

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: P970485

Luminaire Tested: **NAV-SB6B-827-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970485
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-SB6B-827-U-SLR-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 450mA 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: 23227.5 lumens
Efficiency: N/A
Efficacy: 105.4 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): 220.4
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

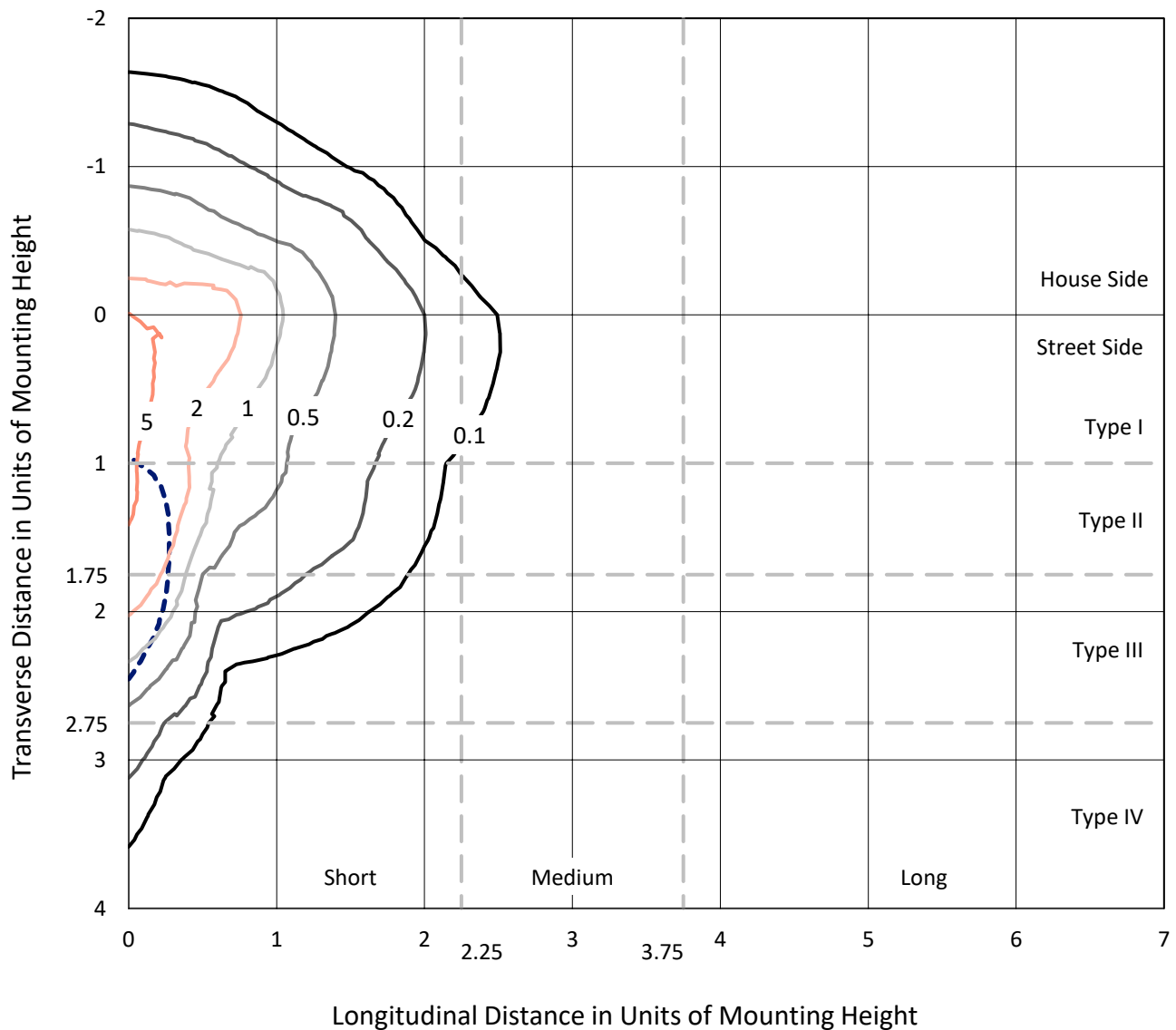


REPORT NUMBER: P970485

CATALOG NUMBER: NAV-SB6B-827-U-SLR-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

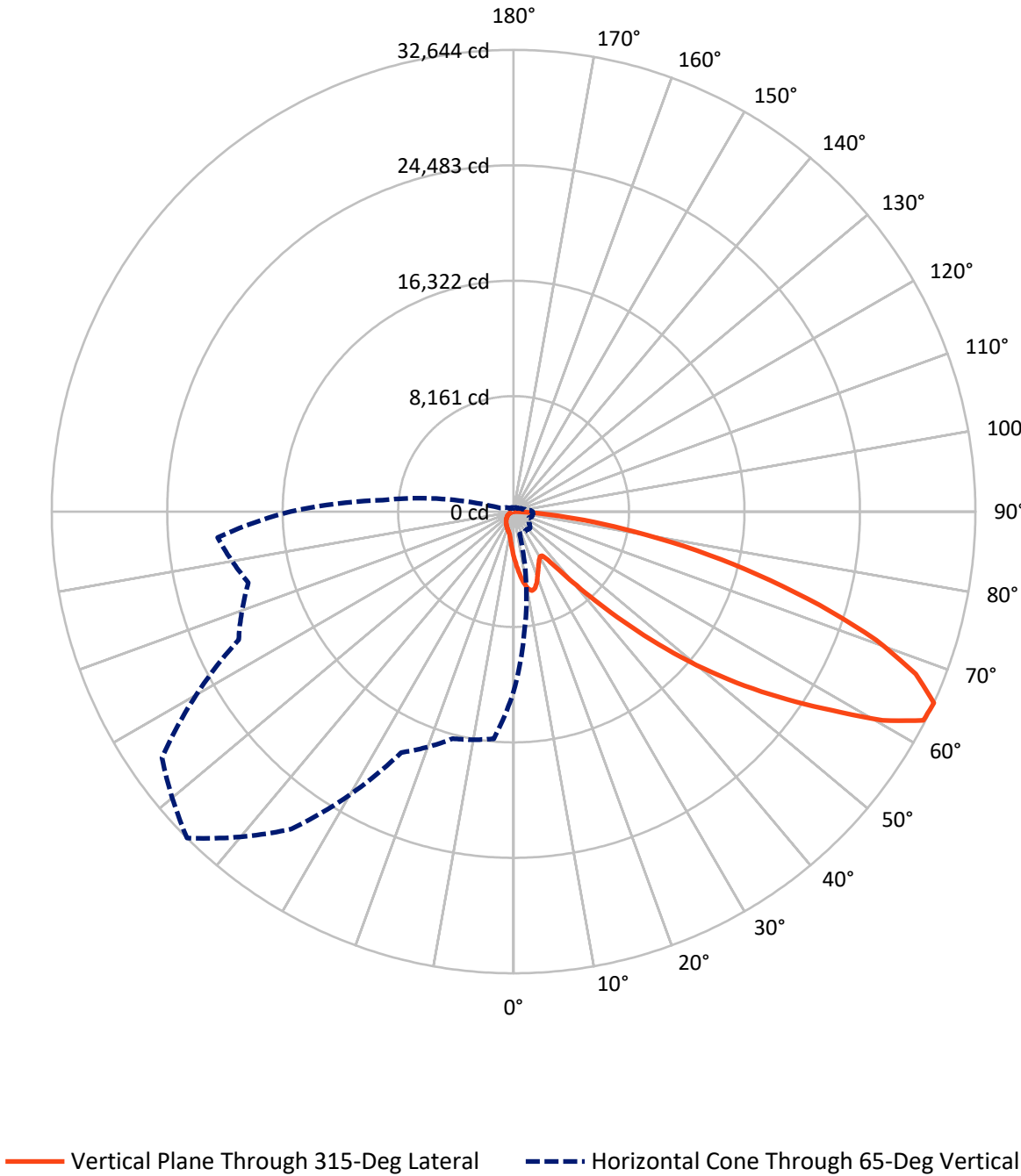


Based on 25 foot mounting height. Maximum calculated value = 7.2 fc

Type IV - Short - N/A

REPORT NUMBER: P970485
CATALOG NUMBER: NAV-SB6B-827-U-SLR-HSS

Luminous Intensity Polar Plot



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CATALOG NUMBER: NAV-SB6B-827-U-SLR-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3252.8	0.0	3252.8
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	19974.7	0.0	19974.7
	% Fixture	86.0	0.0	86.0
Total	Lumens	23227.5	0.0	23227.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	316.7	1.4
10°-20°	949.2	4.1
20°-30°	1398.4	6.0
30°-40°	1796.6	7.7
40°-50°	2905.6	12.5
50°-60°	5095.2	21.9
60°-70°	6375.5	27.4
70°-80°	3725.6	16.0
80°-90°	664.7	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°	23227.5	100.0
0°-180°	23227.5	100.0

Coefficient of Utilization



REPORT NUMBER: P970485

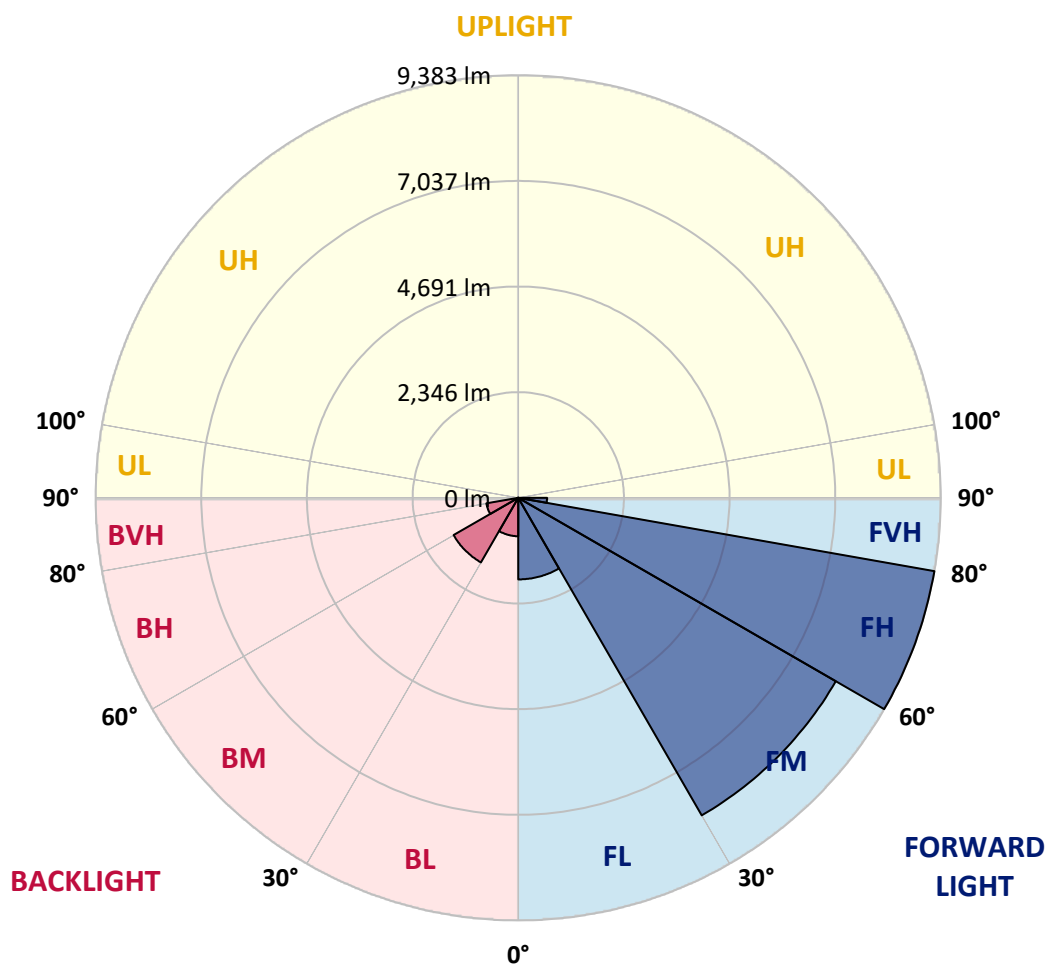
CATALOG NUMBER: NAV-SB6B-827-U-SLR-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1811.7	7.8			
FM	(30°-60°)	8141.0	35.0			
FH	(60°-80°)	9382.9	40.4			G4/12000
FVH	(80°-90°)	639.2	2.8			G4/750
BL	(0°-30°)	852.6	3.7	B2/1000		
BM	(30°-60°)	1656.4	7.1	B2/2500		
BH	(60°-80°)	718.2	3.1	B2/1000		G2/1000
BVH	(80°-90°)	25.5	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: P970485

CATALOG NUMBER: NAV-SB6B-827-U-SLR-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3216.2	3216.2	3216.2	3216.2	3216.2	3216.2	3216.2	3216.2	3216.2	3216.2	3216.2
2.5°	3633.9	3571.5	3534.7	3443.5	3352.3	3278.7	3179.4	3113.8	3035.4	2960.2	2893.1
5°	4050.0	3949.1	3827.6	3661.1	3509.1	3353.9	3203.4	3054.7	2897.9	2753.9	2665.8
7.5°	4402.0	4256.3	4042.0	3821.1	3627.5	3440.3	3264.3	3067.4	2877.1	2651.5	2531.4
10°	4670.8	4485.2	4203.5	3914.0	3691.5	3502.7	3331.5	3165.1	2973.0	2701.0	2550.6
12.5°	4834.0	4635.6	4301.2	3961.9	3707.5	3496.3	3363.4	3289.8	3214.7	2944.2	2768.2
15°	4954.0	4739.6	4370.0	3995.6	3670.7	3411.5	3313.9	3387.5	3473.9	3301.1	3097.9
17.5°	5078.9	4853.2	4459.6	4009.9	3571.5	3246.7	3205.1	3395.5	3595.5	3587.5	3385.9
20°	5197.3	4973.2	4538.0	4000.4	3411.5	3046.6	3083.5	3326.6	3558.7	3656.3	3547.5
22.5°	5333.3	5096.4	4613.2	3963.6	3203.4	2859.4	2974.7	3217.9	3421.0	3536.2	3502.7
25°	5499.6	5251.7	4718.8	3909.1	2979.5	2704.3	2864.3	3091.5	3256.3	3336.3	3334.6
27.5°	5678.9	5437.2	4859.6	3880.3	2798.7	2593.9	2739.4	2941.0	3088.2	3144.3	3144.3
30°	5901.3	5653.3	5026.0	3848.4	2680.3	2529.8	2609.9	2766.7	2910.7	2966.7	2966.7
32.5°	6144.5	5893.3	5186.0	3771.5	2608.2	2481.8	2483.4	2582.6	2713.8	2781.0	2790.7
35°	6448.6	6181.4	5357.3	3603.5	2550.6	2425.8	2360.2	2408.2	2517.0	2597.0	2617.8
37.5°	6882.2	6559.0	5566.9	3363.4	2465.8	2339.4	2230.6	2241.8	2325.0	2413.0	2445.0
40°	7480.7	7066.1	5813.3	3113.8	2344.2	2217.8	2088.1	2083.4	2144.2	2230.6	2265.8
42.5°	8290.3	7736.6	6109.3	2875.4	2227.4	2070.6	1937.8	1929.8	1977.7	2053.0	2089.8
45°	9359.2	8594.3	6472.6	2670.6	2136.2	1926.6	1795.4	1792.1	1832.2	1897.8	1936.1
47.5°	10727.3	9786.4	6835.7	2531.4	2088.1	1812.9	1678.5	1684.9	1720.2	1779.4	1806.6
50°	12498.6	11340.2	6946.2	2461.0	2088.1	1752.1	1574.5	1606.6	1635.4	1680.2	1696.2
52.5°	14622.0	12831.5	6581.3	2397.0	2100.9	1760.1	1486.6	1555.3	1576.1	1614.6	1620.9
55°	16590.1	13562.7	5658.1	2309.0	2104.2	1809.7	1411.3	1513.7	1552.2	1566.5	1565.0
57.5°	17732.7	13311.5	4574.8	2160.2	2091.4	1843.4	1363.4	1462.6	1536.2	1545.7	1531.4
60°	17515.1	12429.9	3368.3	2046.6	1997.0	1830.5	1348.9	1384.2	1500.9	1515.4	1496.1
62.5°	15838.1	10951.3	2337.8	1958.6	1788.9	1774.6	1344.1	1261.0	1424.1	1459.3	1432.1
65°	12730.7	8621.5	1651.4	1686.5	1568.1	1652.9	1318.6	1132.9	1331.3	1379.3	1337.7
67.5°	9236.0	5834.1	1192.1	1366.5	1421.0	1456.1	1261.0	1040.1	1225.7	1289.8	1235.3
70°	5926.9	3150.6	836.9	902.5	1196.9	1236.9	1161.7	956.8	1118.5	1192.1	1132.9
72.5°	4213.2	1861.0	601.7	632.0	961.7	1030.5	1022.4	864.1	993.6	1083.3	1012.9
75°	2907.4	1025.7	406.4	451.2	697.6	836.9	788.8	742.5	841.6	932.9	864.1
77.5°	1822.6	459.2	243.2	313.6	457.7	657.6	540.9	574.4	656.1	740.9	668.8
80°	1014.4	177.6	136.0	208.0	249.6	478.5	299.2	369.6	483.3	544.1	486.5
82.5°	220.8	22.4	60.8	89.6	97.6	278.4	158.4	214.4	304.0	299.2	259.2
85°	0.0	0.0	11.2	12.8	6.4	120.0	57.6	70.4	99.2	92.8	70.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	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: P970485

CATALOG NUMBER: NAV-SB6B-827-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	3216.2	3216.2	3216.2	3216.2	3216.2	3216.2	3216.2	3216.2	3216.2	3216.2	3216.2
2.5°	2880.2	2801.8	2744.2	2715.4	2691.4	2713.8	2726.6	2726.6	2781.0	2813.0	2825.8
5°	2609.9	2469.0	2361.8	2289.7	2246.6	2260.9	2277.0	2294.6	2363.4	2409.8	2440.2
7.5°	2422.6	2206.6	2043.3	1942.6	1889.8	1897.8	1909.0	1923.3	1990.5	2037.0	2077.0
10°	2387.4	2077.0	1846.5	1713.7	1649.7	1638.6	1632.1	1627.3	1667.4	1702.5	1734.5
12.5°	2531.4	2083.4	1761.8	1600.1	1521.7	1488.1	1449.8	1419.3	1425.7	1448.1	1488.1
15°	2789.0	2165.0	1734.5	1540.9	1443.3	1387.3	1342.5	1305.7	1297.8	1305.7	1312.1
17.5°	3083.5	2275.4	1731.3	1489.7	1368.1	1310.5	1273.7	1240.1	1228.9	1230.5	1238.5
20°	3278.7	2363.4	1721.8	1432.1	1296.1	1244.9	1212.9	1179.3	1168.1	1171.3	1172.9
22.5°	3297.8	2409.8	1707.3	1368.1	1224.1	1180.9	1148.9	1118.5	1116.9	1116.9	1126.5
25°	3193.9	2409.8	1676.9	1310.5	1155.3	1116.9	1088.1	1051.2	1057.7	1060.9	1073.7
27.5°	3032.3	2352.2	1619.3	1264.1	1096.1	1056.1	1027.3	993.6	1001.7	1006.4	1020.9
30°	2872.3	2278.6	1550.5	1211.3	1040.1	993.6	972.9	944.1	947.3	953.7	969.6
32.5°	2723.4	2200.2	1468.9	1168.1	984.1	937.7	921.7	889.7	894.5	900.9	918.5
35°	2576.2	2113.8	1372.9	1116.9	932.9	886.5	873.7	836.9	840.1	849.6	868.9
37.5°	2417.8	2022.5	1294.5	1065.7	883.2	835.3	822.5	784.0	787.3	798.5	820.8
40°	2251.4	1932.9	1217.7	1011.3	830.5	782.5	771.3	729.7	732.9	745.7	769.7
42.5°	2083.4	1835.4	1158.5	940.8	776.0	724.9	713.7	675.3	680.1	694.4	718.4
45°	1928.1	1718.5	1120.1	862.4	724.9	667.3	656.1	620.8	630.5	646.5	670.5
47.5°	1795.4	1598.5	1104.1	796.8	670.5	608.0	598.5	569.7	585.7	603.2	622.5
50°	1681.7	1483.3	1083.3	729.7	619.2	556.9	547.2	528.1	548.9	566.4	584.0
52.5°	1600.1	1352.1	1038.5	668.8	574.4	513.6	510.4	500.8	520.1	536.1	552.1
55°	1529.7	1216.1	966.5	616.0	534.4	476.8	480.0	475.2	491.3	504.0	518.4
57.5°	1465.7	1097.7	875.2	574.4	491.3	444.8	454.5	448.0	456.0	464.0	481.6
60°	1388.9	977.6	766.5	528.1	440.0	412.9	424.0	406.4	404.9	408.1	412.9
62.5°	1275.3	816.1	652.8	470.5	395.2	377.6	382.4	348.8	323.2	323.2	328.0
65°	1116.9	656.1	547.2	406.4	344.0	329.6	326.5	278.4	243.2	240.1	254.4
67.5°	932.9	539.3	454.5	342.5	286.4	276.9	280.0	244.8	209.6	206.4	222.4
70°	760.0	446.4	366.4	273.6	220.8	230.4	244.8	209.6	176.0	171.2	185.6
72.5°	617.7	355.3	286.4	209.6	163.2	190.4	208.0	171.2	139.2	136.0	148.8
75°	476.8	260.9	204.8	142.4	118.4	147.2	163.2	124.8	99.2	94.4	105.6
77.5°	318.5	161.6	115.2	89.6	70.4	100.8	108.9	65.6	57.6	56.0	64.0
80°	193.6	75.2	49.6	43.2	24.0	36.8	43.2	27.2	30.4	32.0	38.4
82.5°	97.6	20.8	8.0	1.6	0.0	0.0	12.8	6.4	12.8	16.0	24.0
85°	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	8.0	14.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.4
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: P970485

CATALOG NUMBER: NAV-SB6B-827-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	3216.2	3216.2	3216.2	3216.2	3216.2	3216.2	3216.2	3216.2	3216.2	3216.2	3216.2
2.5°	2915.4	2982.6	3046.6	3149.1	3254.7	3358.7	3464.3	3566.7	3603.5	3630.7	3691.5
5°	2579.4	2705.8	2853.1	3056.2	3273.8	3497.9	3725.2	3933.1	4027.5	4091.5	4235.5
7.5°	2232.1	2397.0	2608.2	2913.9	3254.7	3611.5	3968.3	4296.4	4448.4	4571.6	4790.8
10°	1888.2	2067.3	2334.6	2683.4	3144.3	3656.3	4149.1	4600.4	4797.2	4952.4	5250.0
12.5°	1585.8	1753.8	2033.8	2419.4	2971.5	3621.1	4253.1	4795.6	5027.6	5202.1	5528.4
15°	1372.9	1491.4	1739.3	2155.4	2766.7	3507.4	4259.6	4888.4	5142.8	5325.3	5608.5
17.5°	1254.5	1294.5	1456.1	1886.5	2539.4	3358.7	4200.3	4920.4	5192.4	5362.1	5558.9
20°	1190.5	1196.9	1241.7	1537.7	2248.2	3219.4	4144.4	4952.4	5238.9	5381.2	5440.5
22.5°	1139.3	1139.3	1150.5	1257.7	1872.2	3053.1	4126.8	5008.5	5302.8	5390.9	5269.2
25°	1092.9	1092.9	1096.1	1124.9	1483.3	2798.7	4115.6	5094.9	5390.9	5414.9	5080.4
27.5°	1044.9	1046.5	1046.5	1062.5	1195.3	2453.0	4067.5	5206.8	5496.5	5446.8	4899.6
30°	996.9	1000.1	1000.1	1011.3	1057.7	2048.2	3973.1	5341.3	5634.1	5488.5	4720.4
32.5°	948.8	952.1	952.1	961.7	995.3	1635.4	3854.7	5464.5	5773.3	5506.1	4554.0
35°	899.2	904.0	900.9	913.7	948.8	1300.9	3704.3	5587.7	5923.7	5562.1	4472.4
37.5°	849.6	852.9	851.3	864.1	904.0	1123.3	3529.9	5680.4	6128.5	5686.9	4570.0
40°	800.1	798.5	798.5	812.8	856.1	1072.0	3310.6	5827.6	6423.0	5906.0	4995.6
42.5°	748.9	748.9	745.7	761.7	814.5	1033.7	3101.0	6091.7	6851.8	6255.0	5750.9
45°	702.4	700.9	694.4	708.9	774.5	966.5	3027.4	6584.6	7485.5	6819.7	6664.6
47.5°	657.6	656.1	640.0	652.8	726.4	905.7	3302.7	7391.0	8363.9	7650.2	7520.6
50°	617.7	619.2	588.9	600.0	678.4	859.3	3899.5	8437.5	9530.3	8768.8	8331.9
52.5°	580.9	580.9	540.9	547.2	619.2	817.6	4467.6	9572.0	11069.7	10328.8	9277.6
55°	544.1	540.9	496.0	499.3	560.1	758.5	4552.3	10679.3	13169.1	12676.3	10570.5
57.5°	502.5	496.0	454.5	454.5	505.6	715.2	3945.9	11530.5	15774.1	16126.1	12434.7
60°	451.2	446.4	419.2	411.2	462.5	753.7	2784.2	11629.8	17454.2	20713.7	16004.6
62.5°	385.6	392.1	377.6	366.4	420.9	782.5	1649.7	10831.3	17047.8	22173.0	20280.1
65°	304.0	329.6	326.5	318.5	462.5	659.3	974.5	9298.4	15801.3	20995.4	19408.1
67.5°	259.2	276.9	272.0	272.0	484.8	500.8	612.8	7264.6	14086.0	19598.4	17335.8
70°	220.8	238.4	220.8	220.8	366.4	304.0	424.0	5072.4	12234.6	18052.7	15975.8
72.5°	182.4	200.0	180.8	168.0	292.8	227.2	310.5	3169.9	10477.7	16442.9	15044.4
75°	139.2	160.0	145.7	129.6	193.6	169.6	235.2	1841.7	8680.7	14068.3	13718.0
77.5°	88.0	115.2	108.9	91.2	142.4	123.2	169.6	1096.1	6698.2	10992.9	11799.4
80°	54.4	59.2	60.8	57.6	81.6	83.2	115.2	624.0	4584.4	7661.5	9218.3
82.5°	35.2	35.2	27.2	30.4	40.0	48.0	65.6	235.2	2694.6	4664.4	6416.5
85°	25.6	22.4	14.3	14.3	19.2	24.0	25.6	72.0	1092.9	1841.7	2509.0
87.5°	12.8	11.2	4.8	6.4	9.6	8.0	6.4	3.2	275.2	588.9	412.9
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: P970485

CATALOG NUMBER: NAV-SB6B-827-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	3216.2	3216.2	3216.2	3216.2	3216.2	3216.2	3216.2	3216.2
2.5°	3723.5	3773.1	3776.3	3776.3	3733.2	3731.5	3643.5	3633.9
5°	4384.3	4416.4	4424.4	4408.3	4321.9	4258.0	4086.8	4050.0
7.5°	4989.2	5053.2	5053.2	5014.8	4874.0	4742.8	4494.7	4402.0
10°	5472.5	5546.1	5530.1	5451.7	5274.0	5093.2	4792.4	4670.8
12.5°	5707.7	5782.8	5741.2	5651.6	5478.8	5288.5	4971.7	4834.0
15°	5702.9	5682.1	5638.8	5627.7	5544.4	5400.4	5104.4	4954.0
17.5°	5499.6	5323.6	5290.0	5402.1	5507.6	5472.5	5219.6	5078.9
20°	5178.0	4870.8	4840.4	5054.8	5355.6	5509.3	5326.8	5197.3
22.5°	4838.8	4507.5	4437.1	4674.0	5126.8	5520.4	5462.8	5333.3
25°	4517.2	4184.4	4113.9	4334.7	4872.4	5501.3	5610.0	5499.6
27.5°	4248.3	3926.8	3861.1	4082.0	4627.6	5446.8	5757.3	5678.9
30°	4040.3	3742.7	3694.7	3907.5	4416.4	5379.6	5944.5	5901.3
32.5°	3918.7	3701.1	3718.7	3893.2	4302.7	5306.0	6123.8	6144.5
35°	4038.7	4048.3	4202.0	4273.9	4408.3	5294.8	6366.9	6448.6
37.5°	4635.6	4968.4	5286.8	5227.6	4925.2	5424.4	6730.2	6882.2
40°	5651.6	6334.9	6851.8	6626.1	5864.5	5821.3	7253.4	7480.7
42.5°	6893.3	8051.9	8903.2	8298.3	7075.8	6515.7	8000.6	8290.3
45°	8203.9	10168.8	11509.7	10252.0	8367.1	7488.6	9131.9	9359.2
47.5°	9584.8	12741.9	14476.4	12418.6	9564.0	8596.0	10674.5	10727.3
50°	11095.3	15562.9	17500.6	14583.6	10719.3	9864.8	12559.4	12498.6
52.5°	12533.8	18463.9	20460.9	16758.2	11733.8	11439.3	14746.9	14622.0
55°	13906.8	21363.4	23438.8	18848.0	12690.6	13519.5	17345.5	16590.1
57.5°	15498.9	23970.0	26507.8	20947.3	14028.4	16220.5	20251.3	17732.7
60°	17852.7	26931.9	29978.5	23824.4	16572.6	19059.2	21292.9	17515.1
62.5°	20857.7	29655.3	32501.9	26643.8	19128.0	19593.6	19758.4	15838.1
65°	21441.8	30344.9	32644.3	27397.5	18798.4	16620.6	16130.9	12730.7
67.5°	19892.9	29098.4	30653.8	25994.2	16628.6	12844.3	12105.0	9236.0
70°	18155.1	26722.3	27184.6	23608.4	14625.2	9447.2	8175.1	5926.9
72.5°	16374.2	23552.3	22595.5	20502.6	12853.9	6879.0	5896.5	4213.2
75°	14258.8	19384.0	17798.3	17035.0	10642.5	5398.9	4265.9	2907.4
77.5°	11418.6	13644.4	13220.3	13204.3	7997.5	3944.3	2846.6	1822.6
80°	8055.1	8855.2	8639.1	9944.9	5365.3	2861.1	1713.7	1014.4
82.5°	3899.5	4896.4	5026.0	5922.1	2609.9	1683.4	395.2	220.8
85°	1526.5	2361.8	1992.2	2248.2	732.9	468.8	9.6	0.0
87.5°	171.2	273.6	251.2	198.4	89.6	19.2	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)