3	1923.0	1937.6	1969.9
5°	1376.5	1443.9	1522.5	1631.0	1747.1	1866.6	1987.9	2098.9	2149.3	2183.5	2260.3
7.5°	1191.2	1279.2	1391.8	1554.9	1736.9	1927.3	2117.6	2292.7	2373.9	2439.6	2556.6
10°	1007.6	1103.2	1245.9	1432.0	1677.9	1951.2	2214.2	2455.0	2560.0	2642.9	2801.6
12.5°	846.2	935.9	1085.3	1291.1	1585.7	1932.4	2269.7	2559.1	2682.9	2776.0	2950.3
15°	732.7	795.8	928.2	1150.3	1476.4	1871.8	2273.1	2608.7	2744.4	2841.8	2993.0
17.5°	669.4	690.8	777.1	1006.8	1355.2	1792.3	2241.5	2625.7	2770.9	2861.5	2966.5
20°	635.3	638.7	662.7	820.6	1199.8	1718.1	2211.6	2642.9	2795.7	2871.7	2903.3
22.5°	608.0	608.0	614.0	671.2	999.1	1629.2	2202.2	2672.7	2829.8	2876.9	2811.9
25°	583.2	583.2	585.0	600.3	791.6	1493.5	2196.3	2718.8	2876.9	2889.6	2711.1
27.5°	557.6	558.4	558.4	567.0	637.9	1309.0	2170.6	2778.6	2933.1	2906.7	2614.7
30°	532.0	533.7	533.7	539.7	564.5	1093.0	2120.2	2850.3	3006.6	2928.9	2519.0
32.5°	506.4	508.1	508.1	513.2	531.2	872.7	2057.1	2916.1	3080.9	2938.3	2430.2
35°	479.9	482.5	480.7	487.6	506.4	694.2	1976.8	2981.8	3161.2	2968.2	2386.7
37.5°	453.5	455.1	454.3	461.1	482.5	599.4	1883.7	3031.3	3270.5	3034.8	2438.8
40°	426.9	426.1	426.1	433.8	456.8	572.2	1766.7	3110.0	3427.6	3151.8	2665.9
42.5°	399.6	399.6	397.9	406.4	434.6	551.7	1654.9	3250.8	3656.5	3337.9	3069.0
45°	374.8	374.0	370.6	378.3	413.3	515.8	1615.6	3513.8	3994.6	3639.4	3556.5
47.5°	351.0	350.1	341.5	348.4	387.7	483.3	1762.5	3944.2	4463.4	4082.6	4013.4
50°	329.6	330.5	314.3	320.2	362.0	458.6	2081.0	4502.6	5085.8	4679.4	4446.3
52.5°	310.0	310.0	288.6	292.0	330.5	436.3	2384.1	5108.1	5907.4	5511.9	4951.0
55°	290.3	288.6	264.8	266.4	298.9	404.8	2429.4	5699.0	7027.7	6764.7	5640.9
57.5°	268.1	264.8	242.5	242.5	269.9	381.7	2105.8	6153.3	8417.8	8605.7	6635.7
60°	240.8	238.2	223.8	219.5	246.8	402.2	1485.8	6206.2	9314.5	11053.8	8540.8
62.5°	205.8	209.2	201.5	195.6	224.6	417.6	880.4	5780.1	9097.5	11832.6	10822.5
65°	162.3	175.9	174.1	169.9	246.8	351.8	520.0	4962.0	8432.4	11204.2	10357.0
67.5°	138.4	147.7	145.1	145.1	258.7	267.3	327.1	3876.8	7516.9	10458.7	9251.2
70°	117.9	127.2	117.9	117.9	195.6	162.3	226.3	2706.9	6528.9	9633.8	8525.4
72.5°	97.4	106.7	96.5	89.7	156.3	121.3	165.6	1691.6	5591.4	8774.7	8028.4
75°	74.3	85.4	77.7	69.2	103.3	90.5	125.6	982.9	4632.5	7507.6	7320.6
77.5°	46.9	61.5	58.0	48.7	76.0	65.7	90.5	585.0	3574.5	5866.4	6296.7
80°	29.0	31.6	32.5	30.7	43.6	44.4	61.5	333.0	2446.5	4088.5	4919.4
82.5°	18.8	18.8	14.6	16.2	21.3	25.6	35.1	125.6	1438.0	2489.1	3424.2
85°	13.6	12.0	7.7	7.7	10.2	12.8	13.6	38.4	583.2	982.9	1339.0
87.5°	6.9	5.9	2.6	3.4	5.1	4.3	3.4	1.7	146.9	314.3	220.3
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: P962487

CATALOG NUMBER: NAV-SB2C-740-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1716.4	1716.4	1716.4	1716.4	1716.4	1716.4	1716.4	1716.4
2.5°	1987.1	2013.5	2015.3	2015.3	1992.2	1991.3	1944.3	1939.2
5°	2339.7	2356.8	2361.1	2352.5	2306.5	2272.2	2180.9	2161.2
7.5°	2662.4	2696.7	2696.7	2676.2	2601.0	2531.0	2398.6	2349.1
10°	2920.3	2959.7	2951.1	2909.3	2814.4	2718.0	2557.5	2492.6
12.5°	3045.9	3086.1	3063.8	3016.0	2923.8	2822.1	2653.1	2579.6
15°	3043.3	3032.3	3009.2	3003.1	2958.8	2881.9	2723.9	2643.7
17.5°	2934.9	2841.0	2823.1	2882.8	2939.2	2920.3	2785.4	2710.3
20°	2763.3	2599.3	2583.1	2697.5	2858.0	2940.0	2842.6	2773.4
22.5°	2582.2	2405.5	2367.9	2494.2	2735.9	2946.0	2915.2	2846.1
25°	2410.6	2233.0	2195.4	2313.2	2600.1	2935.7	2993.8	2934.9
27.5°	2267.1	2095.5	2060.5	2178.3	2469.5	2906.7	3072.3	3030.5
30°	2156.1	1997.3	1971.7	2085.3	2356.8	2870.8	3172.3	3149.2
32.5°	2091.2	1975.1	1984.5	2077.6	2296.2	2831.6	3267.9	3279.0
35°	2155.3	2160.4	2242.4	2280.8	2352.5	2825.6	3397.7	3441.2
37.5°	2473.7	2651.4	2821.3	2789.7	2628.3	2894.7	3591.5	3672.7
40°	3016.0	3380.7	3656.5	3536.0	3129.5	3106.6	3870.8	3992.1
42.5°	3678.6	4296.9	4751.2	4428.4	3776.0	3477.1	4269.5	4424.1
45°	4378.0	5426.6	6142.2	5471.0	4465.1	3996.3	4873.3	4994.5
47.5°	5115.0	6799.6	7725.3	6627.1	5103.8	4587.2	5696.4	5724.6
50°	5921.0	8305.1	9339.2	7782.5	5720.3	5264.3	6702.4	6669.9
52.5°	6688.6	9853.2	10918.9	8943.0	6261.7	6104.6	7869.6	7803.0
55°	7421.3	11400.6	12508.1	10058.2	6772.4	7214.7	9256.4	8853.3
57.5°	8270.9	12791.6	14145.8	11178.5	7486.2	8656.0	10807.1	9463.0
60°	9527.1	14372.1	15998.0	12713.8	8843.9	10170.9	11362.9	9346.9
62.5°	11130.7	15825.5	17344.5	14218.4	10207.7	10456.1	10544.1	8451.9
65°	11442.4	16193.6	17420.6	14620.6	10031.7	8869.5	8608.3	6793.7
67.5°	10615.8	15528.3	16358.3	13871.7	8873.8	6854.3	6459.9	4928.7
70°	9688.4	14260.3	14507.0	12598.6	7804.8	5041.5	4362.6	3162.8
72.5°	8738.0	12568.7	12058.0	10941.2	6859.4	3670.9	3146.6	2248.3
75°	7609.2	10344.2	9498.1	9090.7	5679.3	2881.1	2276.5	1551.5
77.5°	6093.5	7281.3	7055.0	7046.5	4267.8	2104.8	1519.2	972.6
80°	4298.5	4725.6	4610.2	5307.0	2863.1	1526.7	914.5	541.4
82.5°	2081.0	2612.9	2682.1	3160.3	1392.8	898.3	210.9	117.9
85°	814.7	1260.3	1063.1	1199.8	391.1	250.2	5.1	0.0
87.5°	91.3	146.1	134.1	105.9	47.9	10.2	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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