

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: P969989

Luminaire Tested: **NAV-SB6A-830-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969989
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-830-U-SLR-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 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: 19120.4 lumens
Efficiency: N/A
Efficacy: 111.9 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

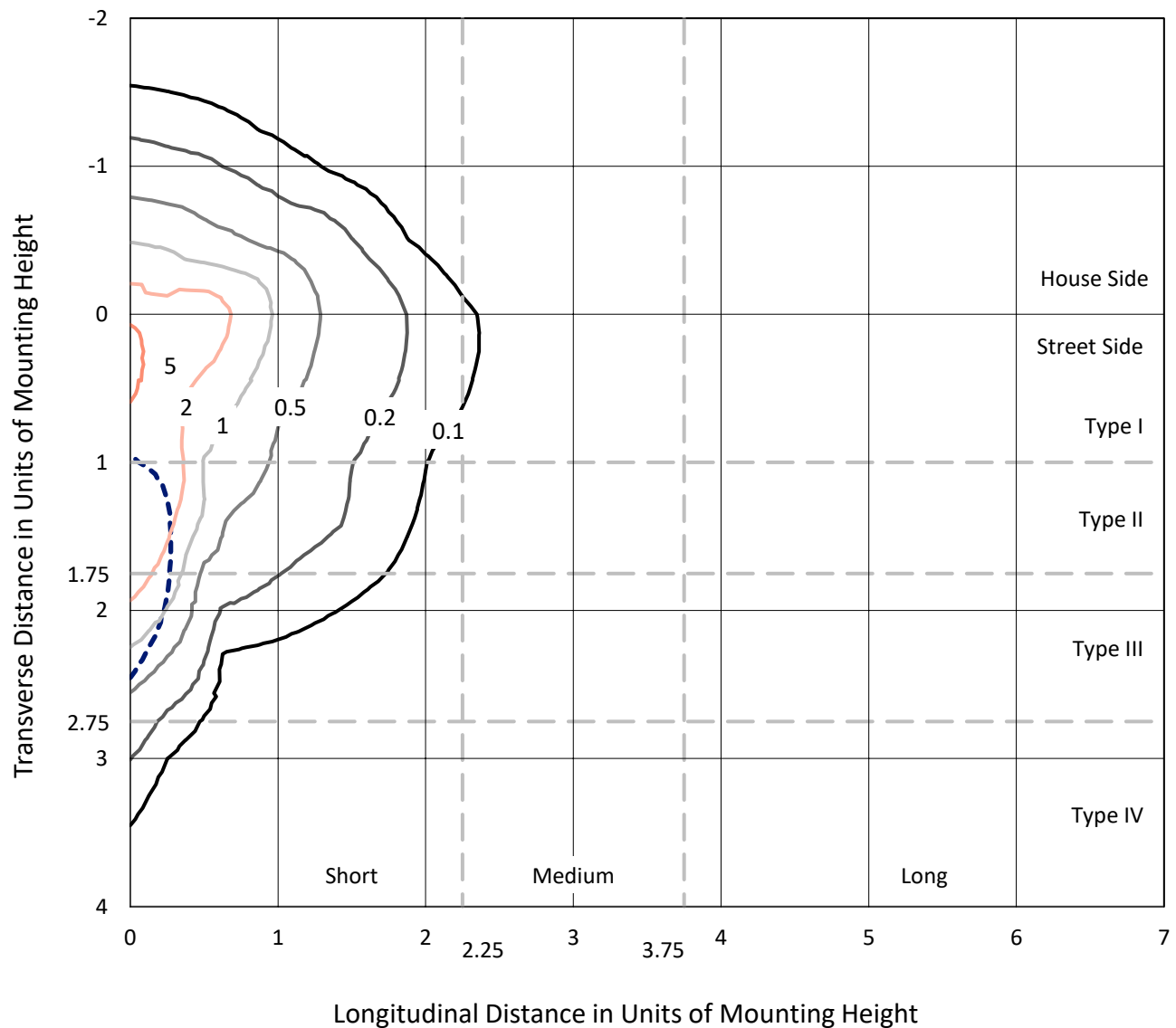


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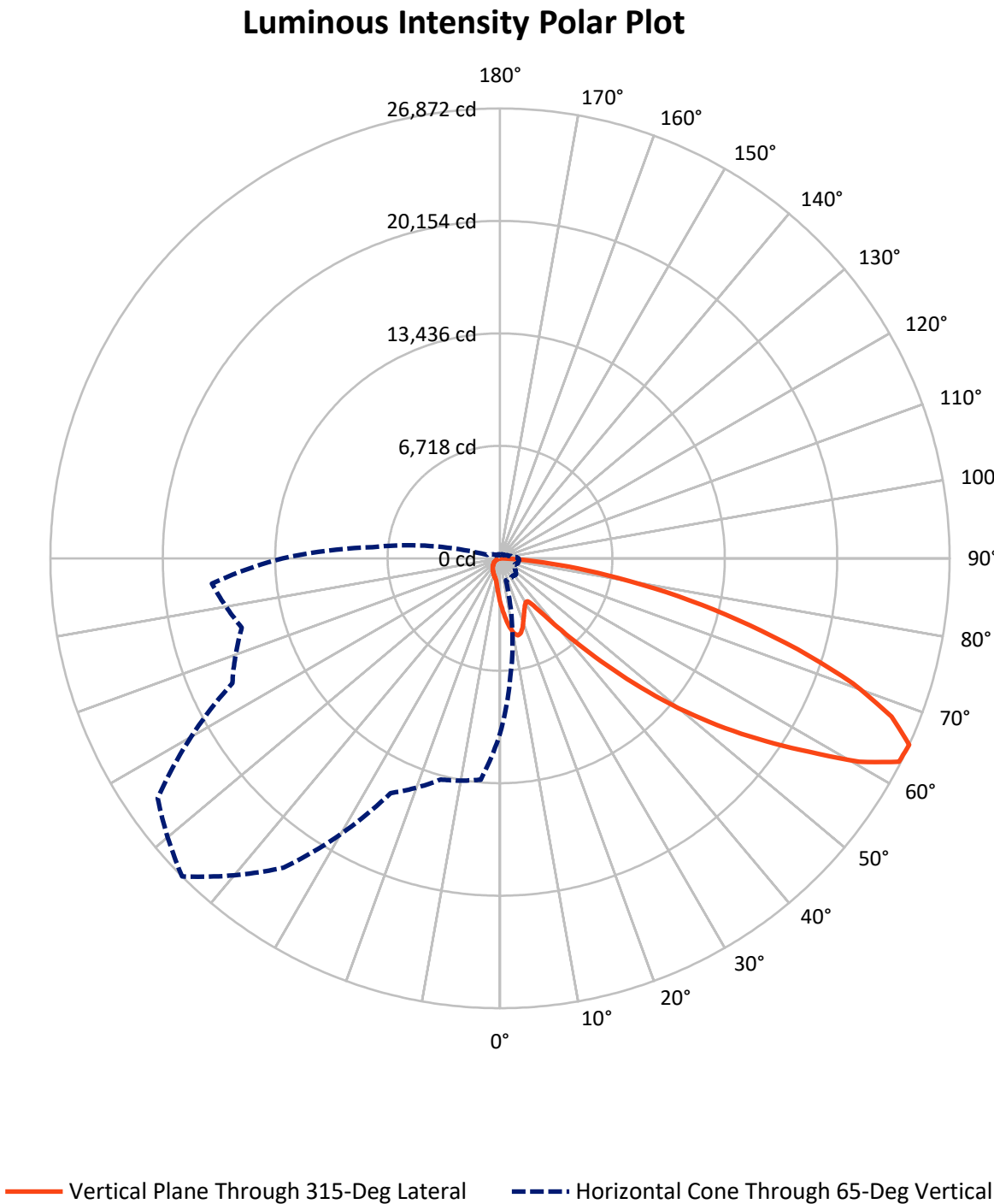
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
Type IV - Short - N/A

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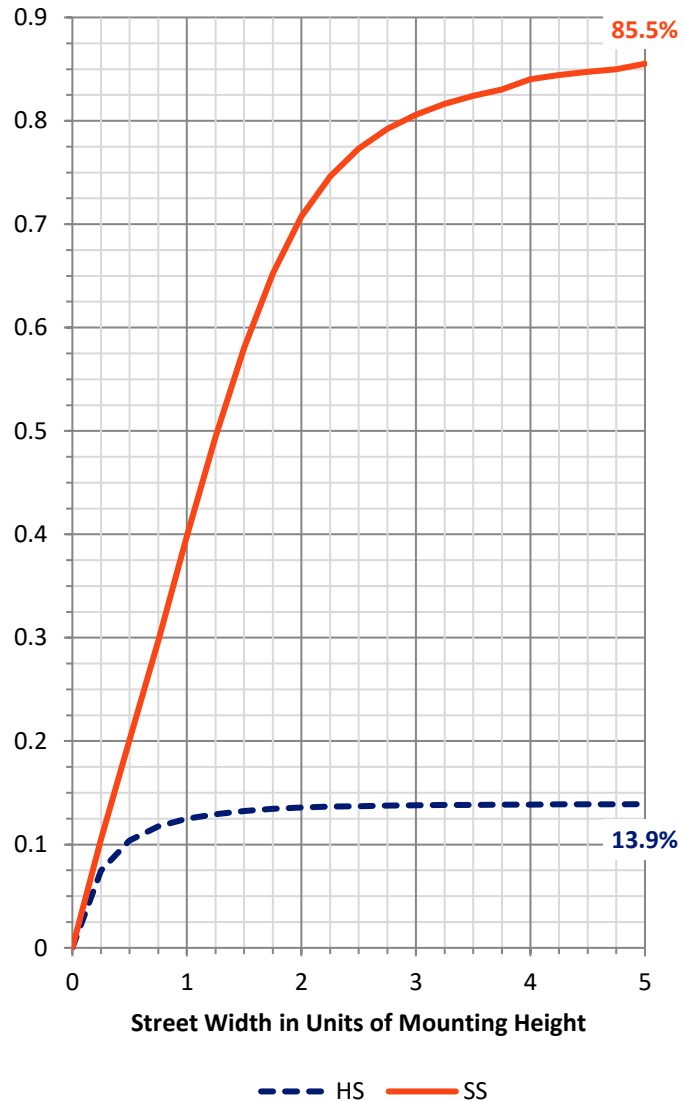
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2677.7	0.0	2677.7
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	16442.7	0.0	16442.7
	% Fixture	86.0	0.0	86.0
Total	Lumens	19120.4	0.0	19120.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	260.7	1.4
10°-20°	781.4	4.1
20°-30°	1151.1	6.0
30°-40°	1478.9	7.7
40°-50°	2391.8	12.5
50°-60°	4194.3	21.9
60°-70°	5248.2	27.4
70°-80°	3066.8	16.0
80°-90°	547.2	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°	19120.4	100.0
0°-180°	19120.4	100.0

Coefficient of Utilization



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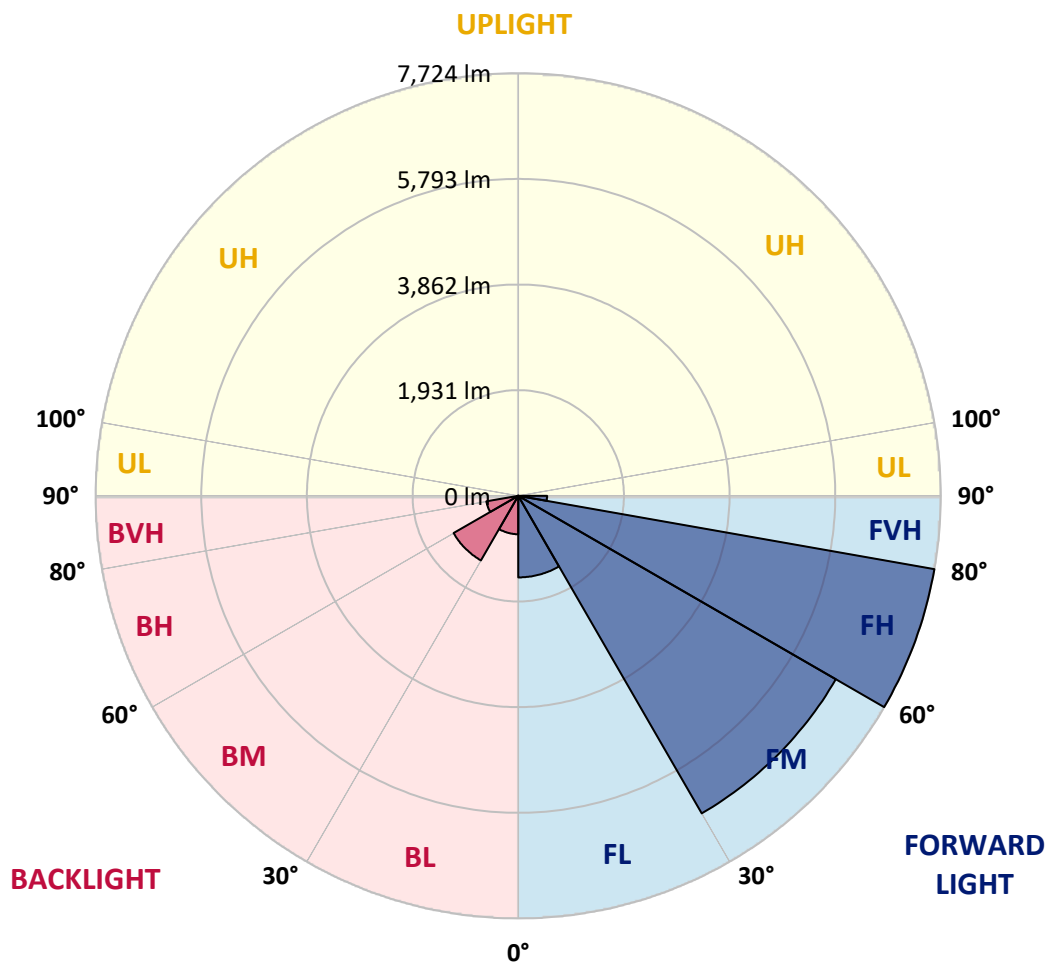
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1491.3	7.8			
FM	(30°-60°)	6701.5	35.0			
FH	(60°-80°)	7723.8	40.4			G4/12000
FVH	(80°-90°)	526.1	2.8			G4/750
BL	(0°-30°)	701.9	3.7	B2/1000		
BM	(30°-60°)	1363.5	7.1	B2/2500		
BH	(60°-80°)	591.2	3.1	B2/1000		G2/1000
BVH	(80°-90°)	21.0	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2647.6	2647.6	2647.6	2647.6	2647.6	2647.6	2647.6	2647.6	2647.6	2647.6	2647.6
2.5°	2991.4	2940.0	2909.7	2834.6	2759.5	2698.9	2617.2	2563.2	2498.7	2436.8	2381.5
5°	3333.8	3250.8	3150.7	3013.7	2888.6	2760.8	2637.0	2514.5	2385.5	2266.9	2194.4
7.5°	3623.6	3503.8	3327.3	3145.4	2986.0	2832.0	2687.0	2525.1	2368.3	2182.6	2083.8
10°	3844.9	3692.0	3460.3	3221.9	3038.7	2883.3	2742.4	2605.4	2447.4	2223.4	2099.6
12.5°	3979.3	3815.9	3540.7	3261.3	3051.9	2878.1	2768.7	2708.2	2646.2	2423.6	2278.8
15°	4078.1	3901.6	3597.2	3289.0	3021.6	2808.3	2727.9	2788.5	2859.6	2717.4	2550.1
17.5°	4180.8	3995.0	3671.0	3300.9	2940.0	2672.6	2638.4	2795.1	2959.7	2953.1	2787.2
20°	4278.2	4093.8	3735.5	3293.0	2808.3	2508.0	2538.2	2738.5	2929.4	3009.8	2920.2
22.5°	4390.2	4195.2	3797.4	3262.7	2637.0	2353.8	2448.6	2648.9	2816.2	2911.0	2883.3
25°	4527.2	4323.0	3884.4	3217.9	2452.6	2226.1	2357.8	2544.8	2680.5	2746.4	2745.1
27.5°	4674.7	4475.9	4000.3	3194.2	2303.8	2135.2	2255.0	2421.0	2542.2	2588.3	2588.3
30°	4857.8	4653.6	4137.3	3167.9	2206.3	2082.5	2148.3	2277.4	2395.9	2442.1	2442.1
32.5°	5058.1	4851.2	4269.0	3104.6	2147.1	2042.9	2044.3	2126.0	2234.0	2289.2	2297.2
35°	5308.3	5088.3	4410.0	2966.4	2099.6	1996.9	1942.9	1982.4	2071.9	2137.8	2155.0
37.5°	5665.3	5399.2	4582.5	2768.7	2029.8	1925.8	1836.2	1845.4	1913.9	1986.3	2012.7
40°	6157.9	5816.8	4785.3	2563.2	1929.7	1825.6	1718.9	1715.0	1765.0	1836.2	1865.2
42.5°	6824.3	6368.6	5029.1	2367.0	1833.5	1704.5	1595.1	1588.5	1628.0	1689.9	1720.3
45°	7704.2	7074.7	5328.1	2198.4	1758.5	1585.9	1477.8	1475.3	1508.2	1562.2	1593.8
47.5°	8830.5	8056.0	5627.0	2083.8	1718.9	1492.4	1381.7	1387.0	1415.9	1464.7	1487.1
50°	10288.5	9335.0	5718.0	2025.8	1718.9	1442.3	1296.1	1322.5	1346.1	1383.0	1396.3
52.5°	12036.5	10562.5	5417.6	1973.1	1729.5	1448.9	1223.6	1280.3	1297.4	1329.0	1334.3
55°	13656.7	11164.5	4657.6	1900.7	1732.1	1489.7	1161.7	1246.1	1277.7	1289.6	1288.2
57.5°	14597.1	10957.8	3765.8	1778.2	1721.6	1517.4	1122.3	1204.0	1264.5	1272.4	1260.5
60°	14418.0	10232.0	2772.7	1684.7	1643.9	1506.9	1110.4	1139.4	1235.5	1247.4	1231.5
62.5°	13037.6	9014.9	1924.4	1612.2	1472.6	1460.7	1106.5	1037.9	1172.3	1201.3	1178.9
65°	10479.6	7097.0	1359.4	1388.4	1290.9	1360.7	1085.4	932.5	1095.9	1135.4	1101.2
67.5°	7602.8	4802.4	981.3	1124.8	1169.6	1198.6	1037.9	856.2	1009.0	1061.7	1016.9
70°	4878.9	2593.6	688.9	742.9	985.2	1018.2	956.3	787.7	920.8	981.3	932.5
72.5°	3468.2	1531.9	495.3	520.3	791.6	848.3	841.7	711.2	817.9	891.7	833.7
75°	2393.4	844.3	334.6	371.5	574.3	688.9	649.3	611.2	692.8	767.9	711.2
77.5°	1500.3	378.0	200.2	258.2	376.7	541.4	445.3	472.8	540.1	609.9	550.6
80°	835.1	146.2	111.9	171.3	205.5	393.8	246.3	304.3	397.8	447.8	400.5
82.5°	181.7	18.4	50.0	73.8	80.4	229.2	130.4	176.5	250.3	246.3	213.4
85°	0.0	0.0	9.2	10.6	5.2	98.8	47.5	57.9	81.7	76.4	57.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	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

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	2647.6	2647.6	2647.6	2647.6	2647.6	2647.6	2647.6	2647.6	2647.6	2647.6	2647.6
2.5°	2370.9	2306.5	2259.0	2235.3	2215.5	2234.0	2244.5	2244.5	2289.2	2315.6	2326.1
5°	2148.3	2032.5	1944.2	1884.9	1849.3	1861.2	1874.3	1888.9	1945.4	1983.7	2008.7
7.5°	1994.2	1816.4	1682.0	1599.1	1555.6	1562.2	1571.4	1583.2	1638.6	1676.8	1709.7
10°	1965.2	1709.7	1520.1	1410.7	1358.0	1348.8	1343.6	1339.6	1372.5	1401.5	1427.8
12.5°	2083.8	1715.0	1450.3	1317.2	1252.7	1225.0	1193.4	1168.4	1173.6	1192.1	1225.0
15°	2295.9	1782.2	1427.8	1268.4	1188.1	1142.1	1105.2	1074.8	1068.3	1074.8	1080.1
17.5°	2538.2	1873.1	1425.2	1226.3	1126.2	1078.8	1048.5	1020.8	1011.6	1012.9	1019.5
20°	2698.9	1945.4	1417.3	1178.9	1066.9	1024.8	998.5	970.8	961.6	964.2	965.6
22.5°	2714.7	1983.7	1405.5	1126.2	1007.7	972.1	945.8	920.8	919.4	919.4	927.3
25°	2629.1	1983.7	1380.4	1078.8	951.0	919.4	895.6	865.4	870.6	873.3	883.9
27.5°	2496.1	1936.2	1333.0	1040.6	902.3	869.3	845.6	817.9	824.6	828.5	840.4
30°	2364.4	1875.6	1276.3	997.1	856.2	817.9	800.8	777.2	779.8	785.0	798.2
32.5°	2241.9	1811.2	1209.2	961.6	810.1	771.8	758.7	732.4	736.4	741.6	756.0
35°	2120.7	1740.0	1130.2	919.4	767.9	729.7	719.1	688.9	691.6	699.5	715.2
37.5°	1990.2	1664.9	1065.6	877.3	727.1	687.6	677.0	645.4	648.1	657.2	675.7
40°	1853.3	1591.2	1002.3	832.5	683.6	644.1	634.9	600.6	603.3	613.8	633.6
42.5°	1715.0	1510.8	953.7	774.5	638.9	596.7	587.4	555.9	559.9	571.6	591.4
45°	1587.2	1414.7	922.0	710.0	596.7	549.3	540.1	511.1	519.0	532.2	551.9
47.5°	1477.8	1315.9	908.9	656.0	551.9	500.5	492.6	468.9	482.1	496.6	512.4
50°	1384.4	1221.1	891.7	600.6	509.7	458.4	450.5	434.7	451.8	466.3	480.7
52.5°	1317.2	1113.0	854.8	550.6	472.8	422.8	420.1	412.3	428.0	441.3	454.4
55°	1259.2	1001.0	795.6	507.2	439.9	392.5	395.1	391.2	404.4	414.9	426.8
57.5°	1206.5	903.6	720.5	472.8	404.4	366.1	374.1	368.8	375.4	382.0	396.5
60°	1143.3	804.8	630.9	434.7	362.2	339.8	349.0	334.6	333.2	335.9	339.8
62.5°	1049.8	671.8	537.4	387.2	325.3	310.9	314.8	287.1	266.1	266.1	270.0
65°	919.4	540.1	450.5	334.6	283.2	271.3	268.8	229.2	200.2	197.6	209.4
67.5°	767.9	443.9	374.1	281.9	235.7	227.9	230.5	201.5	172.5	169.9	183.1
70°	625.7	367.5	301.7	225.2	181.7	189.6	201.5	172.5	144.9	140.9	152.8
72.5°	508.4	292.4	235.7	172.5	134.4	156.7	171.3	140.9	114.6	111.9	122.5
75°	392.5	214.7	168.6	117.3	97.5	121.2	134.4	102.7	81.7	77.7	86.9
77.5°	262.1	133.0	94.8	73.8	57.9	83.0	89.6	54.0	47.5	46.1	52.7
80°	159.4	61.9	40.8	35.6	19.8	30.3	35.6	22.3	25.0	26.3	31.6
82.5°	80.4	17.1	6.6	1.3	0.0	0.0	10.6	5.2	10.6	13.2	19.8
85°	6.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	6.6	11.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	2647.6	2647.6	2647.6	2647.6	2647.6	2647.6	2647.6	2647.6	2647.6	2647.6	2647.6
2.5°	2399.9	2455.3	2508.0	2592.2	2679.1	2764.8	2851.8	2936.0	2966.4	2988.7	3038.7
5°	2123.3	2227.3	2348.6	2515.9	2694.9	2879.4	3066.4	3237.7	3315.4	3368.0	3486.6
7.5°	1837.5	1973.1	2147.1	2398.6	2679.1	2972.9	3266.7	3536.7	3661.8	3763.2	3943.7
10°	1554.3	1701.8	1921.8	2209.0	2588.3	3009.8	3415.5	3787.0	3948.9	4076.7	4321.7
12.5°	1305.3	1443.6	1674.1	1991.6	2446.1	2980.8	3501.1	3947.6	4138.6	4282.1	4550.9
15°	1130.2	1227.6	1431.8	1774.3	2277.4	2887.3	3506.3	4024.0	4233.5	4383.6	4616.8
17.5°	1032.7	1065.6	1198.6	1553.0	2090.4	2764.8	3457.6	4050.4	4274.2	4414.0	4575.9
20°	980.0	985.2	1022.1	1265.8	1850.6	2650.2	3411.5	4076.7	4312.5	4429.7	4478.4
22.5°	937.9	937.9	947.1	1035.4	1541.1	2513.2	3397.1	4122.9	4365.2	4437.6	4337.5
25°	899.6	899.6	902.3	926.0	1221.1	2303.8	3387.8	4193.9	4437.6	4457.4	4182.1
27.5°	860.1	861.4	861.4	874.6	983.9	2019.2	3348.3	4286.1	4524.6	4483.8	4033.3
30°	820.6	823.3	823.3	832.5	870.6	1686.0	3270.6	4396.7	4637.8	4518.0	3885.7
32.5°	781.0	783.7	783.7	791.6	819.3	1346.1	3173.1	4498.2	4752.4	4532.4	3748.7
35°	740.3	744.3	741.6	752.1	781.0	1070.9	3049.3	4599.6	4876.2	4578.6	3681.6
37.5°	699.5	702.0	700.8	711.2	744.3	924.7	2905.8	4676.0	5044.8	4681.3	3761.9
40°	658.6	657.2	657.2	669.1	704.7	882.5	2725.3	4797.2	5287.3	4861.8	4112.3
42.5°	616.4	616.4	613.8	627.0	670.5	851.0	2552.8	5014.5	5640.3	5148.9	4734.0
45°	578.2	577.0	571.6	583.5	637.6	795.6	2492.1	5420.2	6161.8	5613.9	5486.1
47.5°	541.4	540.1	526.8	537.4	598.0	745.5	2718.7	6084.1	6884.9	6297.5	6190.8
50°	508.4	509.7	484.7	493.9	558.5	707.4	3210.0	6945.6	7845.2	7218.3	6858.6
52.5°	478.2	478.2	445.3	450.5	509.7	673.1	3677.6	7879.5	9112.4	8502.5	7637.1
55°	447.8	445.3	408.4	410.9	461.0	624.3	3747.4	8790.9	10840.5	10434.8	8701.3
57.5°	413.6	408.4	374.1	374.1	416.3	588.8	3248.2	9491.7	12984.9	13274.7	10235.9
60°	371.5	367.5	345.1	338.6	380.7	620.4	2291.9	9573.4	14367.9	17051.1	13174.5
62.5°	317.4	322.7	310.9	301.7	346.4	644.1	1358.0	8916.1	14033.4	18252.4	16694.1
65°	250.3	271.3	268.8	262.1	380.7	542.6	802.2	7654.2	13007.2	17282.8	15976.3
67.5°	213.4	227.9	224.0	224.0	399.1	412.3	504.5	5980.1	11595.2	16133.0	14270.5
70°	181.7	196.3	181.7	181.7	301.7	250.3	349.0	4175.5	10071.2	14860.6	13150.9
72.5°	150.2	164.6	148.8	138.3	241.1	187.1	255.5	2609.3	8625.0	13535.4	12384.3
75°	114.6	131.7	119.8	106.7	159.4	139.6	193.6	1516.1	7145.8	11580.8	11292.3
77.5°	72.5	94.8	89.6	75.0	117.3	101.5	139.6	902.3	5513.8	9049.1	9713.0
80°	44.8	48.7	50.0	47.5	67.1	68.5	94.8	513.7	3773.7	6306.7	7588.4
82.5°	29.0	29.0	22.3	25.0	32.9	39.6	54.0	193.6	2218.2	3839.6	5281.9
85°	21.1	18.4	11.9	11.9	15.8	19.8	21.1	59.2	899.6	1516.1	2065.4
87.5°	10.6	9.2	4.0	5.2	7.9	6.6	5.2	2.7	226.5	484.7	339.8
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: P969989

CATALOG NUMBER: NAV-SB6A-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	2647.6	2647.6	2647.6	2647.6	2647.6	2647.6	2647.6	2647.6
2.5°	3065.1	3106.0	3108.6	3108.6	3073.1	3071.7	2999.3	2991.4
5°	3609.1	3635.5	3642.0	3628.9	3557.8	3505.1	3364.2	3333.8
7.5°	4107.0	4159.7	4159.7	4128.1	4012.2	3904.1	3699.9	3623.6
10°	4504.8	4565.3	4552.2	4487.7	4341.5	4192.7	3945.0	3844.9
12.5°	4698.4	4760.3	4726.1	4652.4	4510.1	4353.3	4092.5	3979.3
15°	4694.5	4677.4	4641.8	4632.6	4564.1	4445.5	4201.9	4078.1
17.5°	4527.2	4382.3	4354.6	4446.9	4533.8	4504.8	4296.7	4180.8
20°	4262.5	4009.5	3984.5	4161.0	4408.6	4535.1	4385.0	4278.2
22.5°	3983.2	3710.5	3652.6	3847.5	4220.3	4544.3	4496.9	4390.2
25°	3718.4	3444.4	3386.5	3568.2	4010.8	4528.6	4618.0	4527.2
27.5°	3497.1	3232.4	3178.4	3360.2	3809.3	4483.8	4739.3	4674.7
30°	3325.9	3080.9	3041.4	3216.6	3635.5	4428.4	4893.3	4857.8
32.5°	3225.8	3046.7	3061.2	3204.8	3541.9	4367.8	5040.8	5058.1
35°	3324.6	3332.5	3459.0	3518.2	3628.9	4358.6	5241.1	5308.3
37.5°	3815.9	4089.9	4352.0	4303.3	4054.3	4465.3	5540.1	5665.3
40°	4652.4	5214.8	5640.3	5454.5	4827.5	4792.0	5970.8	6157.9
42.5°	5674.5	6628.2	7328.9	6831.0	5824.7	5363.6	6585.9	6824.3
45°	6753.2	8370.8	9474.6	8439.2	6887.6	6164.5	7517.2	7704.2
47.5°	7889.9	10488.8	11916.6	10222.7	7872.8	7076.0	8787.0	8830.5
50°	9133.4	12811.0	14406.2	12004.9	8823.9	8120.5	10338.7	10288.5
52.5°	10317.5	15199.1	16842.9	13795.0	9659.0	9416.6	12139.3	12036.5
55°	11447.7	17585.8	19294.2	15515.2	10446.7	11128.9	14278.4	13656.7
57.5°	12758.3	19731.6	21820.6	17243.4	11547.9	13352.4	16670.4	14597.1
60°	14695.9	22169.6	24677.6	19611.6	13642.1	15689.1	17527.9	14418.0
62.5°	17169.6	24411.5	26754.9	21932.5	15745.7	16129.0	16264.7	13037.6
65°	17650.4	24979.2	26872.0	22553.0	15474.4	13681.7	13278.6	10479.6
67.5°	16375.3	23953.1	25233.4	21397.8	13688.3	10573.1	9964.5	7602.8
70°	14944.9	21997.1	22377.8	19433.9	12039.1	7776.7	6729.5	4878.9
72.5°	13478.9	19387.8	18600.1	16877.1	10581.0	5662.6	4853.9	3468.2
75°	11737.5	15956.5	14651.1	14022.8	8760.7	4444.2	3511.6	2393.4
77.5°	9399.5	11231.7	10882.6	10869.5	6583.4	3246.9	2343.3	1500.3
80°	6630.7	7289.4	7111.6	8186.4	4416.5	2355.1	1410.7	835.1
82.5°	3210.0	4030.6	4137.3	4874.9	2148.3	1385.7	325.3	181.7
85°	1256.6	1944.2	1639.9	1850.6	603.3	385.9	7.9	0.0
87.5°	140.9	225.2	206.8	163.3	73.8	15.8	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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