

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: P960480

Luminaire Tested: **NAV-SB1C-827-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960480
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1C-827-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

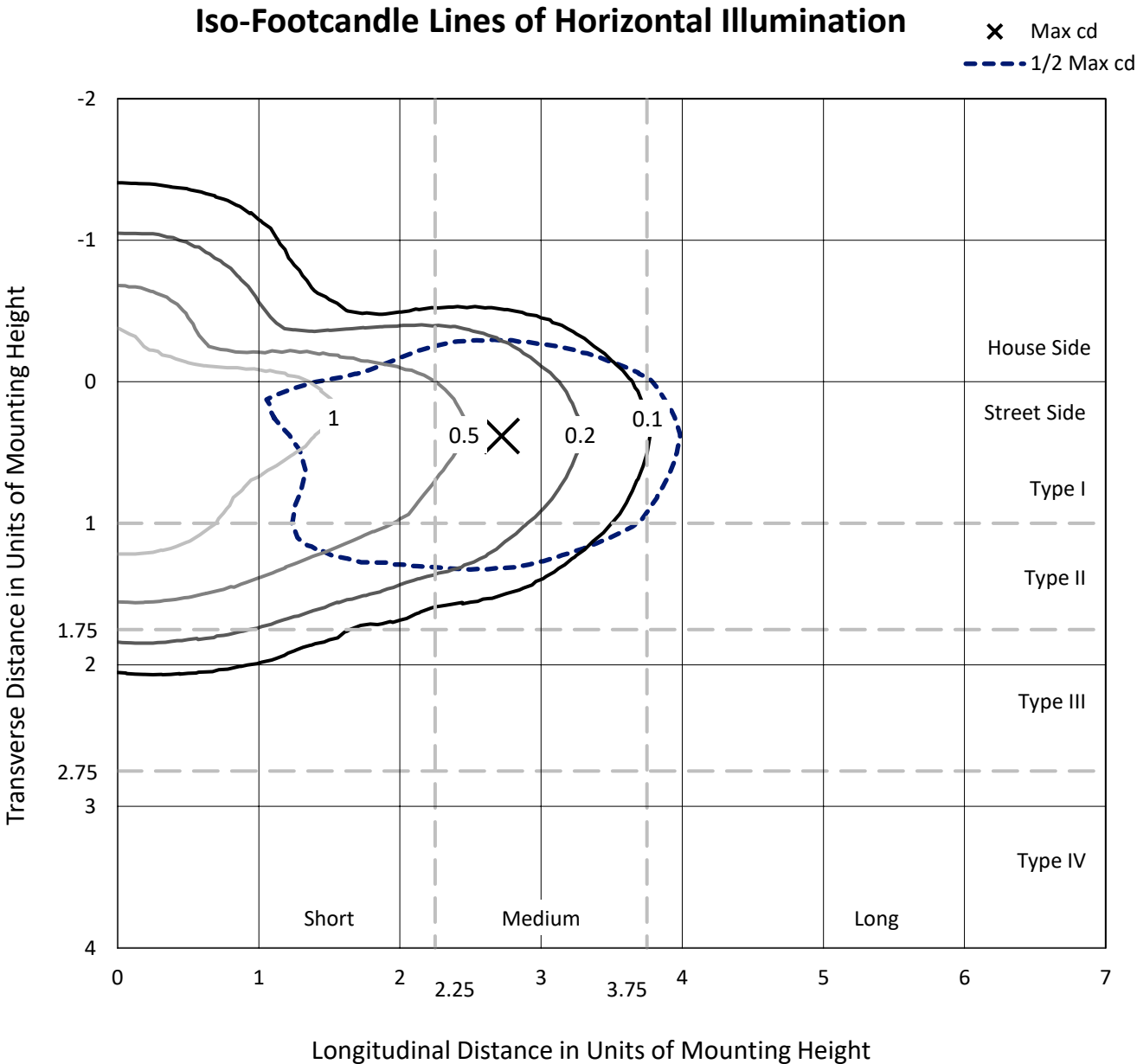
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6616.4 lumens
Efficiency: N/A
Efficacy: 121.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 54.4
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



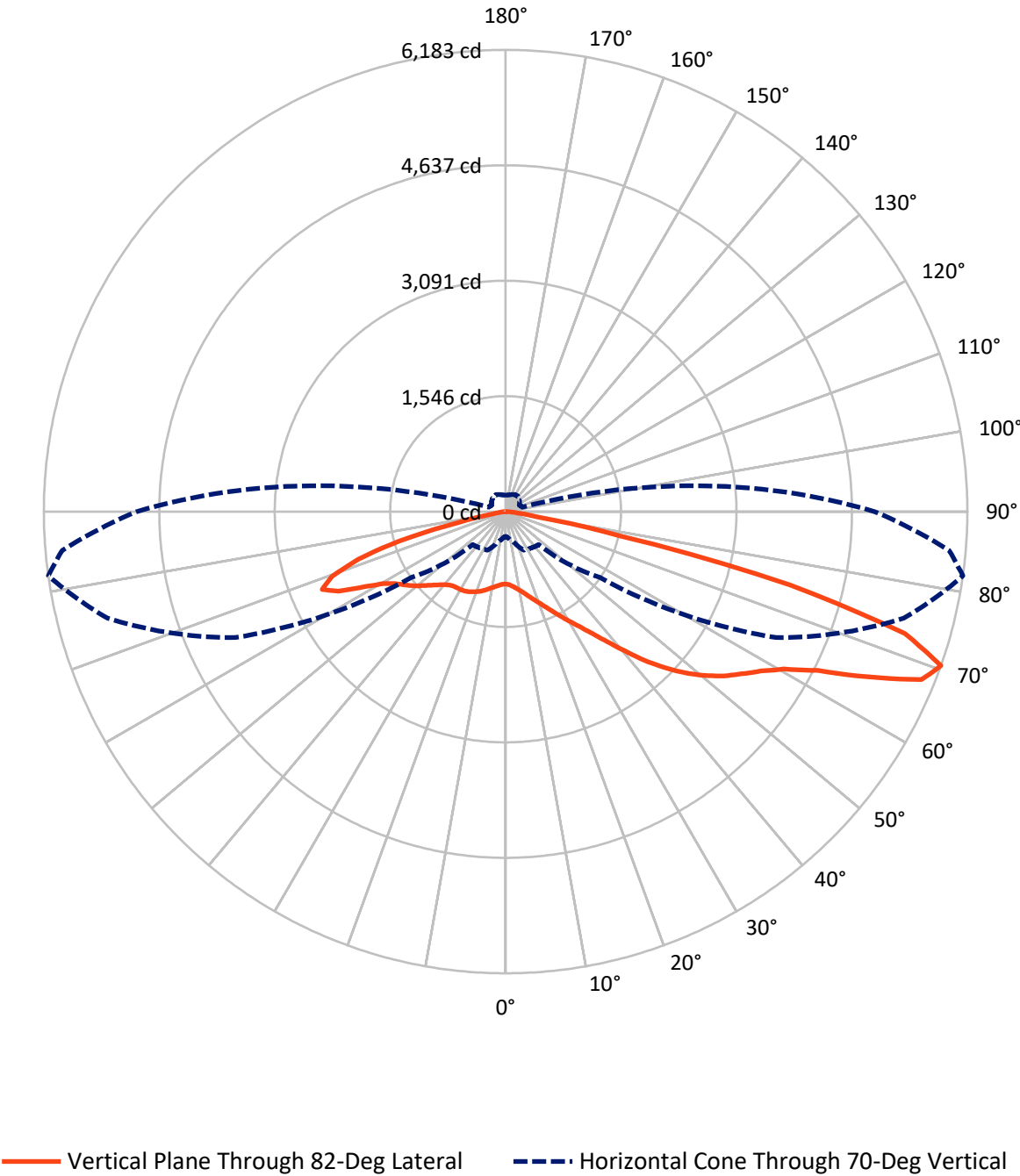
REPORT NUMBER: P960480
CATALOG NUMBER: NAV-SB1C-827-U-T2



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



REPORT NUMBER: P960480

CATALOG NUMBER: NAV-SB1C-827-U-T2

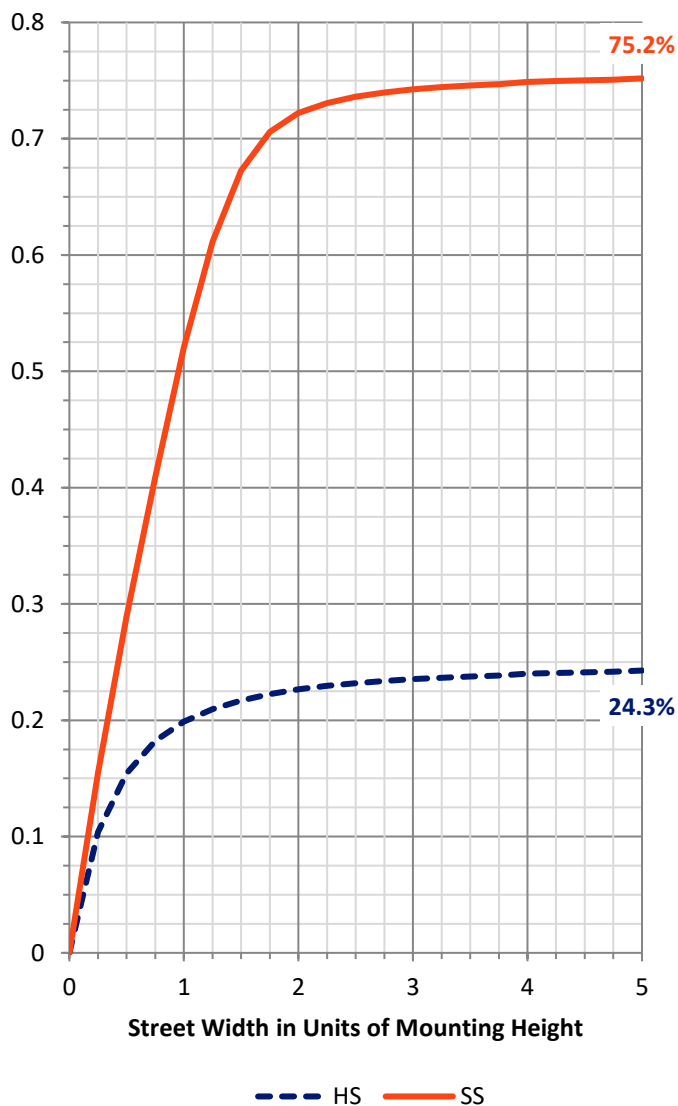
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1631.1	0.0	1631.1
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	4985.3	0.0	4985.3
	% Fixture	75.3	0.0	75.3
Total	Lumens	6616.4	0.0	6616.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.6	1.4
10°-20°	263.1	4.0
20°-30°	440.2	6.7
30°-40°	687.7	10.4
40°-50°	1095.3	16.6
50°-60°	1524.2	23.0
60°-70°	1594.4	24.1
70°-80°	833.3	12.6
80°-90°	86.5	1.3
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°	6616.4	100.0
0°-180°	6616.4	100.0

Coefficient of Utilization



REPORT NUMBER: P960480

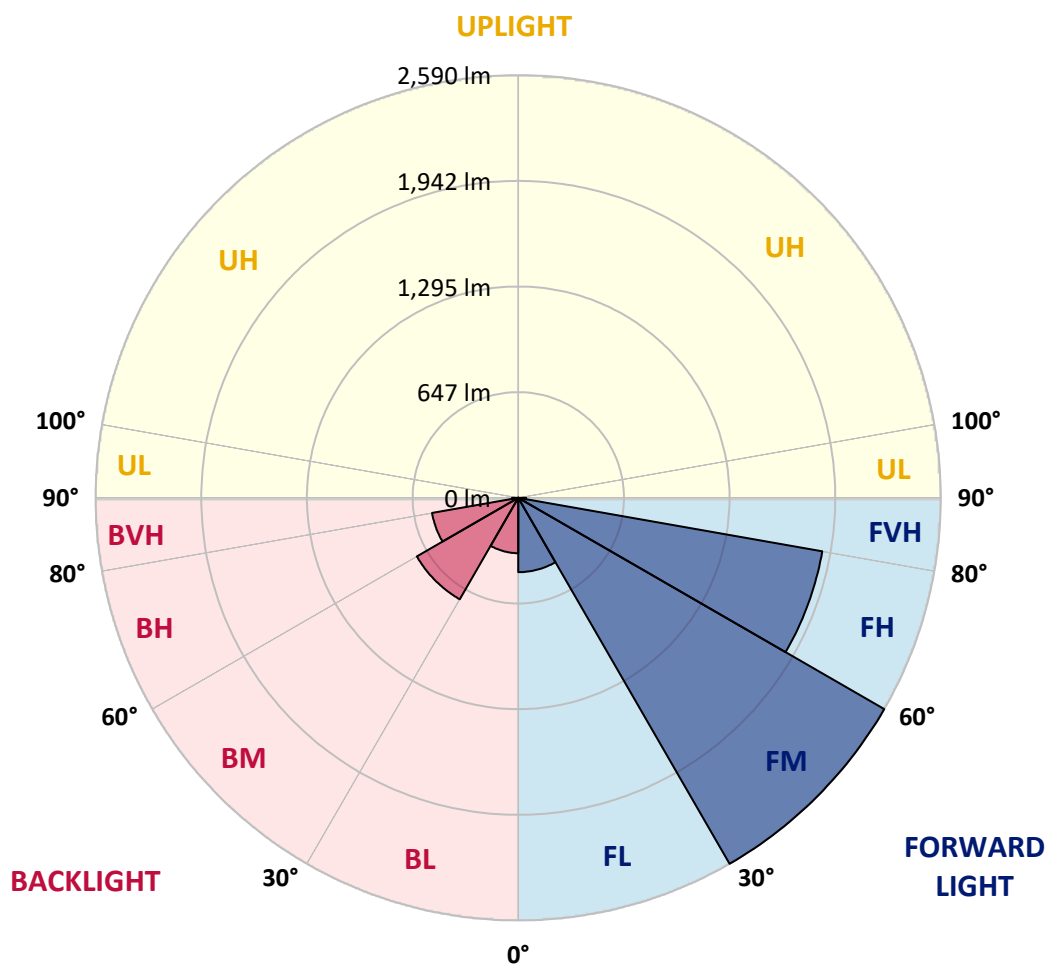
CATALOG NUMBER: NAV-SB1C-827-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	455.6	6.9			
FM	(30°-60°)	2589.6	39.1			
FH	(60°-80°)	1891.7	28.6			G2/5000
FVH	(80°-90°)	48.4	0.7			G1/100
BL	(0°-30°)	339.3	5.1	B1/500		
BM	(30°-60°)	717.6	10.8	B1/1000		
BH	(60°-80°)	536.1	8.1	B2/1000		G2/1000
BVH	(80°-90°)	38.1	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium



REPORT NUMBER: P960480

CATALOG NUMBER: NAV-SB1C-827-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	970.1	970.1	970.1	970.1	970.1	970.1	970.1	970.1	970.1	970.1	970.1
2.5°	993.2	998.9	997.1	995.3	995.3	992.8	992.5	989.0	986.2	981.6	980.6
5°	1005.8	1011.8	1011.2	1012.5	1017.1	1018.1	1019.2	1017.1	1011.5	1005.8	1003.4
7.5°	994.7	1001.3	1003.4	1011.8	1025.8	1038.5	1048.0	1051.9	1046.6	1038.5	1034.6
10°	956.7	964.1	971.5	991.5	1016.4	1046.2	1071.5	1086.6	1085.6	1077.8	1071.1
12.5°	879.9	887.5	903.3	942.3	988.0	1040.6	1087.6	1119.3	1130.2	1124.5	1112.9
15°	818.4	825.0	837.0	877.0	936.3	1016.4	1093.7	1155.1	1182.8	1179.7	1165.6
17.5°	816.6	819.4	826.8	845.7	891.4	978.5	1087.3	1190.1	1243.2	1242.8	1225.3
20°	847.5	848.6	852.8	856.6	882.6	949.7	1071.1	1219.3	1311.0	1311.0	1292.0
22.5°	890.3	889.6	893.9	890.3	903.0	947.2	1061.0	1245.0	1386.4	1392.1	1368.2
25°	954.6	951.1	950.1	942.0	944.4	970.1	1072.3	1274.1	1476.0	1487.6	1457.7
27.5°	1040.3	1034.6	1030.7	1012.2	1005.8	1017.1	1106.6	1309.2	1575.6	1595.7	1557.8
30°	1151.9	1141.7	1136.1	1103.8	1081.0	1082.7	1158.6	1355.9	1680.0	1712.3	1664.1
32.5°	1304.3	1288.4	1273.4	1220.4	1178.5	1164.9	1225.6	1420.4	1793.0	1844.6	1782.8
35°	1474.9	1462.3	1446.1	1364.3	1300.1	1268.4	1316.2	1510.7	1925.4	2007.2	1926.8
37.5°	1639.2	1628.3	1636.0	1525.8	1443.0	1397.0	1434.9	1631.8	2088.6	2209.4	2107.2
40°	1809.1	1800.7	1801.7	1696.5	1599.9	1548.3	1578.8	1783.8	2275.7	2449.9	2324.2
42.5°	1993.8	1987.5	1966.5	1873.0	1764.5	1716.5	1744.6	1959.4	2476.5	2723.7	2562.2
45°	2200.6	2196.7	2177.1	2070.0	1945.7	1891.6	1929.6	2153.2	2678.4	2981.4	2801.3
47.5°	2379.3	2382.4	2379.9	2289.7	2160.9	2081.6	2126.9	2355.4	2866.2	3223.6	3030.5
50°	2465.3	2481.8	2506.0	2477.9	2397.9	2317.1	2325.9	2550.6	3045.3	3450.8	3250.4
52.5°	2420.3	2451.6	2517.6	2562.6	2593.5	2576.6	2553.1	2744.4	3213.8	3655.9	3458.1
55°	2253.0	2296.8	2406.3	2514.8	2672.5	2795.0	2825.8	2959.3	3378.1	3836.3	3654.7
57.5°	1947.8	2019.0	2117.3	2336.8	2602.3	2900.6	3144.0	3257.3	3552.2	4029.1	3860.6
60°	1424.6	1520.2	1642.4	1968.9	2356.5	2844.2	3414.7	3715.2	3799.8	4278.7	4128.4
62.5°	911.7	970.8	1083.1	1390.6	1836.2	2554.5	3497.5	4287.5	4219.3	4688.0	4530.0
65°	624.2	662.2	765.1	937.8	1187.1	1901.5	3275.6	4716.4	4885.7	5336.9	5216.7
67.5°	453.6	482.4	570.2	721.5	773.5	1125.2	2541.8	4696.8	5533.5	6005.3	5818.5
70°	330.8	351.1	424.8	570.2	595.1	626.0	1539.9	3992.5	5519.4	6182.9	5959.2
72.5°	245.1	259.1	308.6	442.4	481.6	422.7	762.2	2901.7	4742.8	5592.4	5413.0
75°	177.3	187.8	224.4	338.5	385.5	322.0	380.2	1695.8	3308.3	3933.8	3965.5
77.5°	135.5	143.6	167.5	247.8	308.6	241.6	236.0	780.1	1568.7	1576.3	1664.8
80°	108.9	114.1	127.1	174.5	236.7	180.8	153.8	314.9	495.7	419.5	440.2
82.5°	80.1	88.9	107.4	122.5	169.2	124.6	93.8	159.1	188.5	162.2	163.6
85°	45.6	51.7	65.0	87.7	108.1	76.2	53.7	70.5	87.7	72.0	64.3
87.5°	16.2	21.1	22.9	34.4	47.0	31.6	20.7	20.4	28.8	21.4	17.9
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: P960480

CATALOG NUMBER: NAV-SB1C-827-U-T2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	970.1	970.1	970.1	970.1	970.1	970.1	970.1	970.1	970.1	970.1	970.1
2.5°	977.0	975.3	968.3	958.8	948.9	939.5	936.3	929.7	925.1	922.6	925.5
5°	996.7	991.1	974.6	953.6	931.4	907.5	890.7	875.2	864.0	853.5	857.7
7.5°	1024.8	1015.0	986.6	949.7	910.4	870.7	841.2	818.8	803.6	793.8	795.9
10°	1057.5	1042.3	998.9	943.7	882.9	826.2	791.3	772.0	762.6	757.3	758.7
12.5°	1095.0	1073.6	1011.5	930.0	841.2	776.2	752.3	746.7	747.1	747.4	748.1
15°	1141.3	1111.5	1021.6	900.2	786.8	738.0	733.8	742.9	752.3	757.0	756.6
17.5°	1193.7	1151.6	1023.4	851.1	733.4	713.4	726.7	746.4	760.8	767.1	768.5
20°	1249.9	1192.3	1010.8	781.6	689.5	693.4	717.3	742.5	758.3	766.4	768.5
22.5°	1314.2	1235.8	980.6	708.5	653.7	671.6	699.7	724.3	740.8	748.9	751.0
25°	1387.4	1284.6	933.2	647.1	622.8	647.1	675.2	695.5	708.8	716.2	718.3
27.5°	1468.9	1335.5	870.0	598.3	595.8	621.8	644.9	660.7	667.8	673.4	675.5
30°	1550.7	1381.9	793.5	561.4	572.3	596.9	613.4	620.3	622.5	623.5	626.0
32.5°	1639.2	1421.9	713.1	530.8	549.8	572.7	582.4	585.6	575.7	569.1	571.2
35°	1746.3	1464.7	634.4	506.7	527.7	547.3	550.5	547.7	536.1	522.4	523.2
37.5°	1878.6	1518.1	571.5	489.4	507.0	520.0	516.1	515.4	516.4	500.3	501.3
40°	2040.9	1587.6	525.6	476.1	490.2	492.9	482.1	488.0	493.2	468.7	469.3
42.5°	2221.0	1671.5	496.4	467.0	476.1	469.3	452.5	459.2	458.5	426.2	425.9
45°	2404.5	1762.8	486.3	460.2	463.1	449.8	431.1	432.9	418.1	389.0	390.0
47.5°	2587.1	1860.8	492.6	454.7	446.9	431.8	417.5	409.7	388.0	366.1	366.1
50°	2766.2	1963.6	515.8	443.4	424.8	416.0	405.5	391.9	368.6	350.0	348.6
52.5°	2932.2	2067.2	541.7	424.8	397.1	402.3	395.6	379.9	357.0	338.0	338.5
55°	3089.6	2170.7	551.9	399.1	371.0	390.4	386.5	357.4	330.0	314.6	313.1
57.5°	3260.8	2295.4	540.7	366.5	350.0	376.7	361.9	329.6	313.9	302.3	301.2
60°	3498.2	2491.0	516.4	326.2	330.0	356.4	331.1	317.8	300.5	287.5	286.8
62.5°	3892.4	2855.8	477.4	286.2	306.5	326.2	316.3	303.0	285.5	272.8	272.8
65°	4475.3	3362.7	404.1	254.9	280.1	296.6	300.5	287.2	269.0	255.6	256.2
67.5°	4966.7	3680.8	305.8	228.9	253.2	272.8	283.7	270.7	251.3	238.4	238.7
70°	4939.8	3449.7	233.5	203.3	229.3	249.3	263.3	253.2	232.4	220.2	221.2
72.5°	4387.5	2885.9	188.9	177.3	205.0	224.7	241.6	233.8	212.8	200.8	200.8
75°	3223.3	2048.6	151.0	151.0	174.9	199.1	217.7	212.8	193.4	185.0	182.6
77.5°	1358.7	859.5	118.3	125.4	145.3	171.0	194.1	195.9	179.1	189.6	172.0
80°	361.3	237.0	90.2	98.6	114.1	141.1	168.9	168.2	150.0	140.1	130.3
82.5°	137.7	93.4	64.3	69.5	82.5	108.1	133.8	138.0	119.7	103.5	103.5
85°	53.0	40.0	39.7	41.8	48.1	71.6	101.1	104.7	90.2	76.6	79.0
87.5°	13.7	11.9	14.8	14.0	22.1	38.2	57.9	60.1	55.1	32.0	45.6
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)