

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: P970886

Luminaire Tested: **NAV-SB6C-735-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970886
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-SB6C-735-U-SLL-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35526.5 lumens
Efficiency: N/A
Efficacy: 118.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 300.9
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



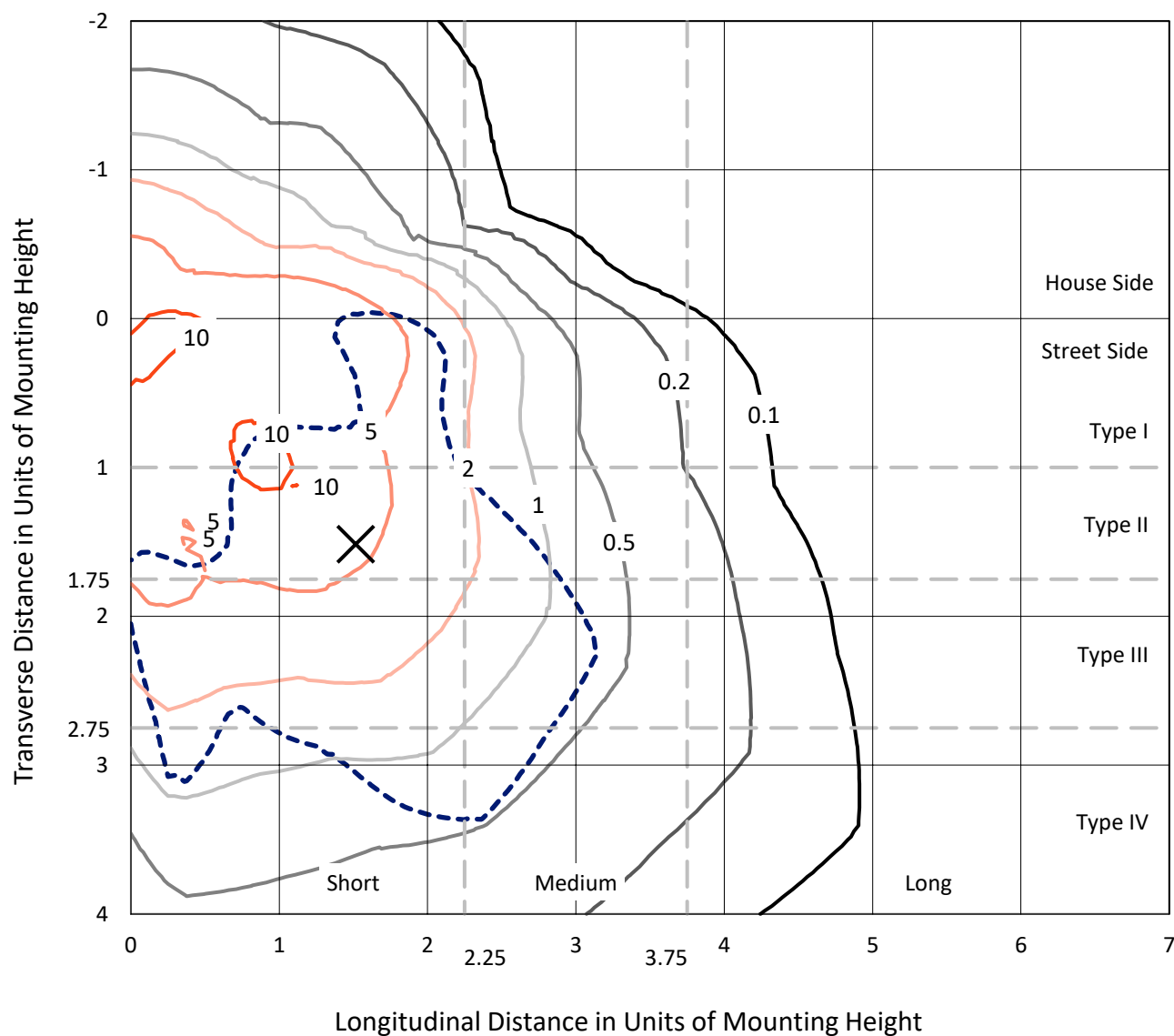
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

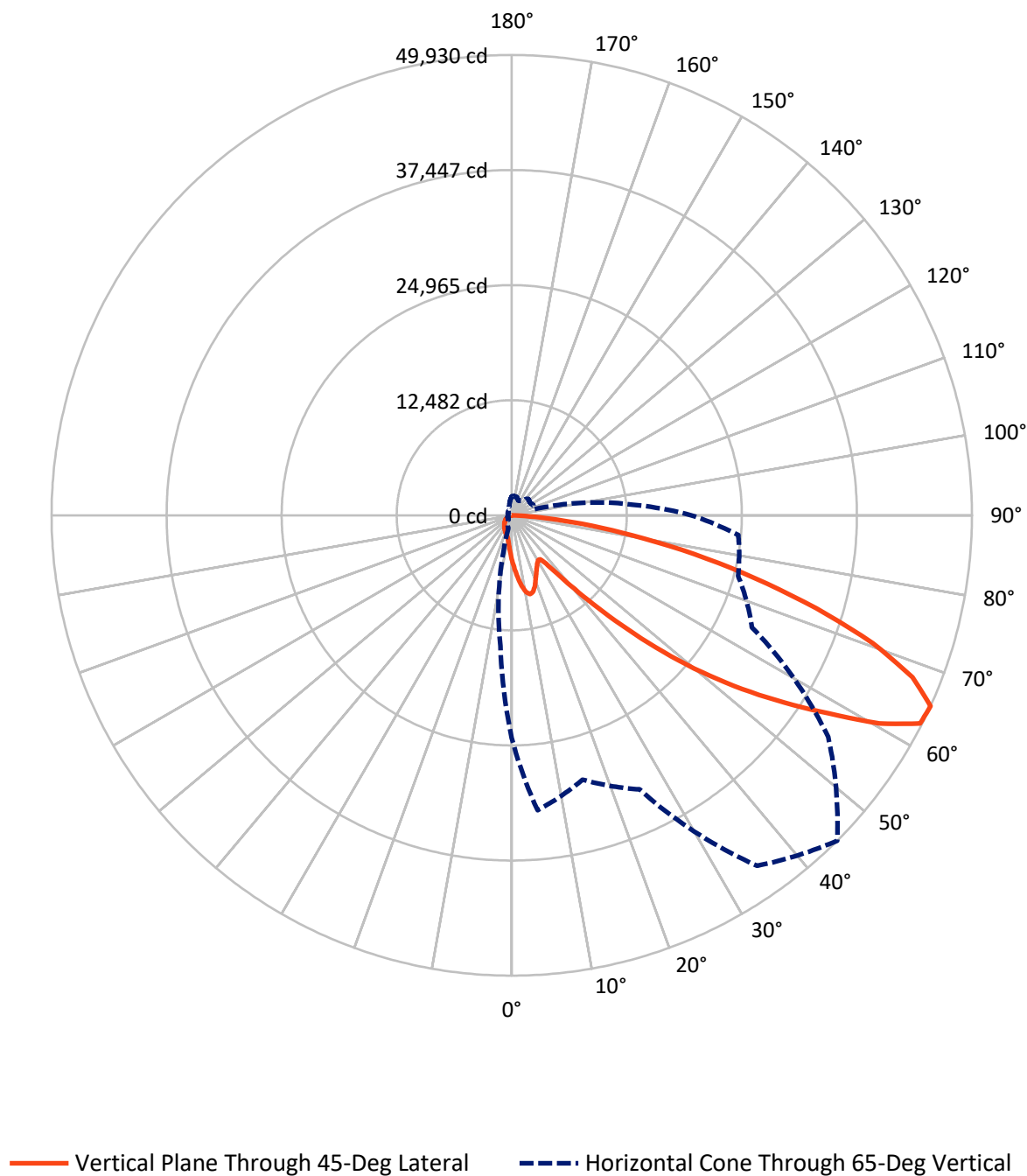


Based on 25 foot mounting height. Maximum calculated value = 12.9 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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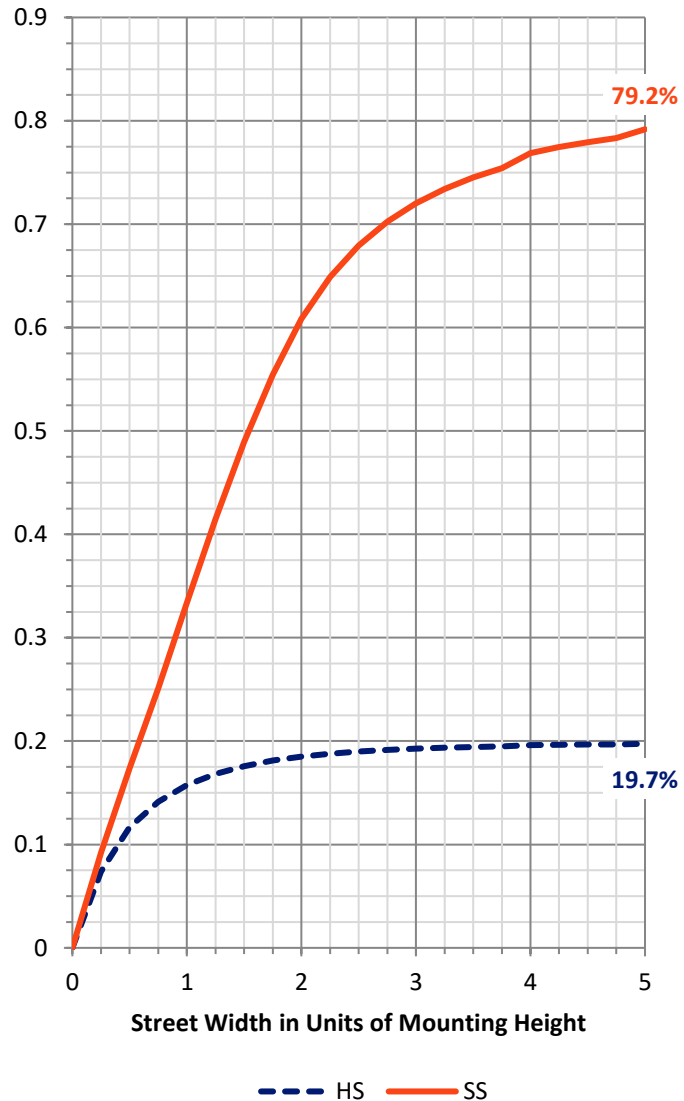
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7061.6	0.0	7061.6
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	28464.9	0.0	28464.9
	% Fixture	80.1	0.0	80.1
Total	Lumens	35526.5	0.0	35526.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	484.3	1.4
10°-20°	1451.8	4.1
20°-30°	2138.9	6.0
30°-40°	2747.9	7.7
40°-50°	4444.1	12.5
50°-60°	7793.2	21.9
60°-70°	9751.4	27.4
70°-80°	5698.3	16.0
80°-90°	1016.7	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°	35526.5	100.0
0°-180°	35526.5	100.0

Coefficient of Utilization



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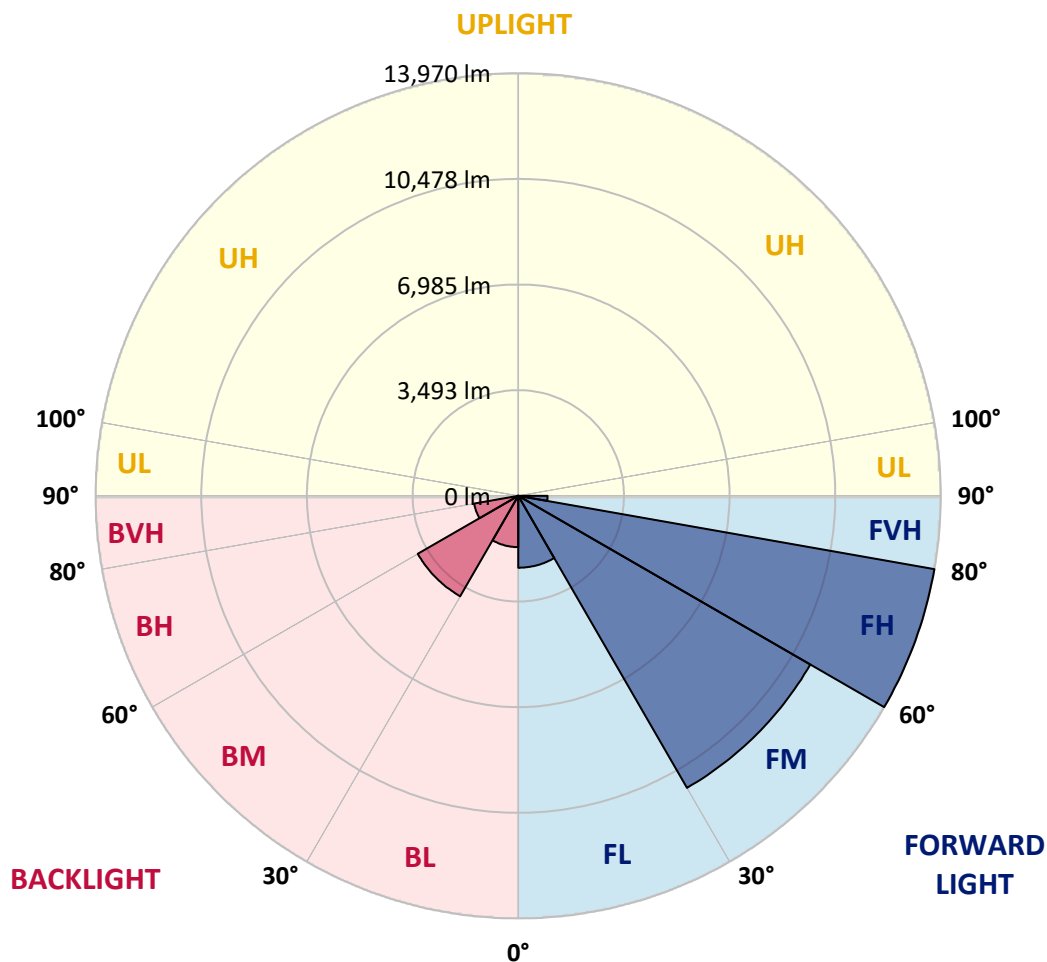
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2377.1	6.7			
FM	(30°-60°)	11148.6	31.4			
FH	(60°-80°)	13970.1	39.3			G5
FVH	(80°-90°)	969.0	2.7			G5
BL	(0°-30°)	1697.9	4.8	B3/2500		
BM	(30°-60°)	3836.5	10.8	B3/5000		
BH	(60°-80°)	1479.5	4.2	B3/2500		G3/2500
BVH	(80°-90°)	47.6	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4919.3	4919.3	4919.3	4919.3	4919.3	4919.3	4919.3	4919.3	4919.3	4919.3	4919.3
2.5°	5511.5	5553.1	5646.2	5695.1	5771.0	5775.9	5775.9	5709.8	5707.3	5572.7	5558.1
5°	6160.1	6258.0	6478.3	6705.9	6754.9	6767.0	6742.6	6610.4	6512.5	6250.7	6194.4
7.5°	6803.7	6992.2	7327.5	7631.0	7728.9	7728.9	7670.2	7454.8	7254.1	6874.8	6732.8
10°	7337.4	7574.7	8030.0	8370.2	8482.7	8458.2	8338.3	8066.6	7790.1	7330.0	7143.9
12.5°	7689.8	7956.6	8455.7	8729.9	8844.9	8781.3	8644.2	8379.9	8088.7	7604.1	7393.6
15°	7866.0	8145.0	8578.1	8722.5	8690.8	8624.7	8607.5	8480.2	8260.0	7807.2	7577.2
17.5°	7941.8	8201.2	8502.3	8411.8	8142.5	8091.1	8262.4	8424.0	8370.2	7983.4	7768.1
20°	8012.8	8230.6	8321.2	7919.8	7449.9	7403.4	7731.4	8191.5	8426.4	8147.4	7949.2
22.5°	8110.7	8245.3	8059.3	7400.9	6894.4	6786.6	7148.9	7841.5	8443.5	8355.4	8157.2
25°	8245.3	8282.0	7770.5	6909.0	6400.0	6292.3	6630.0	7452.4	8414.2	8580.6	8411.8
27.5°	8406.8	8331.0	7494.0	6497.9	6005.9	5905.5	6243.4	7077.9	8331.0	8805.8	8685.8
30°	8617.3	8394.6	7219.9	6179.7	5724.5	5651.0	5976.6	6754.9	8228.2	9092.1	9026.0
32.5°	8830.3	8421.5	6965.3	5993.7	5660.9	5687.7	5954.5	6581.1	8115.6	9366.2	9398.0
35°	9060.3	8507.2	6840.5	6177.3	6191.9	6426.9	6537.0	6742.6	8098.4	9738.2	9863.1
37.5°	9373.5	8698.0	6989.8	7090.1	7599.1	8086.2	7995.7	7533.1	8296.7	10293.8	10526.2
40°	9823.9	9033.3	7640.8	8644.2	9689.3	10479.8	10134.7	8969.8	8903.7	11094.1	11441.7
42.5°	10479.8	9566.9	8795.9	10543.5	12315.4	13617.3	12692.3	10822.5	9965.9	12237.1	12680.0
45°	11448.9	10430.8	10193.4	12547.8	15553.2	17604.2	15680.6	12797.4	11453.9	13967.4	14314.8
47.5°	12792.6	11701.1	11502.8	14660.0	19488.7	22141.6	18994.3	14628.2	13147.5	16326.6	16407.4
50°	14576.7	13411.8	12743.6	16970.3	23803.5	26767.3	22305.6	16395.2	15088.2	19209.7	19116.7
52.5°	16931.2	15798.0	14190.1	19170.5	28240.6	31295.0	25631.7	17946.8	17496.5	22555.3	22364.4
55°	20142.2	19388.4	16167.5	21270.4	32675.3	35849.6	28828.0	19410.3	20678.1	26529.9	25374.7
57.5°	24126.6	24665.0	19018.8	23705.6	36662.1	40543.7	32038.9	21456.4	24809.3	30974.4	27122.1
60°	26696.3	31681.6	24478.9	27305.7	41192.3	45852.1	36439.4	25347.7	29151.0	32567.6	26789.3
62.5°	26074.7	33913.7	31018.4	31901.9	45357.8	49711.7	40751.7	29256.3	29968.4	30220.6	24224.4
65°	24168.2	32112.4	29684.6	32795.2	46412.6	49929.5	41904.5	28752.1	25421.2	24672.3	19471.5
67.5°	21544.5	29975.8	26515.2	30426.1	44506.0	46884.9	39758.1	25433.4	19645.4	18514.6	14126.4
70°	18712.8	27611.7	24434.9	27768.3	40871.7	41578.9	36109.0	22369.3	14449.5	12503.8	9065.2
72.5°	16025.6	25149.5	23010.5	25044.3	36023.3	34559.8	31358.6	19660.0	10521.4	9018.7	6444.0
75°	13277.1	21517.6	20981.6	21808.8	29647.8	27222.5	26055.1	16277.7	8257.5	6524.7	4447.0
77.5°	10244.9	16813.7	18047.2	17464.7	20869.0	20220.5	20196.0	12232.1	6032.8	4353.9	2787.6
80°	7011.8	11718.2	14099.5	12320.2	13543.9	13213.6	15210.6	8206.2	4375.9	2621.1	1551.6
82.5°	4121.4	7134.2	9814.1	5964.4	7489.1	7687.3	9057.8	3991.8	2574.7	604.5	337.7
85°	1671.6	2817.0	3837.5	2334.8	3612.4	3047.0	3438.6	1120.9	717.1	14.7	0.0
87.5°	421.0	900.7	631.4	261.9	418.5	384.3	303.5	137.0	29.4	0.0	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°	4919.3	4919.3	4919.3	4919.3	4919.3	4919.3	4919.3	4919.3	4919.3	4919.3	4919.3
2.5°	5462.6	5406.4	5266.9	5127.4	5014.7	4863.0	4762.7	4642.7	4527.7	4424.9	4405.3
5°	6040.2	5854.2	5599.7	5367.2	5129.7	4899.7	4672.1	4432.2	4212.0	4077.3	3991.8
7.5°	6510.1	6182.2	5844.4	5548.2	5261.9	4992.7	4691.6	4400.4	4055.3	3871.8	3705.4
10°	6860.1	6429.3	5986.3	5646.2	5357.4	5095.5	4841.0	4547.3	4131.3	3901.2	3651.6
12.5°	7090.1	6578.7	6059.8	5670.6	5347.6	5144.5	5031.8	4916.8	4503.2	4234.0	3871.8
15°	7249.2	6683.8	6111.2	5614.3	5217.9	5068.6	5181.2	5313.3	5048.9	4738.2	4265.8
17.5°	7422.9	6821.0	6133.2	5462.6	4965.8	4902.2	5193.4	5499.3	5487.1	5178.7	4716.1
20°	7606.5	6940.9	6118.5	5217.9	4659.9	4716.1	5088.2	5443.1	5592.3	5425.9	5014.7
22.5°	7795.0	7055.9	6062.3	4899.7	4373.5	4549.8	4921.7	5232.5	5408.7	5357.4	5044.1
25°	8032.4	7217.4	5979.0	4557.0	4136.1	4380.8	4728.4	4980.5	5102.9	5100.4	4885.0
27.5°	8316.2	7432.8	5935.0	4280.5	3967.3	4190.0	4498.3	4723.5	4809.2	4809.2	4637.8
30°	8646.7	7687.3	5886.0	4099.4	3869.4	3991.8	4231.6	4451.8	4537.5	4537.5	4393.0
32.5°	9013.7	7932.1	5768.5	3989.3	3795.9	3798.3	3950.1	4150.8	4253.5	4268.3	4165.5
35°	9454.3	8194.0	5511.5	3901.2	3710.3	3609.9	3683.3	3849.8	3972.2	4004.0	3940.3
37.5°	10031.9	8514.5	5144.5	3771.5	3578.1	3411.7	3428.8	3556.0	3690.7	3739.6	3698.0
40°	10807.7	8891.5	4762.7	3585.4	3392.1	3193.9	3186.5	3279.5	3411.7	3465.5	3443.5
42.5°	11833.2	9344.2	4398.0	3406.8	3166.9	2963.8	2951.6	3025.0	3140.0	3196.4	3186.5
45°	13145.0	9899.8	4084.7	3267.3	2946.7	2746.0	2741.1	2802.2	2902.6	2961.3	2949.1
47.5°	14968.3	10455.3	3871.8	3193.9	2772.9	2567.3	2577.2	2631.0	2721.5	2763.1	2746.0
50°	17344.7	10624.2	3764.1	3193.9	2679.9	2408.2	2457.2	2501.2	2569.8	2594.3	2572.2
52.5°	19625.8	10066.2	3666.2	3213.5	2692.2	2273.7	2378.9	2410.7	2469.4	2479.3	2447.4
55°	20744.2	8654.0	3531.6	3218.3	2768.0	2158.6	2315.3	2374.0	2396.0	2393.6	2339.8
57.5°	20360.0	6997.2	3304.0	3198.7	2819.4	2085.2	2237.0	2349.5	2364.2	2342.1	2241.8
60°	19011.4	5151.8	3130.2	3054.4	2799.8	2063.1	2117.0	2295.7	2317.7	2288.3	2124.3
62.5°	16750.0	3575.6	2995.7	2736.2	2714.2	2055.8	1928.5	2178.2	2232.0	2190.4	1950.6
65°	13186.6	2525.7	2579.5	2398.5	2528.2	2016.7	1732.8	2036.3	2109.7	2046.0	1708.3
67.5°	8923.2	1823.3	2090.1	2173.3	2227.1	1928.5	1590.8	1874.7	1972.6	1889.4	1426.8
70°	4818.9	1280.0	1380.4	1830.6	1891.8	1776.8	1463.6	1710.7	1823.3	1732.8	1162.6
72.5°	2846.3	920.2	966.7	1470.9	1576.1	1563.8	1321.6	1519.9	1656.9	1549.2	944.7
75°	1568.8	621.7	690.1	1067.0	1280.0	1206.5	1135.6	1287.3	1426.8	1321.6	729.3
77.5°	702.4	372.0	479.7	700.0	1005.8	827.2	878.6	1003.5	1133.1	1023.1	487.1
80°	271.6	208.1	318.2	381.8	731.7	457.7	565.4	739.1	832.1	744.0	296.1
82.5°	34.2	93.0	137.0	149.3	425.9	242.3	328.0	465.0	457.7	396.5	149.3
85°	0.0	17.1	19.6	9.8	183.6	88.1	107.7	151.7	142.0	107.7	12.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9	0.0	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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	4919.3	4919.3	4919.3	4919.3	4919.3	4919.3	4919.3	4919.3	4919.3	4919.3	4919.3
2.5°	4285.4	4197.3	4153.2	4116.5	4150.8	4170.4	4170.4	4253.5	4302.5	4322.1	4459.2
5°	3776.3	3612.4	3502.2	3436.1	3458.1	3482.6	3509.6	3614.9	3685.8	3732.3	3945.2
7.5°	3375.0	3125.3	2971.2	2890.4	2902.6	2919.7	2941.7	3044.6	3115.6	3176.8	3414.2
10°	3176.8	2824.3	2621.1	2523.2	2506.1	2496.4	2489.0	2550.2	2604.0	2653.0	2887.9
12.5°	3186.5	2694.6	2447.4	2327.5	2276.1	2217.4	2170.8	2180.7	2214.9	2276.1	2425.4
15°	3311.4	2653.0	2356.9	2207.5	2121.9	2053.4	1997.1	1984.8	1997.1	2006.8	2099.9
17.5°	3480.2	2648.1	2278.6	2092.5	2004.4	1948.1	1896.8	1879.6	1882.1	1894.3	1918.8
20°	3614.9	2633.4	2190.4	1982.4	1904.0	1855.1	1803.7	1786.6	1791.5	1794.0	1820.9
22.5°	3685.8	2611.4	2092.5	1872.3	1806.2	1757.3	1710.7	1708.3	1708.3	1722.9	1742.6
25°	3685.8	2564.9	2004.4	1767.0	1708.3	1664.2	1607.9	1617.8	1622.7	1642.3	1671.6
27.5°	3597.6	2476.8	1933.5	1676.5	1615.3	1571.2	1519.9	1532.1	1539.4	1561.5	1598.2
30°	3485.1	2371.5	1852.7	1590.8	1519.9	1488.0	1444.0	1448.8	1458.7	1483.2	1524.7
32.5°	3365.2	2246.7	1786.6	1505.1	1434.2	1409.7	1360.8	1368.1	1377.9	1404.8	1451.3
35°	3233.1	2099.9	1708.3	1426.8	1355.9	1336.3	1280.0	1284.8	1299.6	1328.9	1375.4
37.5°	3093.6	1980.0	1630.0	1350.9	1277.6	1258.0	1199.2	1204.2	1221.3	1255.5	1299.6
40°	2956.5	1862.4	1546.7	1270.2	1196.8	1179.7	1116.0	1120.9	1140.5	1177.2	1223.7
42.5°	2807.2	1771.9	1439.1	1186.9	1108.6	1091.5	1032.8	1040.2	1062.2	1098.9	1145.3
45°	2628.5	1713.2	1319.2	1108.6	1020.6	1003.5	949.6	964.3	988.7	1025.5	1074.4
47.5°	2444.9	1688.7	1218.8	1025.5	930.0	915.3	871.2	895.7	922.7	952.0	1005.8
50°	2268.7	1656.9	1116.0	947.1	851.7	837.0	807.6	839.5	866.4	893.3	944.7
52.5°	2068.0	1588.3	1023.1	878.6	785.7	780.7	766.1	795.4	819.9	844.4	888.4
55°	1860.1	1478.3	942.3	817.4	729.3	734.2	726.9	751.3	770.9	792.9	832.1
57.5°	1679.0	1338.8	878.6	751.3	680.4	695.1	685.3	697.5	709.7	736.7	768.4
60°	1495.4	1172.3	807.6	673.0	631.4	648.5	621.7	619.2	624.1	631.4	690.1
62.5°	1248.1	998.6	719.6	604.5	577.6	585.0	533.5	494.4	494.4	501.7	589.8
65°	1003.5	837.0	621.7	526.2	504.2	499.3	425.9	372.0	367.2	389.1	465.0
67.5°	824.8	695.1	523.8	438.1	423.4	428.2	374.4	320.6	315.7	340.2	396.5
70°	682.9	560.5	418.5	337.7	352.4	374.4	320.6	269.2	261.9	283.9	337.7
72.5°	543.4	438.1	320.6	249.6	291.2	318.2	261.9	212.9	208.1	227.7	279.0
75°	398.9	313.2	217.8	181.1	225.2	249.6	190.9	151.7	144.4	161.5	212.9
77.5°	247.2	176.2	137.0	107.7	154.2	166.5	100.3	88.1	85.7	97.9	134.6
80°	115.0	75.8	66.1	36.7	56.3	66.1	41.6	46.5	49.0	58.7	83.2
82.5°	31.8	12.2	2.5	0.0	0.0	19.6	9.8	19.6	24.5	36.7	53.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9	12.2	22.0	39.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.8	19.6
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: P970886

CATALOG NUMBER: NAV-SB6C-735-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	4919.3	4919.3	4919.3	4919.3	4919.3	4919.3	4919.3	4919.3
2.5°	4562.0	4659.9	4816.5	4978.0	5137.1	5298.6	5455.3	5511.5
5°	4138.5	4363.7	4674.5	5007.4	5350.0	5697.6	6015.7	6160.1
7.5°	3666.2	3989.3	4456.7	4978.0	5523.8	6069.5	6571.3	6803.7
10°	3162.0	3570.8	4104.3	4809.2	5592.3	6346.1	7036.3	7337.4
12.5°	2682.3	3110.7	3700.5	4544.8	5538.5	6505.2	7334.9	7689.8
15°	2280.9	2660.3	3296.6	4231.6	5364.7	6515.0	7476.9	7866.0
17.5°	1980.0	2227.1	2885.5	3884.0	5137.1	6424.4	7525.8	7941.8
20°	1830.6	1899.2	2352.0	3438.6	4924.2	6338.8	7574.7	8012.8
22.5°	1742.6	1759.7	1923.6	2863.4	4669.7	6311.8	7660.3	8110.7
25°	1671.6	1676.5	1720.6	2268.7	4280.5	6294.7	7792.6	8245.3
27.5°	1600.6	1600.6	1625.0	1828.2	3751.9	6221.3	7963.8	8406.8
30°	1529.6	1529.6	1546.7	1617.8	3132.7	6076.9	8169.5	8617.3
32.5°	1456.2	1456.2	1470.9	1522.3	2501.2	5895.8	8357.8	8830.3
35°	1382.8	1377.9	1397.5	1451.3	1989.7	5665.8	8546.3	9060.3
37.5°	1304.5	1302.1	1321.6	1382.8	1718.1	5399.0	8688.3	9373.5
40°	1221.3	1221.3	1243.3	1309.3	1639.8	5063.7	8913.4	9823.9
42.5°	1145.3	1140.5	1165.0	1245.7	1581.1	4743.1	9317.2	10479.8
45°	1071.9	1062.2	1084.2	1184.6	1478.3	4630.5	10071.0	11448.9
47.5°	1003.5	979.0	998.6	1111.1	1385.2	5051.4	11304.5	12792.6
50°	947.1	900.7	917.8	1037.7	1314.3	5964.4	12905.2	14576.7
52.5°	888.4	827.2	837.0	947.1	1250.6	6833.2	14640.4	16931.2
55°	827.2	758.7	763.6	856.6	1160.1	6962.8	16334.0	20142.2
57.5°	758.7	695.1	695.1	773.4	1094.0	6035.3	17636.0	24126.6
60°	682.9	641.2	628.9	707.2	1152.7	4258.5	17787.7	26696.3
62.5°	599.6	577.6	560.5	643.7	1196.8	2523.2	16566.5	26074.7
65°	504.2	499.3	487.1	707.2	1008.3	1490.5	14221.9	24168.2
67.5°	423.4	416.0	416.0	741.6	766.1	937.4	11111.2	21544.5
70°	364.7	337.7	337.7	560.5	465.0	648.5	7758.2	18712.8
72.5°	306.0	276.5	257.0	447.9	347.6	474.8	4848.4	16025.6
75°	244.8	222.7	198.2	296.1	259.4	359.8	2817.0	13277.1
77.5°	176.2	166.5	139.5	217.8	188.5	259.4	1676.5	10244.9
80°	90.5	93.0	88.1	124.8	127.3	176.2	954.5	7011.8
82.5°	53.8	41.6	46.5	61.2	73.4	100.3	359.8	4121.4
85°	34.2	22.0	22.0	29.4	36.7	39.2	110.1	1671.6
87.5°	17.1	7.4	9.8	14.7	12.2	9.8	4.9	421.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)