

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: P960360

Luminaire Tested: **NAV-SB1C-735-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960360
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1C-735-U-T3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3500K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7684.4 lumens
Efficiency: N/A
Efficacy: 141.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

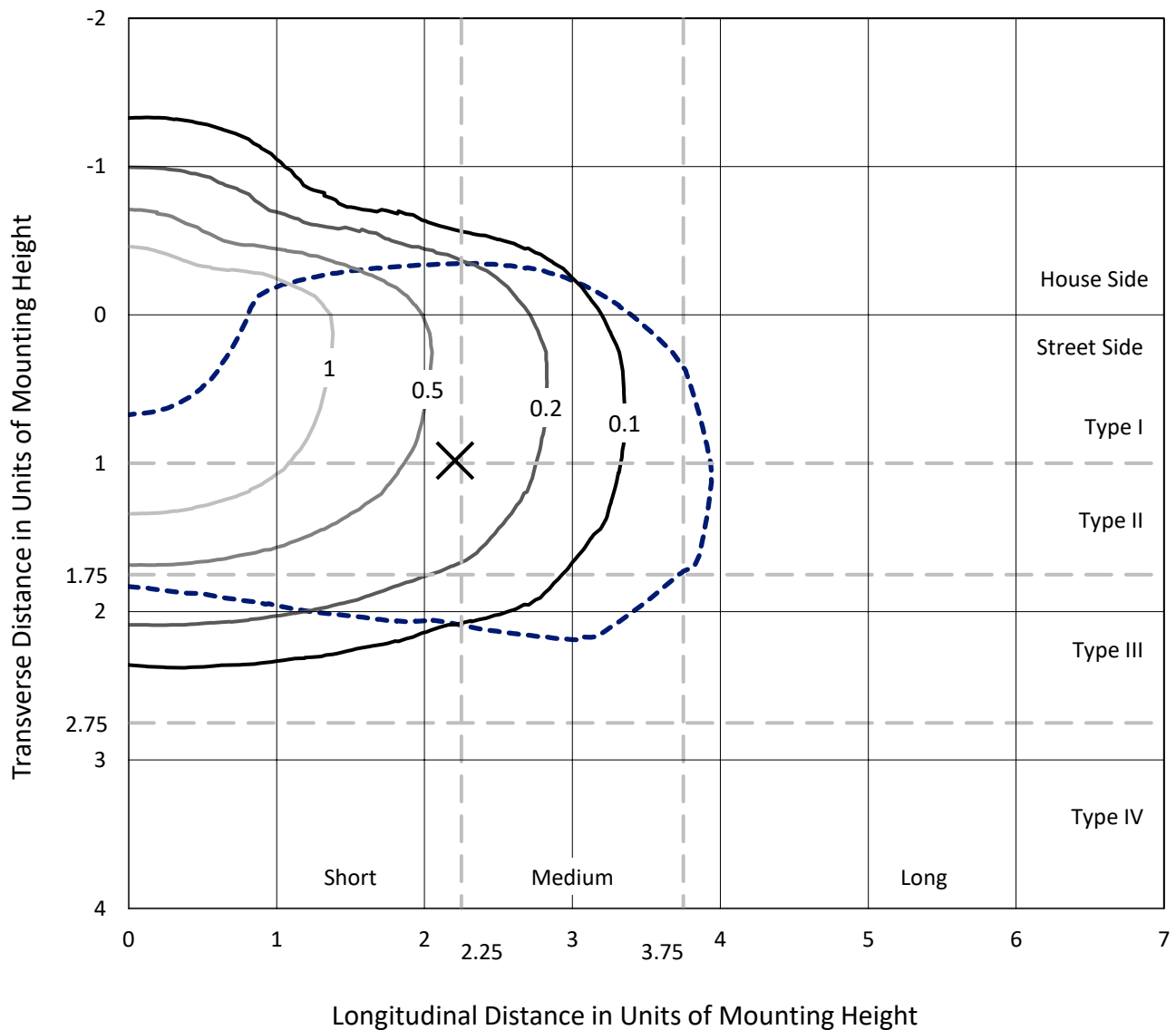
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P960360
CATALOG NUMBER: NAV-SB1C-735-U-T3

Iso-Footcandle Lines of Horizontal Illumination

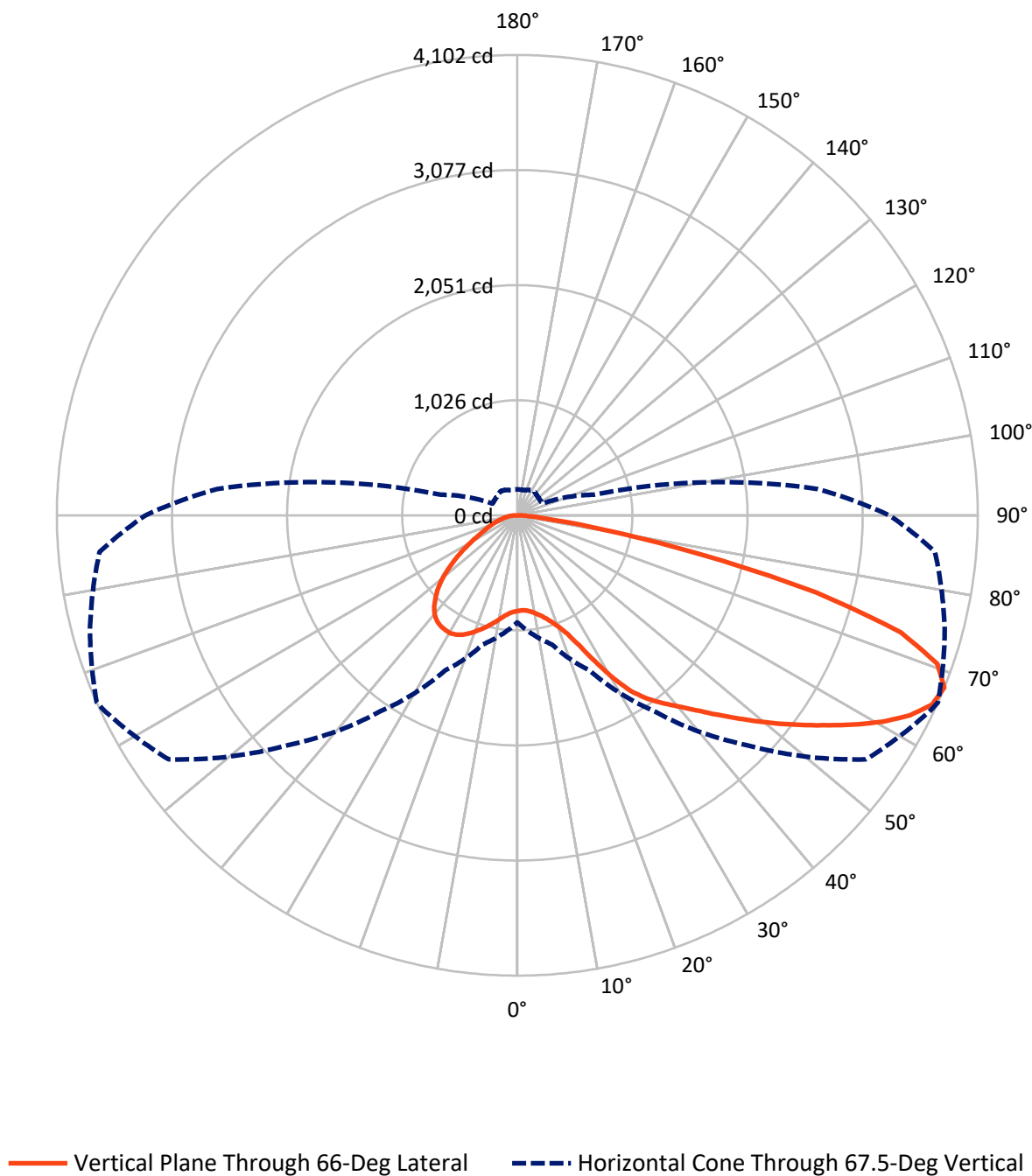
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
Type III - Short - N/A

REPORT NUMBER: P960360
CATALOG NUMBER: NAV-SB1C-735-U-T3

Luminous Intensity Polar Plot



REPORT NUMBER: P960360

CATALOG NUMBER: NAV-SB1C-735-U-T3

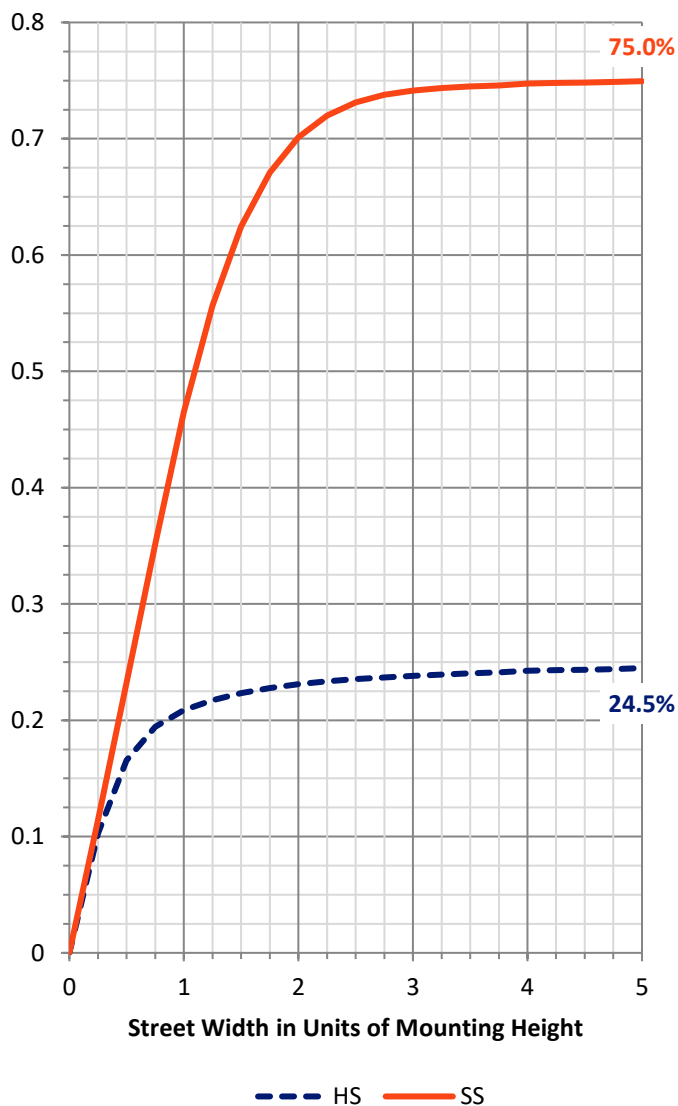
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1910.7	0.0	1910.7
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	5773.7	0.0	5773.7
	% Fixture	75.1	0.0	75.1
Total	Lumens	7684.4	0.0	7684.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.5	1.1
10°-20°	279.2	3.6
20°-30°	538.1	7.0
30°-40°	943.5	12.3
40°-50°	1402.7	18.3
50°-60°	1778.1	23.1
60°-70°	1739.8	22.6
70°-80°	829.9	10.8
80°-90°	88.7	1.2
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°	7684.4	100.0
0°-180°	7684.4	100.0

Coefficient of Utilization



REPORT NUMBER: P960360

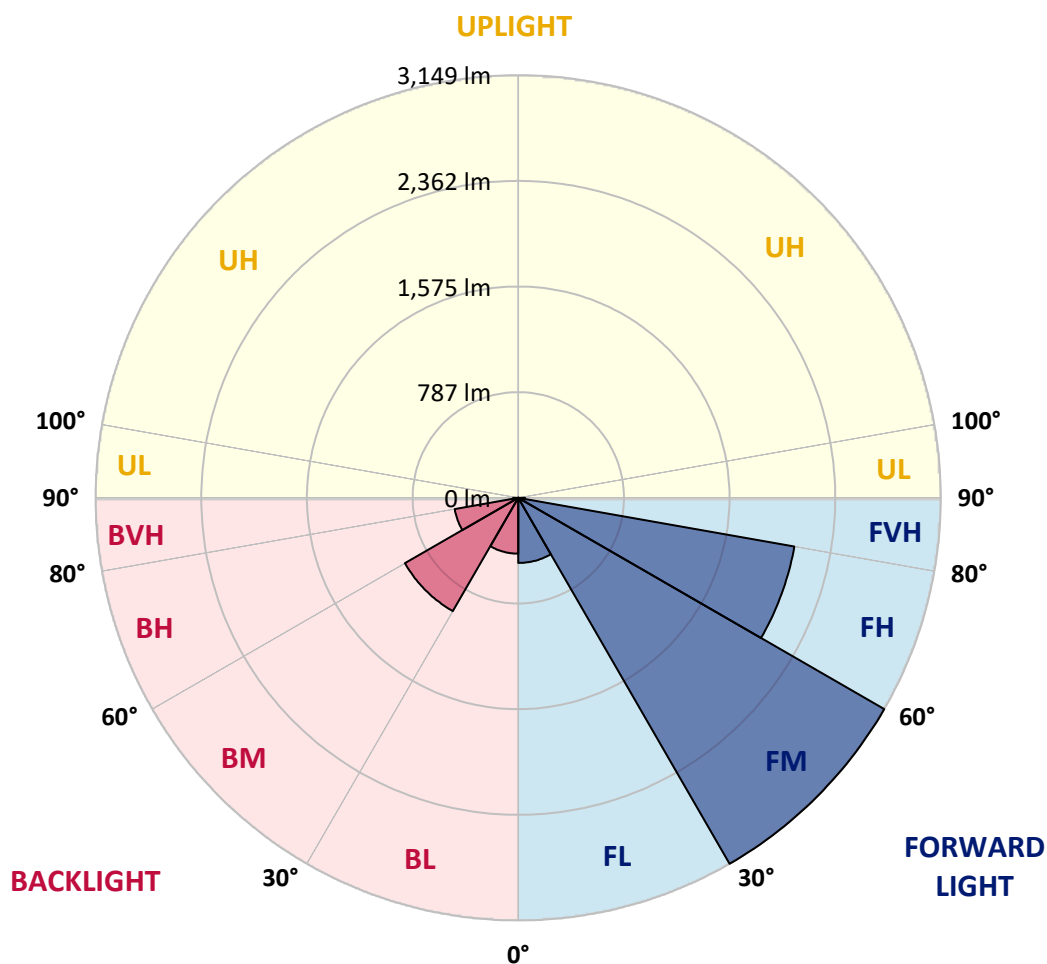
CATALOG NUMBER: NAV-SB1C-735-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	485.6	6.3			
FM	(30°-60°)	3149.0	41.0			
FH	(60°-80°)	2088.8	27.2			G2/5000
FVH	(80°-90°)	50.3	0.7			G1/100
BL	(0°-30°)	416.2	5.4	B1/500		
BM	(30°-60°)	975.2	12.7	B1/1000		
BH	(60°-80°)	480.8	6.3	B1/500		G1/500
BVH	(80°-90°)	38.4	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short



REPORT NUMBER: P960360

CATALOG NUMBER: NAV-SB1C-735-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	852.3	852.3	852.3	852.3	852.3	852.3	852.3	852.3	852.3	852.3	852.3
2.5°	843.5	848.3	847.1	845.0	844.6	845.4	846.6	847.9	847.5	849.5	852.7
5°	841.0	845.8	845.4	845.4	847.1	850.2	852.3	854.3	852.3	854.7	859.2
7.5°	842.7	846.2	847.9	849.5	853.5	859.6	864.4	868.9	866.4	869.3	874.9
10°	863.3	866.0	867.7	867.7	870.4	877.3	882.2	890.2	888.3	892.7	900.0
12.5°	900.8	903.5	903.5	902.0	903.9	908.5	910.0	918.9	915.3	922.6	929.8
15°	946.8	952.4	948.0	945.2	946.0	950.4	950.0	956.8	953.2	959.3	965.8
17.5°	997.6	1004.9	997.6	997.2	995.6	1000.5	1000.9	1007.0	1000.5	1004.9	1009.3
20°	1057.8	1067.9	1061.8	1063.8	1060.3	1062.2	1064.3	1073.2	1063.0	1066.3	1065.1
22.5°	1142.6	1154.7	1148.2	1155.9	1153.5	1151.9	1151.5	1167.3	1151.5	1152.7	1141.0
25°	1266.2	1280.6	1269.4	1279.9	1279.9	1285.1	1291.2	1311.4	1285.1	1277.5	1247.1
27.5°	1448.6	1463.2	1440.9	1447.4	1445.5	1458.4	1451.9	1501.9	1473.6	1461.1	1400.1
30°	1668.3	1694.1	1652.1	1650.6	1648.5	1669.1	1678.3	1711.4	1682.8	1670.3	1596.8
32.5°	1905.7	1932.7	1882.6	1868.2	1860.5	1873.0	1865.3	1891.9	1872.2	1852.8	1762.0
35°	2156.8	2183.5	2135.8	2107.5	2076.9	2050.6	2023.1	2030.0	2011.5	1981.9	1887.9
37.5°	2394.2	2443.1	2392.6	2362.3	2305.7	2254.5	2177.8	2145.9	2128.5	2101.5	2006.6
40°	2636.1	2663.9	2625.5	2599.7	2538.3	2458.0	2335.3	2267.8	2244.4	2218.2	2137.8
42.5°	2814.1	2840.8	2820.2	2802.4	2754.4	2661.1	2502.4	2418.0	2384.1	2354.6	2286.4
45°	2955.4	2975.2	2962.2	2968.7	2948.1	2857.7	2675.7	2579.1	2543.9	2508.1	2454.4
47.5°	3012.4	3033.3	3053.9	3092.3	3127.4	3060.8	2861.7	2753.6	2716.4	2679.7	2626.8
50°	3005.9	3027.2	3087.0	3168.6	3277.6	3255.4	3058.0	2939.3	2905.0	2862.9	2814.1
52.5°	2954.2	2978.4	3055.1	3190.8	3364.4	3401.2	3257.9	3131.1	3098.8	3048.7	2999.9
55°	2818.5	2833.1	2948.1	3140.3	3385.0	3502.8	3453.6	3335.4	3303.1	3233.2	3179.9
57.5°	2567.0	2588.0	2755.5	3004.3	3333.3	3571.9	3625.6	3550.1	3519.0	3418.5	3362.8
60°	2238.8	2272.3	2464.1	2775.7	3201.7	3571.5	3781.8	3761.2	3735.4	3601.0	3542.8
62.5°	1867.3	1906.1	2090.6	2452.7	2971.6	3470.1	3879.6	3938.2	3924.8	3769.3	3695.0
65°	1434.1	1460.7	1644.4	2034.8	2613.4	3252.5	3890.9	4058.8	4061.3	3897.4	3774.6
67.5°	954.9	1031.6	1191.0	1526.9	2133.7	2896.9	3791.6	4078.6	4102.0	3941.3	3734.6
70°	466.0	566.8	723.1	992.4	1526.9	2351.5	3531.9	3916.3	3968.4	3813.0	3496.4
72.5°	193.4	226.1	311.3	489.7	876.6	1586.7	3010.3	3476.3	3572.7	3378.5	2939.7
75°	130.4	141.3	178.0	251.1	399.3	782.5	2171.0	2592.0	2747.5	2551.6	2085.8
77.5°	100.6	107.4	129.6	175.6	237.4	295.9	1161.9	1562.1	1642.5	1520.5	1085.3
80°	79.1	84.4	96.9	128.0	168.4	158.3	396.1	707.8	754.2	632.6	348.8
82.5°	68.7	70.6	69.5	86.8	111.8	92.5	130.0	261.3	288.2	209.1	113.9
85°	49.6	55.4	57.7	53.7	59.3	46.8	53.3	92.5	101.8	90.8	64.2
87.5°	20.2	29.8	36.7	34.7	21.8	13.3	16.5	27.1	31.1	33.9	21.0
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: P960360

CATALOG NUMBER: NAV-SB1C-735-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	852.3	852.3	852.3	852.3	852.3	852.3	852.3	852.3	852.3	852.3	852.3
2.5°	853.1	856.0	857.9	860.4	862.0	864.4	869.3	872.1	872.5	874.5	874.1
5°	860.8	864.8	869.3	875.8	883.0	889.1	898.3	904.8	907.2	909.3	908.9
7.5°	877.3	883.0	891.0	902.4	912.9	921.0	932.2	939.9	947.6	950.4	950.8
10°	902.0	910.0	921.8	937.1	948.4	958.9	970.6	977.0	984.7	988.0	989.5
12.5°	932.6	941.2	956.4	977.8	988.4	995.6	999.7	998.0	999.7	1002.4	1003.3
15°	967.8	977.0	994.5	1017.4	1024.7	1018.2	1009.3	1001.3	1000.1	1000.9	1003.7
17.5°	1009.3	1016.2	1036.4	1055.8	1050.5	1023.9	1004.5	991.6	985.1	983.1	985.9
20°	1067.5	1067.5	1084.0	1096.1	1061.1	1015.8	985.5	964.5	951.2	945.6	944.3
22.5°	1138.2	1131.7	1142.2	1133.8	1059.0	993.2	951.2	914.9	894.7	886.6	885.4
25°	1227.7	1220.2	1217.3	1164.8	1044.5	957.2	889.1	845.0	827.3	822.9	823.6
27.5°	1363.0	1343.7	1306.9	1181.7	1017.8	900.8	816.4	775.6	765.5	765.9	767.1
30°	1543.1	1504.4	1414.3	1184.6	974.3	820.8	742.1	713.0	708.2	710.2	717.1
32.5°	1709.9	1673.1	1524.2	1171.7	907.2	742.5	675.5	656.1	648.8	651.3	654.5
35°	1840.7	1830.5	1625.9	1153.5	824.8	669.0	615.7	599.1	585.1	581.8	584.2
37.5°	1964.2	1960.2	1702.2	1128.0	743.3	616.9	567.6	545.8	525.3	513.9	514.3
40°	2099.9	2095.8	1752.2	1088.9	671.1	571.7	524.5	495.8	470.4	449.8	451.8
42.5°	2252.5	2228.7	1776.1	1032.8	609.7	533.3	489.3	450.6	417.1	398.1	399.3
45°	2419.2	2365.5	1775.7	961.3	558.0	498.3	451.8	396.9	365.8	348.0	347.3
47.5°	2596.1	2496.4	1753.9	882.2	507.9	459.5	393.6	351.7	331.1	320.2	317.8
50°	2778.6	2618.7	1716.7	791.3	456.6	415.4	357.3	328.6	312.9	302.8	299.2
52.5°	2950.2	2729.7	1671.9	688.4	404.6	372.7	341.1	319.0	302.4	291.1	286.3
55°	3109.6	2825.4	1608.5	583.0	362.1	344.0	333.5	314.9	295.9	282.6	277.4
57.5°	3251.4	2887.6	1499.1	484.1	331.9	324.2	325.4	308.0	286.3	274.9	267.7
60°	3369.3	2933.2	1337.2	392.5	307.3	304.8	312.9	295.1	269.7	256.8	251.1
62.5°	3439.9	2932.4	1138.6	321.3	286.3	287.1	296.3	279.0	253.2	241.1	237.4
65°	3433.9	2860.6	920.6	274.9	266.1	266.9	279.0	261.3	239.4	232.2	231.8
67.5°	3312.3	2685.3	706.1	244.7	243.8	247.5	261.6	249.1	230.9	230.1	231.3
70°	2983.3	2321.5	508.7	220.5	220.9	226.1	244.7	241.5	226.5	228.2	227.8
72.5°	2392.1	1770.0	341.5	195.1	195.4	203.9	228.5	235.3	222.0	243.4	246.7
75°	1593.2	1103.8	219.7	168.0	168.4	179.3	214.4	223.7	209.9	242.6	244.7
77.5°	765.5	496.2	159.1	141.3	141.3	151.4	185.3	200.3	178.9	188.5	172.8
80°	264.4	186.5	125.2	113.9	111.4	118.3	156.2	173.6	154.3	142.2	133.2
82.5°	104.1	96.9	100.6	88.5	80.4	84.8	121.6	143.3	113.5	102.5	102.2
85°	59.8	62.9	71.0	58.5	46.4	52.1	89.3	102.9	85.6	75.5	77.1
87.5°	16.2	22.2	32.7	30.2	21.0	22.2	42.4	56.9	49.3	37.9	39.2
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)