

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: P962471

Luminaire Tested: **NAV-SB2C-735-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962471
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2C-735-U-T4W-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11825.4 lumens
Efficiency: N/A
Efficacy: 117.2 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

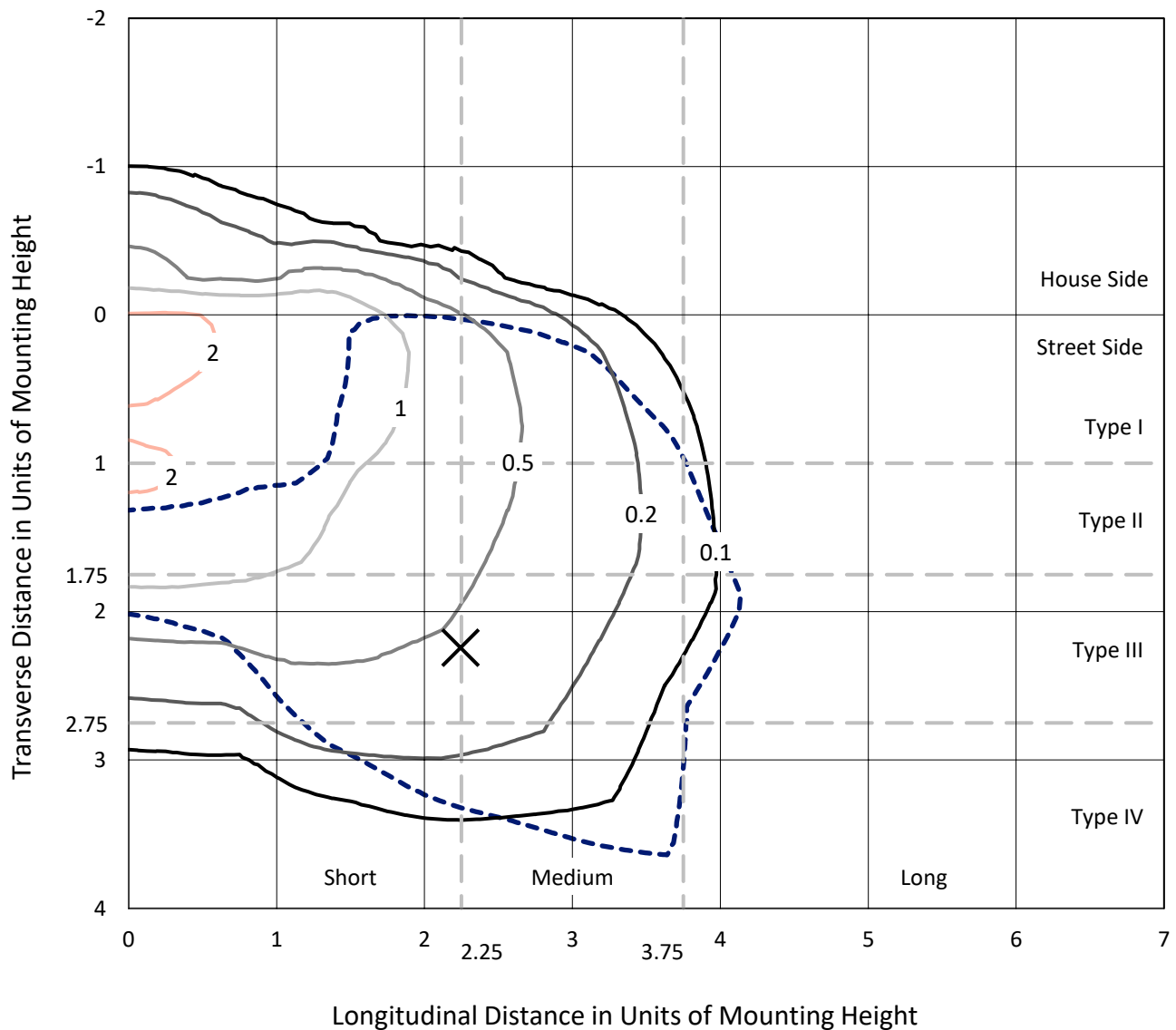


REPORT NUMBER: P962471

CATALOG NUMBER: NAV-SB2C-735-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

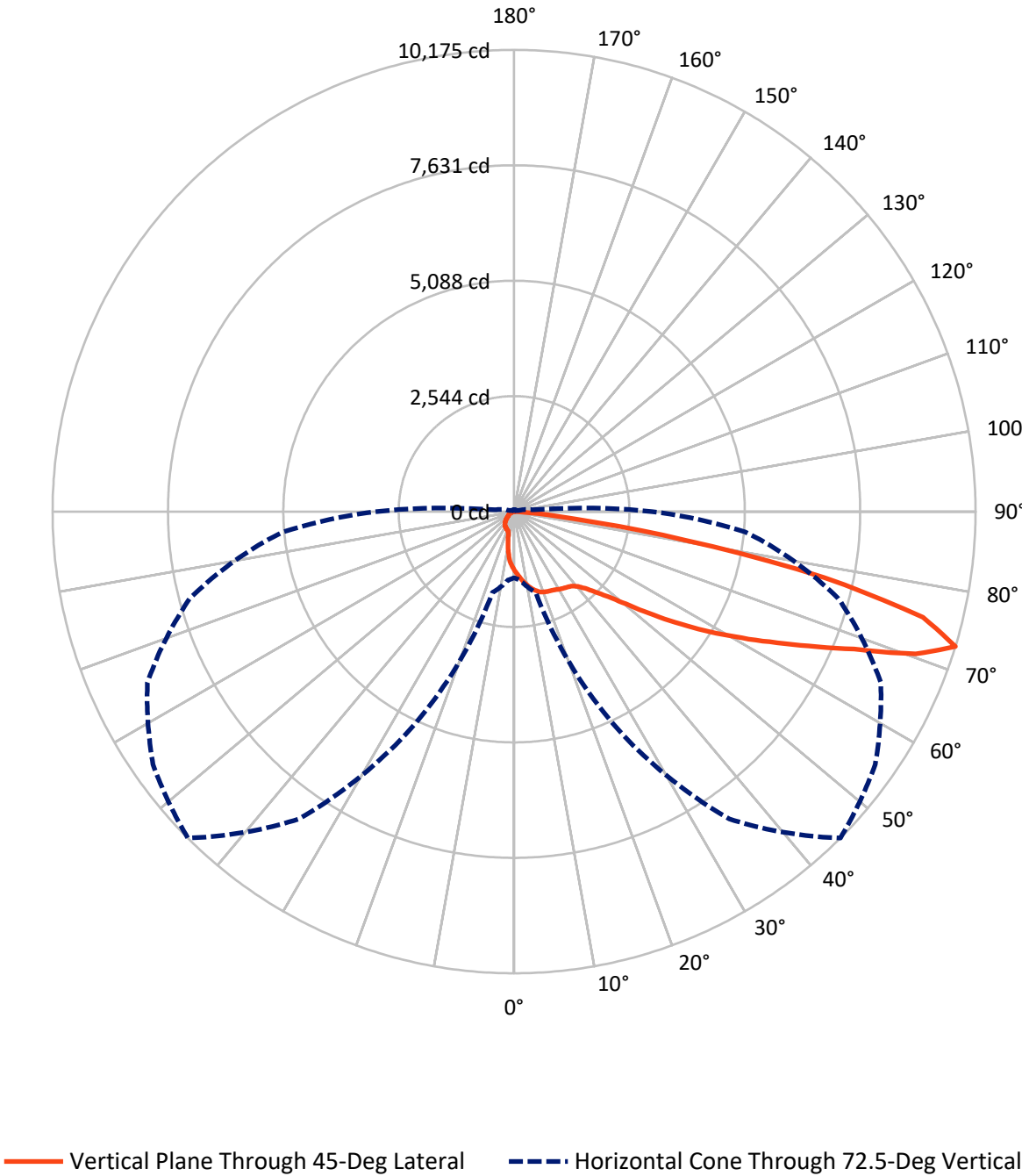


Based on 25 foot mounting height. Maximum calculated value = 2.8 fc

Type IV - Short - N/A

REPORT NUMBER: P962471
CATALOG NUMBER: NAV-SB2C-735-U-T4W-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P962471

CATALOG NUMBER: NAV-SB2C-735-U-T4W-HSS

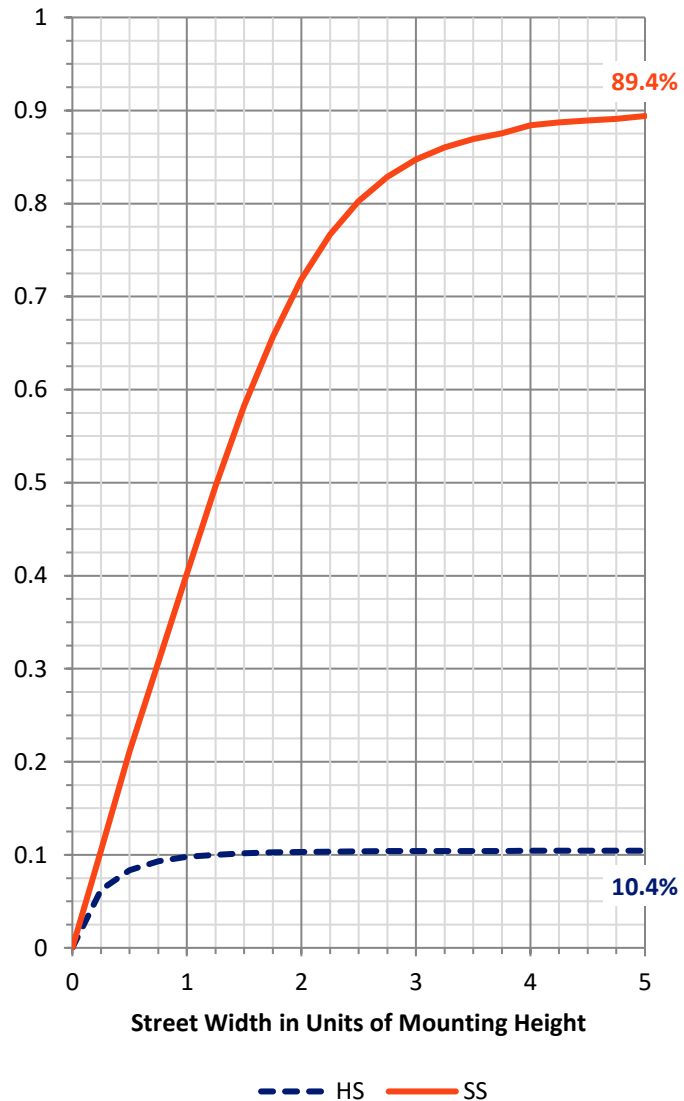
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1242.5	0.0	1242.5
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	10582.9	0.0	10582.9
	% Fixture	89.5	0.0	89.5
Total	Lumens	11825.4	0.0	11825.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.1	1.0
10°-20°	356.7	3.0
20°-30°	585.8	5.0
30°-40°	830.8	7.0
40°-50°	1373.3	11.6
50°-60°	2466.9	20.9
60°-70°	3425.4	29.0
70°-80°	2484.7	21.0
80°-90°	179.6	1.5
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°	11825.4	100.0
0°-180°	11825.4	100.0

Coefficient of Utilization



REPORT NUMBER: P962471

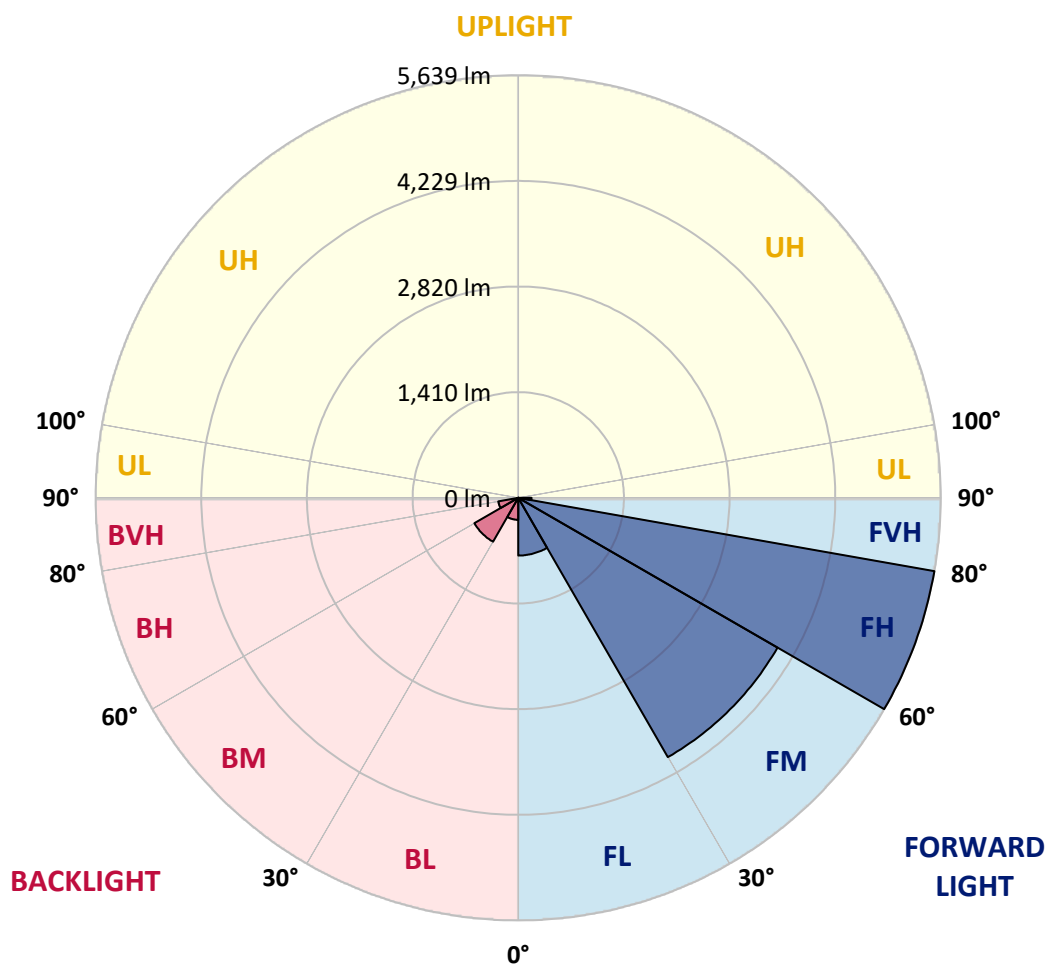
CATALOG NUMBER: NAV-SB2C-735-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	770.3	6.5			
FM	(30°-60°)	3995.3	33.8			
FH	(60°-80°)	5639.2	47.7			G3/7500
FVH	(80°-90°)	178.1	1.5			G2/225
BL	(0°-30°)	294.3	2.5	B1/500		
BM	(30°-60°)	675.8	5.7	B1/1000		
BH	(60°-80°)	271.0	2.3	B1/500		G1/500
BVH	(80°-90°)	1.5	0.0			G0/10
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: P962471

CATALOG NUMBER: NAV-SB2C-735-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1295.5	1295.5	1295.5	1295.5	1295.5	1295.5	1295.5	1295.5	1295.5	1295.5	1295.5
2.5°	1414.9	1417.4	1415.7	1406.1	1389.9	1381.1	1376.3	1360.1	1349.6	1331.1	1311.7
5°	1544.9	1554.6	1549.0	1529.6	1498.9	1477.1	1470.7	1437.6	1407.7	1373.0	1332.6
7.5°	1682.9	1687.8	1677.3	1652.3	1611.1	1574.0	1568.4	1522.3	1474.7	1421.4	1366.5
10°	1802.4	1808.1	1791.9	1755.6	1708.8	1662.8	1654.7	1603.8	1547.3	1481.9	1411.7
12.5°	1902.5	1908.1	1887.1	1843.6	1791.9	1744.2	1736.2	1682.9	1620.8	1548.2	1460.9
15°	1978.4	1988.8	1960.6	1913.8	1858.1	1810.5	1806.5	1754.0	1693.4	1612.7	1519.9
17.5°	2022.7	2033.3	2006.6	1950.1	1902.5	1862.1	1857.3	1813.7	1757.2	1679.7	1577.2
20°	2030.0	2039.7	2011.5	1962.3	1922.7	1890.4	1887.9	1856.5	1815.3	1741.1	1639.4
22.5°	2008.2	2020.4	1994.5	1955.0	1927.5	1910.6	1907.3	1889.6	1866.2	1803.2	1697.5
25°	1985.6	1995.3	1975.9	1941.2	1926.7	1925.1	1927.5	1924.2	1919.4	1866.2	1765.3
27.5°	1984.0	1994.5	1972.7	1939.6	1931.5	1948.5	1950.9	1966.3	1970.3	1923.5	1830.6
30°	1997.7	2005.0	1984.0	1949.3	1945.2	1984.0	1984.8	2012.3	2018.7	1971.9	1895.2
32.5°	2027.6	2035.6	2014.6	1963.8	1958.2	2012.3	2014.6	2051.0	2061.5	2023.6	1963.0
35°	2097.9	2107.5	2083.3	2004.2	1984.0	2038.9	2046.2	2089.0	2110.0	2078.5	2033.3
37.5°	2272.9	2244.8	2211.6	2085.7	2042.9	2080.9	2092.9	2143.1	2180.2	2143.8	2117.2
40°	2708.0	2619.3	2516.0	2224.6	2146.2	2170.4	2180.2	2230.2	2281.0	2245.6	2232.7
42.5°	3361.1	3256.1	3089.9	2544.2	2302.0	2314.1	2321.4	2365.0	2436.8	2408.5	2411.8
45°	3943.0	3905.0	3735.6	3089.9	2593.5	2533.7	2542.6	2565.2	2670.9	2660.4	2681.4
47.5°	4390.2	4368.3	4237.7	3716.2	3085.8	2802.5	2827.5	2838.0	2990.5	3027.6	3084.2
50°	4734.1	4726.0	4608.9	4273.1	3729.2	3198.8	3207.6	3185.1	3413.5	3505.5	3612.9
52.5°	5058.5	5085.9	4999.5	4790.5	4416.0	3717.8	3716.2	3609.6	3918.0	4056.8	4240.0
55°	5351.5	5361.2	5370.1	5318.4	5107.0	4308.7	4293.3	4119.0	4503.1	4646.8	4845.4
57.5°	5626.7	5630.7	5709.9	5815.6	5826.1	4943.1	4914.9	4705.8	5142.4	5244.9	5366.8
60°	5811.5	5830.2	5997.3	6291.0	6419.4	5597.7	5582.4	5369.3	5793.0	5840.7	5818.0
62.5°	5545.2	5658.2	6079.6	6662.3	6979.5	6323.3	6316.0	6115.9	6477.5	6438.7	6245.0
65°	4488.7	4679.9	5420.9	6913.4	7529.2	7133.7	7144.2	6931.2	7180.5	7054.7	6592.1
67.5°	3139.9	3341.7	4218.3	6933.5	8143.5	8085.4	8145.9	7811.7	7927.1	7644.7	6674.5
70°	2171.3	2275.4	2846.0	6499.3	8622.1	9396.2	9394.6	8893.3	8669.8	7913.4	6254.8
72.5°	1460.1	1514.2	1848.4	5156.2	8270.2	10175.2	10128.3	9719.9	8920.0	7400.9	5110.1
75°	615.8	655.4	855.6	2897.7	6542.9	9309.0	9182.4	8589.8	7925.6	5827.7	3188.3
77.5°	195.4	212.3	337.4	1037.2	3604.0	6997.4	6863.3	5364.4	5312.0	2923.5	1165.5
80°	92.9	108.1	189.7	416.5	1418.2	3805.8	3787.2	2433.6	2285.1	789.5	234.1
82.5°	40.4	47.7	105.0	222.7	634.5	1357.6	1385.1	828.2	685.3	299.5	71.9
85°	12.9	16.9	48.4	102.5	267.9	337.4	333.3	196.9	276.0	163.1	25.0
87.5°	0.0	0.0	16.1	23.4	27.5	19.4	21.8	16.9	76.7	45.2	8.9
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: P962471

CATALOG NUMBER: NAV-SB2C-735-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1295.5	1295.5	1295.5	1295.5	1295.5	1295.5	1295.5	1295.5	1295.5	1295.5	1295.5
2.5°	1302.0	1289.0	1266.5	1245.5	1226.9	1208.4	1197.0	1180.9	1179.3	1179.3	1183.3
5°	1310.9	1289.9	1249.5	1206.7	1157.4	1110.7	1063.8	1018.6	1004.1	993.6	998.5
7.5°	1336.7	1303.6	1239.8	1158.2	1064.7	962.2	890.3	812.8	783.0	766.8	769.3
10°	1373.8	1328.6	1231.7	1088.9	937.2	797.4	694.9	611.0	578.7	565.0	565.0
12.5°	1414.9	1359.3	1217.2	1002.4	797.4	630.4	530.3	491.6	486.7	486.7	486.7
15°	1464.2	1396.4	1192.2	900.8	651.4	498.9	463.3	464.9	469.8	473.0	473.0
17.5°	1515.1	1435.9	1152.6	787.0	522.2	448.7	449.6	452.0	456.0	459.3	459.3
20°	1569.9	1475.5	1100.1	665.9	448.0	434.3	436.6	439.1	442.3	443.9	444.7
22.5°	1628.8	1512.6	1038.0	547.2	422.9	422.2	422.9	425.4	429.4	429.4	431.0
25°	1691.9	1553.8	967.0	460.9	410.0	410.0	411.6	413.3	416.5	416.5	417.3
27.5°	1756.4	1591.7	892.0	415.7	398.7	397.9	397.9	400.4	402.0	402.8	403.5
30°	1827.5	1636.1	816.8	406.0	389.9	385.8	383.5	385.0	386.6	387.4	389.1
32.5°	1900.0	1679.0	749.9	410.0	381.0	373.7	365.6	364.1	364.1	367.3	369.7
35°	1980.8	1725.7	698.2	423.7	376.2	356.0	343.1	335.8	336.6	341.4	343.9
37.5°	2077.7	1782.3	660.3	435.8	372.9	335.8	314.8	306.0	300.2	306.0	304.3
40°	2204.4	1865.4	632.8	445.6	368.9	312.4	284.1	269.6	259.1	262.3	260.8
42.5°	2390.8	1996.1	622.3	446.4	360.0	285.0	252.7	233.3	217.9	218.7	215.6
45°	2652.4	2202.7	676.4	435.8	340.6	255.0	219.6	193.7	184.0	181.6	178.4
47.5°	3010.7	2503.9	801.6	414.1	312.4	226.0	187.3	165.4	158.2	154.2	151.7
50°	3490.9	2890.5	940.3	389.9	284.1	198.5	160.6	146.9	142.1	138.1	137.2
52.5°	4047.9	3282.8	1054.1	365.6	255.8	174.4	143.7	135.6	131.6	128.3	127.5
55°	4558.9	3553.2	1047.7	339.8	228.5	155.0	131.6	126.7	121.9	118.7	117.1
57.5°	4876.8	3591.1	863.7	311.6	196.9	139.6	120.2	117.1	111.4	107.3	106.5
60°	5023.0	3374.7	605.4	274.4	165.4	125.2	108.1	106.5	99.3	93.6	92.0
62.5°	5049.7	2972.8	403.5	228.5	138.1	111.4	96.0	93.6	83.9	74.2	69.4
65°	4941.4	2398.1	279.3	178.4	117.9	96.9	82.3	77.5	67.0	57.3	54.1
67.5°	4599.3	1683.8	194.5	128.3	100.0	76.7	65.4	63.8	55.7	47.7	45.2
70°	3972.1	959.7	130.0	96.0	79.1	52.5	51.7	53.3	45.2	38.7	35.5
72.5°	3045.5	439.1	80.7	70.2	54.1	35.5	41.2	41.9	34.7	29.0	25.8
75°	1792.7	188.1	50.8	45.2	27.5	23.4	29.8	30.6	23.4	18.6	16.1
77.5°	610.2	71.0	32.3	26.6	13.7	12.9	19.4	19.4	12.9	7.3	5.6
80°	138.8	26.6	16.1	10.5	6.5	5.6	6.5	5.6	3.2	0.8	0.0
82.5°	39.6	10.5	6.5	4.0	2.5	2.5	0.8	0.0	0.0	0.0	0.0
85°	11.3	4.8	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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

(END OF REPORT)