

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: P969958

Luminaire Tested: **NAV-SB6A-827-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969958
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-SB6A-827-U-SLR-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 350mA 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: 18503.3 lumens
Efficiency: N/A
Efficacy: 108.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 170.9
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

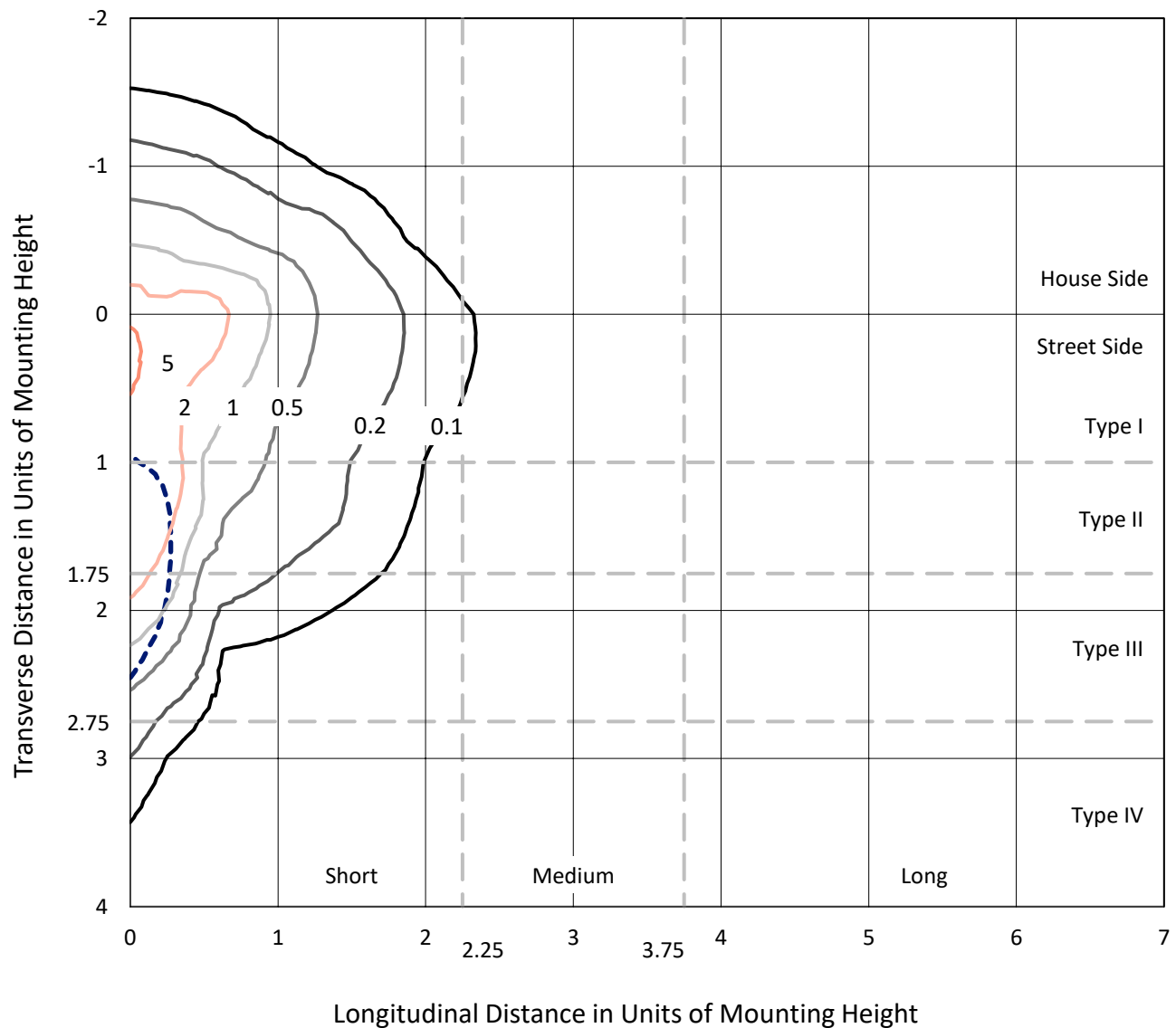


REPORT NUMBER: P969958

CATALOG NUMBER: NAV-SB6A-827-U-SLR-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

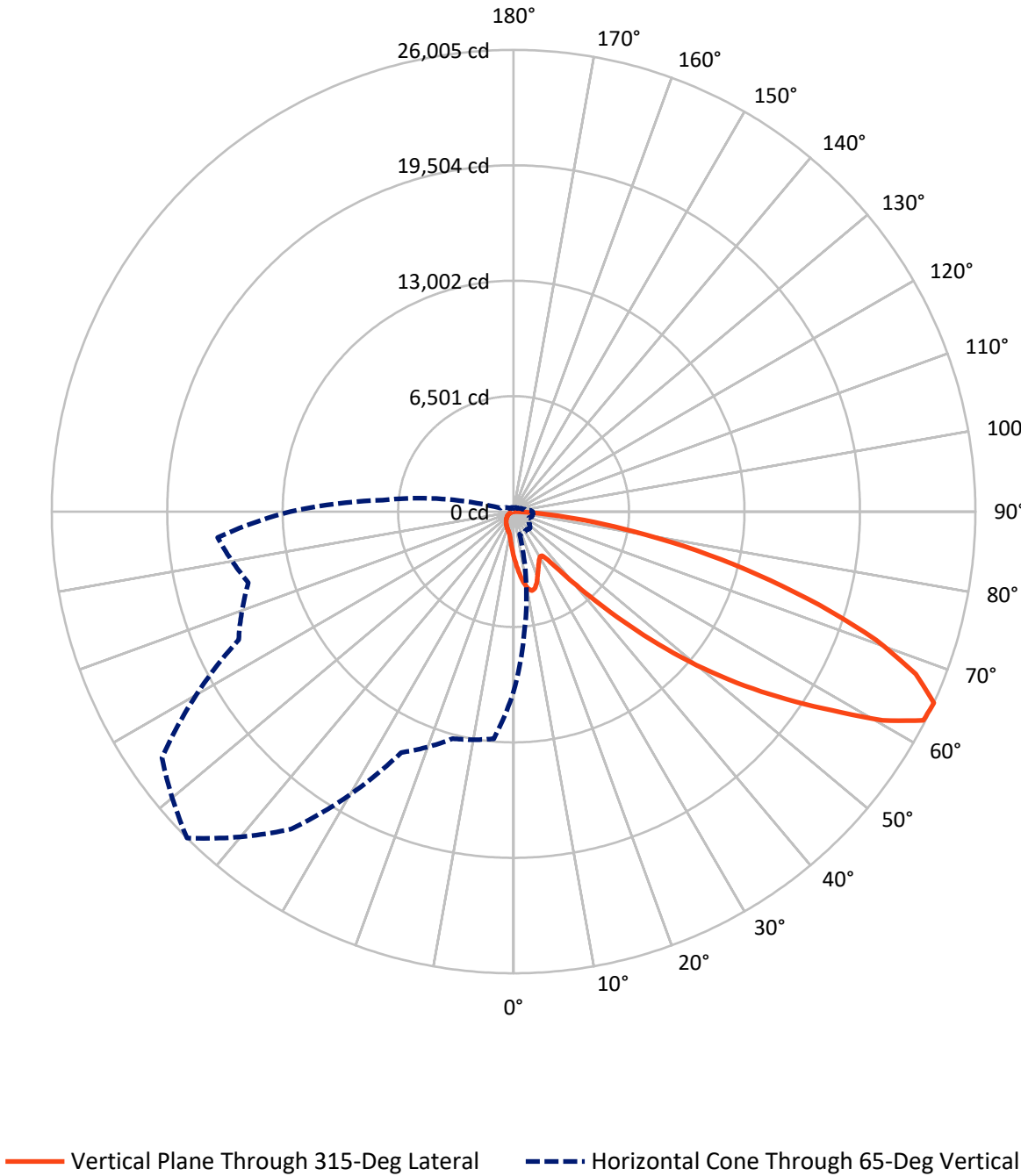


Based on 25 foot mounting height. Maximum calculated value = 5.7 fc

Type IV - Short - N/A

REPORT NUMBER: P969958
CATALOG NUMBER: NAV-SB6A-827-U-SLR-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P969958

CATALOG NUMBER: NAV-SB6A-827-U-SLR-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2591.3	0.0	2591.3
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	15912.1	0.0	15912.1
	% Fixture	86.0	0.0	86.0
Total	Lumens	18503.3	0.0	18503.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.2	1.4
10°-20°	756.2	4.1
20°-30°	1114.0	6.0
30°-40°	1431.2	7.7
40°-50°	2314.6	12.5
50°-60°	4058.9	21.9
60°-70°	5078.8	27.4
70°-80°	2967.8	16.0
80°-90°	529.5	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°	18503.3	100.0
0°-180°	18503.3	100.0

Coefficient of Utilization



REPORT NUMBER: P969958

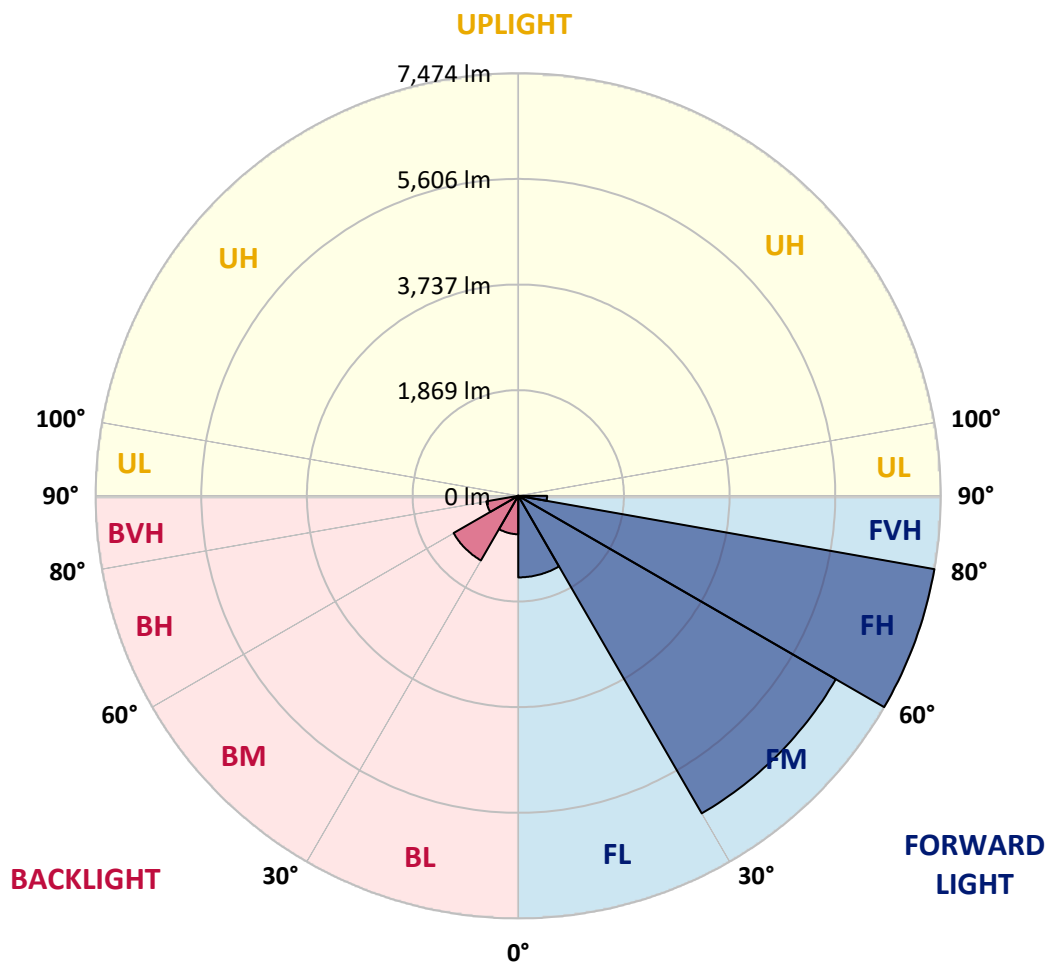
CATALOG NUMBER: NAV-SB6A-827-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1443.2	7.8			
FM	(30°-60°)	6485.2	35.0			
FH	(60°-80°)	7474.5	40.4			G3/7500
FVH	(80°-90°)	509.2	2.8			G4/750
BL	(0°-30°)	679.2	3.7	B2/1000		
BM	(30°-60°)	1319.5	7.1	B2/2500		
BH	(60°-80°)	572.2	3.1	B2/1000		G2/1000
BVH	(80°-90°)	20.3	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short



REPORT NUMBER: P969958

CATALOG NUMBER: NAV-SB6A-827-U-SLR-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2562.1	2562.1	2562.1	2562.1	2562.1	2562.1	2562.1	2562.1	2562.1	2562.1	2562.1
2.5°	2894.8	2845.1	2815.8	2743.1	2670.4	2611.8	2532.8	2480.5	2418.1	2358.1	2304.6
5°	3226.2	3145.9	3049.1	2916.4	2795.4	2671.8	2551.9	2433.4	2308.4	2193.7	2123.6
7.5°	3506.6	3390.7	3219.8	3043.9	2889.7	2740.5	2600.3	2443.6	2291.9	2112.1	2016.6
10°	3720.9	3572.9	3348.6	3117.8	2940.7	2790.3	2653.9	2521.3	2368.4	2151.7	2031.9
12.5°	3850.8	3692.8	3426.4	3156.1	2953.4	2785.2	2679.4	2620.7	2560.9	2345.4	2205.2
15°	3946.5	3775.6	3481.2	3182.9	2924.1	2717.6	2639.9	2698.5	2767.3	2629.6	2467.8
17.5°	4045.9	3866.1	3552.5	3194.3	2845.1	2586.4	2553.2	2704.9	2864.3	2857.8	2697.2
20°	4140.2	3961.7	3615.0	3186.7	2717.6	2427.0	2456.3	2650.0	2834.9	2912.6	2825.9
22.5°	4248.5	4059.8	3674.9	3157.4	2551.9	2277.9	2369.6	2563.4	2725.3	2817.0	2790.3
25°	4381.1	4183.5	3759.1	3114.1	2373.5	2154.2	2281.6	2462.7	2594.0	2657.7	2656.5
27.5°	4523.8	4331.3	3871.2	3091.1	2229.4	2066.3	2182.2	2342.8	2460.1	2504.8	2504.8
30°	4701.1	4503.4	4003.8	3065.6	2135.1	2015.3	2079.0	2204.0	2318.7	2363.2	2363.2
32.5°	4894.8	4694.7	4131.3	3004.5	2077.8	1977.0	1978.4	2057.4	2161.8	2215.4	2223.0
35°	5137.0	4924.1	4267.7	2870.6	2031.9	1932.4	1880.2	1918.4	2005.1	2068.9	2085.4
37.5°	5482.4	5224.9	4434.7	2679.4	1964.3	1863.6	1776.9	1785.9	1852.1	1922.2	1947.7
40°	5959.1	5629.0	4631.0	2480.5	1867.4	1766.7	1663.5	1659.7	1708.1	1776.9	1804.9
42.5°	6604.2	6163.1	4866.7	2290.6	1774.4	1649.4	1543.6	1537.3	1575.5	1635.4	1664.7
45°	7455.6	6846.3	5156.1	2127.5	1701.7	1534.7	1430.2	1427.6	1459.5	1511.8	1542.3
47.5°	8545.5	7795.9	5445.4	2016.6	1663.5	1444.2	1337.1	1342.2	1370.3	1417.5	1439.1
50°	9956.5	9033.7	5533.4	1960.4	1663.5	1395.7	1254.3	1279.8	1302.8	1338.4	1351.2
52.5°	11648.1	10221.7	5242.8	1909.5	1673.6	1402.2	1184.2	1239.0	1255.5	1286.2	1291.3
55°	13215.9	10804.2	4507.2	1839.4	1676.2	1441.7	1124.3	1205.8	1236.5	1247.9	1246.6
57.5°	14126.0	10604.1	3644.3	1720.9	1666.0	1468.4	1086.0	1165.0	1223.7	1231.3	1219.9
60°	13952.7	9901.7	2683.2	1630.4	1590.8	1458.3	1074.5	1102.6	1195.7	1207.1	1191.9
62.5°	12616.8	8724.0	1862.3	1560.3	1425.1	1413.6	1070.7	1004.5	1134.5	1162.6	1140.8
65°	10141.3	6868.0	1315.5	1343.5	1249.2	1316.7	1050.3	902.5	1060.6	1098.8	1065.6
67.5°	7357.4	4647.5	949.7	1088.6	1131.9	1160.0	1004.5	828.5	976.4	1027.4	984.1
70°	4721.5	2509.8	666.7	718.9	953.5	985.3	925.4	762.3	891.0	949.7	902.5
72.5°	3356.3	1482.5	479.3	503.5	766.1	820.9	814.6	688.3	791.6	862.9	806.9
75°	2316.1	817.0	323.8	359.5	555.8	666.7	628.4	591.4	670.5	743.1	688.3
77.5°	1451.9	365.8	193.7	249.8	364.6	523.9	430.8	457.7	522.6	590.2	532.8
80°	808.1	141.4	108.3	165.7	198.8	381.1	238.4	294.5	385.0	433.4	387.6
82.5°	175.9	17.8	48.5	71.3	77.8	221.8	126.2	170.8	242.2	238.4	206.5
85°	0.0	0.0	8.9	10.1	5.1	95.6	45.9	56.1	79.0	73.9	56.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	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: P969958

CATALOG NUMBER: NAV-SB6A-827-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	2562.1	2562.1	2562.1	2562.1	2562.1	2562.1	2562.1	2562.1	2562.1	2562.1	2562.1
2.5°	2294.5	2231.9	2186.1	2163.2	2144.0	2161.8	2172.1	2172.1	2215.4	2240.9	2251.1
5°	2079.0	1966.9	1881.4	1824.1	1789.6	1801.1	1813.8	1827.9	1882.7	1919.7	1943.9
7.5°	1929.9	1757.8	1627.8	1547.4	1505.4	1511.8	1520.7	1532.2	1585.7	1622.7	1654.6
10°	1901.8	1654.6	1471.0	1365.2	1314.2	1305.2	1300.2	1296.3	1328.2	1356.3	1381.8
12.5°	2016.6	1659.7	1403.4	1274.7	1212.3	1185.4	1154.9	1130.7	1135.7	1153.6	1185.4
15°	2221.8	1724.7	1381.8	1227.5	1149.7	1105.2	1069.5	1040.2	1033.8	1040.2	1045.2
17.5°	2456.3	1812.6	1379.2	1186.7	1089.9	1044.0	1014.6	987.9	979.0	980.2	986.6
20°	2611.8	1882.7	1371.6	1140.8	1032.5	991.7	966.2	939.4	930.5	933.1	934.4
22.5°	2627.1	1919.7	1360.1	1089.9	975.1	940.7	915.2	891.0	889.7	889.7	897.4
25°	2544.3	1919.7	1335.9	1044.0	920.3	889.7	866.7	837.4	842.6	845.1	855.4
27.5°	2415.5	1873.8	1290.0	1007.0	873.2	841.3	818.4	791.6	798.0	801.8	813.2
30°	2288.1	1815.2	1235.1	964.9	828.5	791.6	775.0	752.0	754.6	759.7	772.4
32.5°	2169.5	1752.6	1170.1	930.5	783.9	746.9	734.2	708.7	712.6	717.6	731.6
35°	2052.3	1683.9	1093.7	889.7	743.1	706.2	696.0	666.7	669.2	676.8	692.2
37.5°	1926.1	1611.2	1031.3	848.9	703.7	665.4	655.2	624.6	627.1	636.1	653.9
40°	1793.4	1539.9	970.1	805.6	661.5	623.3	614.4	581.3	583.8	594.0	613.2
42.5°	1659.7	1462.1	922.9	749.5	618.2	577.4	568.5	537.9	541.7	553.2	572.4
45°	1536.0	1369.0	892.3	687.1	577.4	531.6	522.6	494.6	502.2	515.0	534.1
47.5°	1430.2	1273.5	879.6	634.8	534.1	484.4	476.7	453.8	466.6	480.5	495.9
50°	1339.7	1181.6	862.9	581.3	493.3	443.6	435.9	420.7	437.3	451.2	465.2
52.5°	1274.7	1077.1	827.3	532.8	457.7	409.2	406.6	398.9	414.3	427.0	439.7
55°	1218.6	968.7	769.9	490.8	425.8	379.9	382.4	378.5	391.3	401.5	413.0
57.5°	1167.6	874.4	697.2	457.7	391.3	354.3	362.0	356.9	363.3	369.6	383.7
60°	1106.4	778.8	610.6	420.7	350.5	328.8	337.8	323.8	322.5	325.0	328.8
62.5°	1015.9	650.1	520.1	374.7	314.9	300.8	304.6	277.9	257.5	257.5	261.3
65°	889.7	522.6	435.9	323.8	274.1	262.6	260.0	221.8	193.7	191.2	202.6
67.5°	743.1	429.6	362.0	272.8	228.2	220.5	223.0	195.1	167.0	164.4	177.2
70°	605.5	355.7	291.9	218.0	175.9	183.6	195.1	167.0	140.2	136.4	147.9
72.5°	492.0	283.0	228.2	167.0	130.0	151.7	165.7	136.4	110.9	108.3	118.6
75°	379.9	207.8	163.2	113.5	94.3	117.3	130.0	99.4	79.0	75.2	84.2
77.5°	253.7	128.7	91.7	71.3	56.1	80.3	86.7	52.3	45.9	44.6	50.9
80°	154.3	59.9	39.6	34.4	19.2	29.3	34.4	21.6	24.2	25.5	30.5
82.5°	77.8	16.6	6.4	1.2	0.0	0.0	10.1	5.1	10.1	12.7	19.2
85°	6.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	6.4	11.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1
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: P969958

CATALOG NUMBER: NAV-SB6A-827-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	2562.1	2562.1	2562.1	2562.1	2562.1	2562.1	2562.1	2562.1	2562.1	2562.1	2562.1
2.5°	2322.4	2376.1	2427.0	2508.6	2592.7	2675.6	2759.7	2841.3	2870.6	2892.2	2940.7
5°	2054.8	2155.5	2272.7	2434.7	2608.0	2786.5	2967.5	3133.2	3208.4	3259.4	3374.1
7.5°	1778.2	1909.5	2077.8	2321.2	2592.7	2877.0	3161.2	3422.6	3543.6	3641.7	3816.4
10°	1504.1	1646.9	1859.8	2137.6	2504.8	2912.6	3305.2	3664.7	3821.5	3945.1	4182.2
12.5°	1263.2	1397.1	1620.1	1927.3	2367.1	2884.7	3388.1	3820.3	4005.1	4144.0	4404.0
15°	1093.7	1188.0	1385.6	1717.0	2204.0	2794.1	3393.2	3894.2	4096.8	4242.2	4467.8
17.5°	999.4	1031.3	1160.0	1502.9	2022.9	2675.6	3346.0	3919.7	4136.4	4271.5	4428.2
20°	948.3	953.5	989.1	1225.0	1790.9	2564.7	3301.4	3945.1	4173.3	4286.8	4333.9
22.5°	907.5	907.5	916.5	1001.9	1491.4	2432.1	3287.4	3989.7	4224.3	4294.4	4197.6
25°	870.6	870.6	873.2	896.1	1181.6	2229.4	3278.5	4058.6	4294.4	4313.5	4047.1
27.5°	832.4	833.6	833.6	846.3	952.2	1954.1	3240.2	4147.9	4378.5	4339.0	3903.1
30°	794.2	796.6	796.6	805.6	842.6	1631.6	3165.0	4254.9	4488.2	4372.1	3760.3
32.5°	755.9	758.4	758.4	766.1	792.8	1302.8	3070.7	4353.1	4599.1	4386.2	3627.8
35°	716.4	720.2	717.6	727.9	755.9	1036.3	2950.9	4451.2	4718.9	4430.8	3562.7
37.5°	676.8	679.4	678.1	688.3	720.2	894.8	2812.0	4525.2	4882.1	4530.2	3640.5
40°	637.3	636.1	636.1	647.5	681.9	854.0	2637.3	4642.4	5116.6	4704.9	3979.6
42.5°	596.6	596.6	594.0	606.8	648.8	823.5	2470.4	4852.8	5458.2	4982.7	4581.2
45°	559.5	558.3	553.2	564.7	616.9	769.9	2411.7	5245.3	5962.9	5432.7	5309.1
47.5°	523.9	522.6	509.8	520.1	578.7	721.5	2631.0	5887.8	6662.8	6094.2	5991.0
50°	492.0	493.3	469.0	478.0	540.5	684.5	3106.4	6721.4	7592.0	6985.3	6637.3
52.5°	462.7	462.7	430.8	435.9	493.3	651.4	3558.9	7625.2	8818.3	8228.1	7390.7
55°	433.4	430.8	395.1	397.7	446.2	604.2	3626.4	8507.2	10490.7	10098.1	8420.6
57.5°	400.3	395.1	362.0	362.0	402.8	569.8	3143.4	9185.3	12565.9	12846.2	9905.6
60°	359.5	355.7	333.9	327.6	368.4	600.3	2218.0	9264.4	13904.2	16500.8	12749.4
62.5°	307.2	312.3	300.8	291.9	335.3	623.3	1314.2	8628.3	13580.5	17663.3	16155.3
65°	242.2	262.6	260.0	253.7	368.4	525.2	776.2	7407.2	12587.5	16725.1	15460.7
67.5°	206.5	220.5	216.7	216.7	386.2	398.9	488.2	5787.0	11221.1	15612.3	13809.9
70°	175.9	189.9	175.9	175.9	291.9	242.2	337.8	4040.8	9746.2	14381.0	12726.4
72.5°	145.3	159.3	144.0	133.9	233.3	181.0	247.3	2525.2	8346.7	13098.7	11984.6
75°	110.9	127.5	116.0	103.2	154.3	135.1	187.4	1467.2	6915.2	11207.0	10927.8
77.5°	70.1	91.7	86.7	72.7	113.5	98.2	135.1	873.2	5335.8	8757.1	9399.6
80°	43.4	47.2	48.5	45.9	65.0	66.3	91.7	497.1	3652.0	6103.2	7343.4
82.5°	28.1	28.1	21.6	24.2	31.9	38.2	52.3	187.4	2146.6	3715.7	5111.5
85°	20.4	17.8	11.5	11.5	15.3	19.2	20.4	57.4	870.6	1467.2	1998.7
87.5°	10.1	8.9	3.8	5.1	7.7	6.4	5.1	2.6	219.2	469.0	328.8
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: P969958

CATALOG NUMBER: NAV-SB6A-827-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	2562.1	2562.1	2562.1	2562.1	2562.1	2562.1	2562.1	2562.1
2.5°	2966.1	3005.7	3008.3	3008.3	2973.8	2972.6	2902.5	2894.8
5°	3492.6	3518.1	3524.5	3511.8	3442.9	3391.9	3255.5	3226.2
7.5°	3974.4	4025.5	4025.5	3994.8	3882.7	3778.2	3580.6	3506.6
10°	4359.4	4418.1	4405.3	4342.8	4201.4	4057.4	3817.7	3720.9
12.5°	4546.8	4606.7	4573.5	4502.2	4364.6	4212.9	3960.4	3850.8
15°	4543.0	4526.4	4492.0	4483.0	4416.8	4302.0	4066.3	3946.5
17.5°	4381.1	4240.8	4214.1	4303.4	4387.5	4359.4	4158.0	4045.9
20°	4124.9	3880.1	3855.9	4026.7	4266.4	4388.7	4243.4	4140.2
22.5°	3854.6	3590.8	3534.7	3723.3	4084.1	4397.7	4351.7	4248.5
25°	3598.5	3333.3	3277.2	3453.1	3881.4	4382.4	4469.0	4381.1
27.5°	3384.2	3128.1	3075.8	3251.7	3686.4	4339.0	4586.4	4523.8
30°	3218.6	2981.5	2943.3	3112.8	3518.1	4285.5	4735.5	4701.1
32.5°	3121.7	2948.3	2962.4	3101.3	3427.6	4226.9	4878.2	4894.8
35°	3217.3	3225.0	3347.3	3404.6	3511.8	4218.0	5072.0	5137.0
37.5°	3692.8	3957.9	4211.5	4164.4	3923.5	4321.2	5361.4	5482.4
40°	4502.2	5046.5	5458.2	5278.4	4671.7	4637.3	5778.1	5959.1
42.5°	5491.3	6414.2	7092.4	6610.5	5636.7	5190.5	6373.4	6604.2
45°	6535.3	8100.6	9168.8	8166.9	6665.4	5965.5	7274.6	7455.6
47.5°	7635.3	10150.3	11532.1	9892.8	7618.8	6847.6	8503.4	8545.5
50°	8838.7	12397.6	13941.2	11617.5	8539.1	7858.5	10005.0	9956.5
52.5°	9984.6	14708.5	16299.3	13349.8	9347.3	9112.8	11747.5	11648.1
55°	11078.3	17018.3	18671.6	15014.5	10109.5	10769.8	13817.6	13215.9
57.5°	12346.6	19094.7	21116.4	16686.9	11175.2	12921.5	16132.4	14126.0
60°	14221.7	21454.2	23881.2	18978.8	13201.9	15182.8	16962.2	13952.7
62.5°	16615.6	23623.7	25891.4	21224.8	15237.5	15608.5	15739.8	12616.8
65°	17080.8	24173.1	26004.9	21825.1	14974.9	13240.1	12850.1	10141.3
67.5°	15846.9	23180.2	24419.1	20707.3	13246.5	10231.9	9643.0	7357.4
70°	14462.5	21287.2	21655.6	18806.7	11650.7	7525.8	6512.3	4721.5
72.5°	13043.8	18762.1	17999.8	16332.6	10239.5	5479.9	4697.2	3356.3
75°	11358.7	15441.5	14178.3	13570.3	8477.9	4300.8	3398.3	2316.1
77.5°	9096.2	10869.2	10531.5	10518.7	6370.9	3142.1	2267.7	1451.9
80°	6416.8	7054.2	6882.1	7922.1	4274.0	2279.1	1365.2	808.1
82.5°	3106.4	3900.5	4003.8	4717.6	2079.0	1341.0	314.9	175.9
85°	1216.1	1881.4	1587.0	1790.9	583.8	373.5	7.7	0.0
87.5°	136.4	218.0	200.1	158.1	71.3	15.3	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)