

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: P970793

Luminaire Tested: **NAV-SB6C-722-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970793
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-722-U-SLL-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2200K, 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: 29347.8 lumens
Efficiency: N/A
Efficacy: 97.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

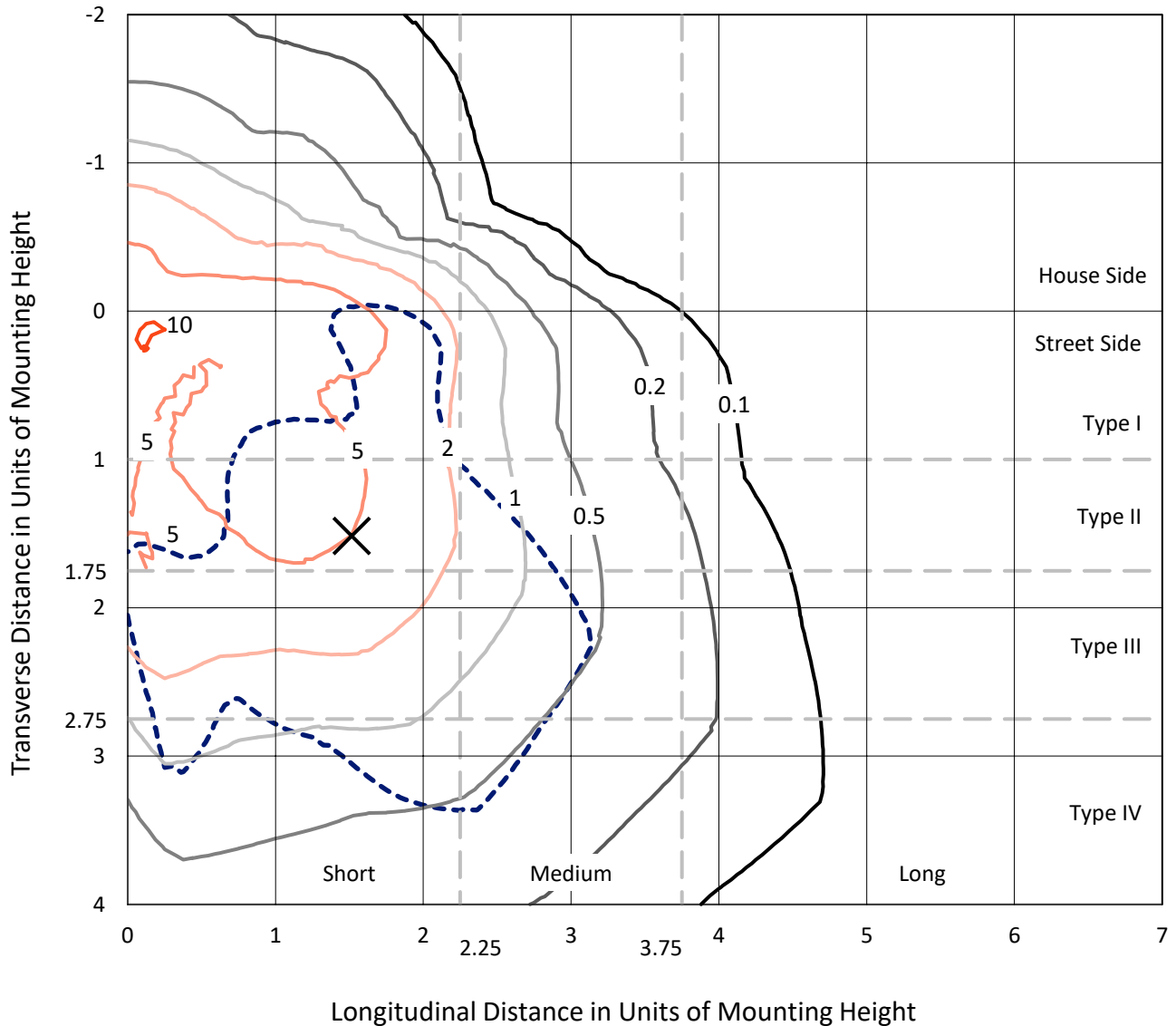
Input Watts (W): 300.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

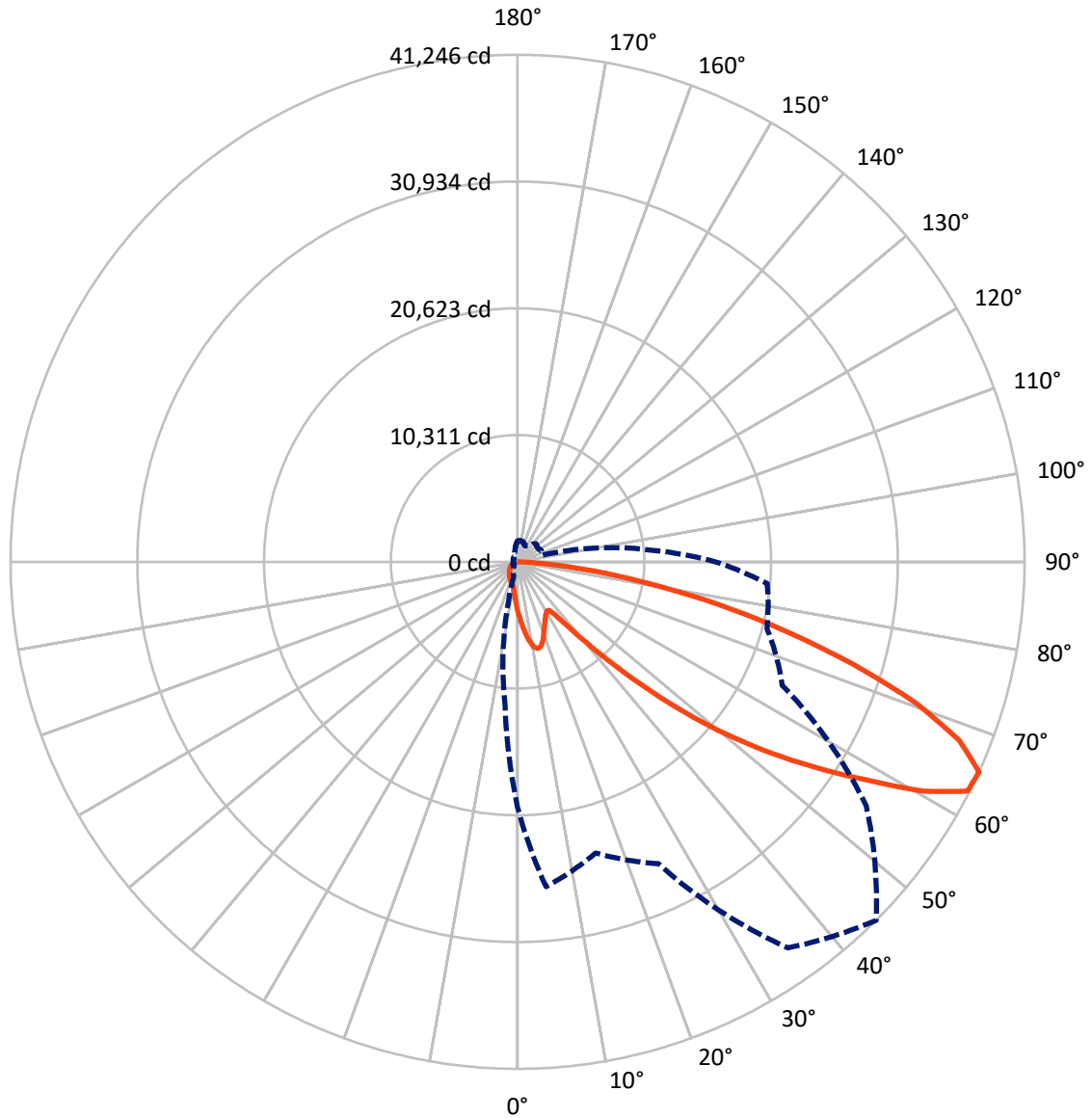
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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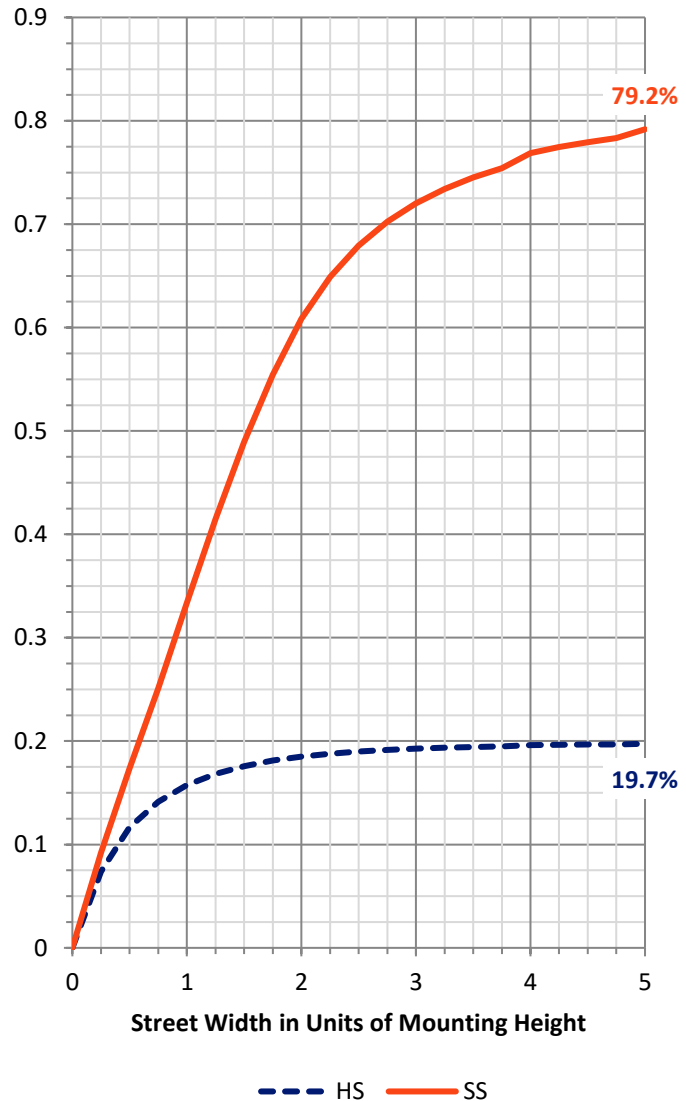
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5833.4	0.0	5833.4
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	23514.4	0.0	23514.4
	% Fixture	80.1	0.0	80.1
Total	Lumens	29347.8	0.0	29347.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	400.1	1.4
10°-20°	1199.3	4.1
20°-30°	1766.9	6.0
30°-40°	2270.0	7.7
40°-50°	3671.2	12.5
50°-60°	6437.8	21.9
60°-70°	8055.4	27.4
70°-80°	4707.2	16.0
80°-90°	839.8	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°	29347.8	100.0
0°-180°	29347.8	100.0

Coefficient of Utilization



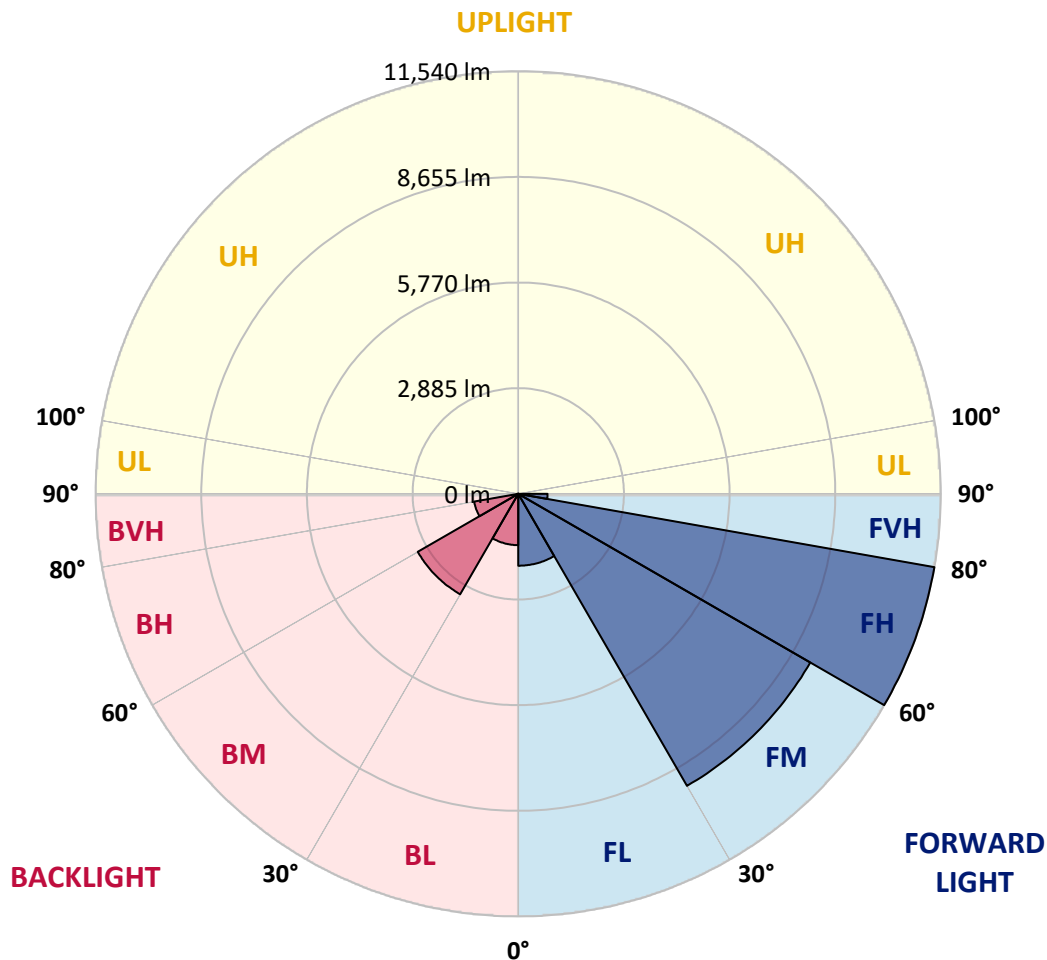
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1963.7	6.7			
FM (30°-60°)	9209.7	31.4			
FH (60°-80°)	11540.5	39.3			G4/12000
FVH (80°-90°)	800.5	2.7			G5
BL (0°-30°)	1402.6	4.8	B3/2500		
BM (30°-60°)	3169.3	10.8	B3/5000		
BH (60°-80°)	1222.2	4.2	B3/2500		G3/2500
BVH (80°-90°)	39.4	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°	4063.7	4063.7	4063.7	4063.7	4063.7	4063.7	4063.7	4063.7	4063.7	4063.7	4063.7
2.5°	4552.9	4587.4	4664.2	4704.6	4767.3	4771.4	4771.4	4716.7	4714.7	4603.6	4591.4
5°	5088.7	5169.6	5351.6	5539.6	5580.1	5590.1	5570.0	5460.8	5379.9	5163.5	5117.1
7.5°	5620.5	5776.2	6053.1	6303.9	6384.7	6384.7	6336.1	6158.3	5992.5	5679.1	5561.9
10°	6061.2	6257.3	6633.4	6914.4	7007.4	6987.2	6888.1	6663.7	6435.3	6055.2	5901.5
12.5°	6352.3	6572.7	6985.2	7211.6	7306.6	7254.0	7140.9	6922.5	6681.9	6281.6	6107.8
15°	6497.9	6728.4	7086.2	7205.5	7179.3	7124.7	7110.5	7005.4	6823.4	6449.4	6259.4
17.5°	6560.6	6774.9	7023.6	6948.8	6726.4	6683.9	6825.5	6958.9	6914.4	6595.0	6417.0
20°	6619.2	6799.1	6874.0	6542.4	6154.2	6115.8	6386.8	6766.8	6960.9	6730.5	6566.7
22.5°	6700.1	6811.3	6657.7	6113.8	5695.3	5606.3	5905.5	6477.7	6975.0	6902.2	6738.6
25°	6811.3	6841.7	6419.1	5707.4	5286.8	5198.0	5477.0	6156.3	6950.8	7088.3	6948.8
27.5°	6944.8	6882.1	6190.6	5367.7	4961.4	4878.5	5157.5	5846.9	6882.1	7274.3	7175.2
30°	7118.6	6934.6	5964.2	5104.9	4728.9	4668.3	4937.1	5580.1	6797.2	7510.8	7456.3
32.5°	7294.5	6956.9	5753.9	4951.3	4676.4	4698.6	4919.0	5436.5	6704.1	7737.2	7763.6
35°	7484.6	7027.6	5650.8	5103.0	5115.1	5309.1	5400.1	5570.0	6690.0	8044.6	8147.7
37.5°	7743.4	7185.4	5774.1	5857.1	6277.5	6679.9	6605.1	6223.0	6853.8	8503.5	8695.6
40°	8115.3	7462.3	6312.0	7140.9	8004.1	8657.2	8372.1	7409.7	7355.2	9164.6	9451.7
42.5°	8657.2	7903.1	7266.2	8709.7	10173.4	11249.1	10484.8	8940.3	8232.6	10108.8	10474.7
45°	9457.8	8616.8	8420.6	10365.5	12848.3	14542.5	12953.4	10571.7	9461.8	11538.1	11825.2
47.5°	10567.7	9666.1	9502.3	12110.3	16099.3	18290.8	15690.9	12084.0	10860.9	13487.2	13553.9
50°	12041.6	11079.2	10527.3	14018.8	19663.6	22111.9	18426.3	13543.7	12464.1	15868.7	15792.0
52.5°	13986.5	13050.4	11722.1	15836.5	23329.1	25852.2	21173.8	14825.5	14453.5	18632.6	18474.8
55°	16639.0	16016.3	13355.7	17571.1	26992.5	29614.7	23814.2	16034.6	17081.8	21915.8	20961.6
57.5°	19930.5	20375.3	15711.1	19582.7	30285.9	33492.4	26466.8	17724.7	20494.6	25587.4	22405.1
60°	22053.3	26171.6	20221.6	22556.8	34028.2	37877.6	30101.9	20939.3	24081.1	26903.5	22130.2
62.5°	21539.8	28015.5	25623.8	26353.6	37469.2	41065.9	33664.3	24168.1	24756.4	24964.7	20011.4
65°	19964.8	26527.5	24521.9	27091.6	38340.6	41245.9	34616.5	23751.6	21000.0	20381.3	16085.1
67.5°	17797.5	24762.5	21903.7	25134.4	36765.6	38730.8	32843.5	21010.1	16228.6	15294.6	11669.6
70°	15458.3	22809.4	20185.2	22938.9	33763.3	34347.6	29829.0	18478.9	11936.4	10329.1	7488.5
72.5°	13238.5	20775.6	19008.5	20688.6	29758.2	28549.2	25904.7	16240.8	8691.5	7450.2	5323.2
75°	10968.0	17775.2	17332.5	18015.9	24491.6	22488.0	21523.7	13446.7	6821.4	5390.0	3673.5
77.5°	8463.1	13889.5	14908.4	14427.3	17239.5	16703.7	16683.5	10104.8	4983.7	3596.7	2302.8
80°	5792.4	9680.2	11647.4	10177.5	11188.4	10915.4	12565.2	6778.9	3614.9	2165.3	1281.8
82.5°	3404.6	5893.4	8107.2	4927.1	6186.6	6350.4	7482.5	3297.5	2126.9	499.4	279.0
85°	1380.9	2327.1	3170.1	1928.7	2984.1	2517.1	2840.6	926.0	592.3	12.1	0.0
87.5°	347.8	744.0	521.6	216.4	345.7	317.4	250.7	113.3	24.3	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°	4063.7	4063.7	4063.7	4063.7	4063.7	4063.7	4063.7	4063.7	4063.7	4063.7	4063.7
2.5°	4512.6	4466.0	4350.8	4235.6	4142.5	4017.2	3934.4	3835.2	3740.2	3655.4	3639.2
5°	4989.7	4836.1	4625.8	4433.7	4237.6	4047.5	3859.5	3661.4	3479.5	3368.3	3297.5
7.5°	5377.9	5107.0	4828.0	4583.3	4346.8	4124.4	3875.7	3635.2	3350.0	3198.4	3061.0
10°	5667.0	5311.1	4945.2	4664.2	4425.6	4209.3	3999.0	3756.4	3412.7	3222.7	3016.5
12.5°	5857.1	5434.4	5005.9	4684.5	4417.5	4249.8	4156.7	4061.7	3720.0	3497.6	3198.4
15°	5988.5	5521.4	5048.3	4637.9	4310.4	4187.0	4280.1	4389.3	4170.9	3914.2	3524.0
17.5°	6132.0	5634.6	5066.5	4512.6	4102.2	4049.6	4290.1	4542.9	4532.8	4278.0	3895.9
20°	6283.7	5733.7	5054.4	4310.4	3849.4	3895.9	4203.2	4496.4	4619.7	4482.2	4142.5
22.5°	6439.3	5828.8	5007.8	4047.5	3612.9	3758.5	4065.8	4322.5	4468.1	4425.6	4166.8
25°	6635.4	5962.1	4939.2	3764.5	3416.7	3619.0	3906.1	4114.2	4215.3	4213.4	4035.4
27.5°	6870.0	6140.1	4902.8	3536.0	3277.2	3461.2	3716.0	3902.0	3972.8	3972.8	3831.2
30°	7142.9	6350.4	4862.3	3386.4	3196.4	3297.5	3495.7	3677.6	3748.3	3748.3	3629.0
32.5°	7446.1	6552.5	4765.3	3295.5	3135.8	3137.7	3263.1	3428.9	3513.8	3525.9	3441.0
35°	7810.1	6768.8	4552.9	3222.7	3065.0	2982.1	3042.7	3180.3	3281.3	3307.6	3255.0
37.5°	8287.2	7033.7	4249.8	3115.5	2955.8	2818.3	2832.5	2937.6	3048.8	3089.2	3054.9
40°	8928.1	7345.0	3934.4	2961.8	2802.1	2638.4	2632.3	2709.2	2818.3	2862.8	2844.6
42.5°	9775.2	7719.1	3633.1	2814.2	2616.1	2448.3	2438.3	2498.8	2593.9	2640.4	2632.3
45°	10858.8	8178.0	3374.3	2699.0	2434.2	2268.4	2264.3	2315.0	2397.8	2446.4	2436.2
47.5°	12365.1	8637.0	3198.4	2638.4	2290.7	2120.8	2128.9	2173.4	2248.2	2282.6	2268.4
50°	14328.2	8776.5	3109.4	2638.4	2213.8	1989.4	2029.8	2066.2	2122.9	2143.1	2124.8
52.5°	16212.4	8315.5	3028.6	2654.5	2223.9	1878.2	1965.1	1991.5	2040.0	2048.1	2021.7
55°	17136.4	7149.0	2917.4	2658.6	2286.6	1783.2	1912.5	1961.1	1979.3	1977.3	1932.8
57.5°	16819.0	5780.2	2729.4	2642.4	2329.1	1722.5	1847.9	1940.8	1953.0	1934.8	1852.0
60°	15705.0	4255.8	2585.9	2523.1	2312.9	1704.4	1748.9	1896.5	1914.6	1890.3	1754.9
62.5°	13836.9	2953.7	2474.7	2260.3	2242.1	1698.3	1593.2	1799.4	1843.9	1809.4	1611.3
65°	10893.2	2086.5	2131.0	1981.3	2088.4	1665.9	1431.4	1682.1	1742.7	1690.2	1411.2
67.5°	7371.3	1506.2	1726.6	1795.3	1839.8	1593.2	1314.2	1548.7	1629.5	1560.8	1178.6
70°	3980.8	1057.4	1140.3	1512.3	1562.8	1467.8	1209.0	1413.2	1506.2	1431.4	960.3
72.5°	2351.4	760.1	798.6	1215.0	1302.1	1291.9	1091.7	1255.5	1368.7	1279.8	780.4
75°	1295.9	513.5	570.1	881.5	1057.4	996.7	938.1	1063.4	1178.6	1091.7	602.5
77.5°	580.3	307.3	396.3	578.2	831.0	683.4	725.8	828.9	936.0	845.1	402.3
80°	224.4	171.9	262.8	315.4	604.5	378.0	467.0	610.6	687.4	614.6	244.7
82.5°	28.3	76.9	113.3	123.3	351.8	200.2	270.9	384.2	378.0	327.5	123.3
85°	0.0	14.1	16.2	8.1	151.6	72.8	89.0	125.4	117.3	89.0	10.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	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°	4063.7	4063.7	4063.7	4063.7	4063.7	4063.7	4063.7	4063.7	4063.7	4063.7	4063.7
2.5°	3540.1	3467.3	3430.9	3400.6	3428.9	3445.0	3445.0	3513.8	3554.3	3570.4	3683.6
5°	3119.6	2984.1	2893.2	2838.5	2856.8	2877.0	2899.2	2986.1	3044.8	3083.2	3259.1
7.5°	2788.0	2581.8	2454.4	2387.7	2397.8	2411.9	2430.2	2515.0	2573.7	2624.2	2820.4
10°	2624.2	2333.1	2165.3	2084.4	2070.3	2062.2	2056.1	2106.7	2151.2	2191.6	2385.7
12.5°	2632.3	2226.0	2021.7	1922.7	1880.3	1831.7	1793.3	1801.3	1829.7	1880.3	2003.6
15°	2735.4	2191.6	1947.0	1823.6	1752.9	1696.3	1649.7	1639.7	1649.7	1657.8	1734.7
17.5°	2874.9	2187.6	1882.2	1728.6	1655.8	1609.4	1566.8	1552.7	1554.7	1564.9	1585.1
20°	2986.1	2175.5	1809.4	1637.6	1573.0	1532.5	1490.0	1475.9	1479.9	1481.9	1504.2
22.5°	3044.8	2157.2	1728.6	1546.6	1492.1	1451.6	1413.2	1411.2	1411.2	1423.3	1439.5
25°	3044.8	2118.8	1655.8	1459.7	1411.2	1374.8	1328.3	1336.4	1340.4	1356.6	1380.9
27.5°	2972.0	2046.0	1597.2	1384.9	1334.3	1298.0	1255.5	1265.7	1271.7	1289.9	1320.2
30°	2879.0	1959.1	1530.4	1314.2	1255.5	1229.2	1192.8	1196.9	1205.0	1225.2	1259.5
32.5°	2779.9	1856.0	1475.9	1243.4	1184.8	1164.5	1124.1	1130.2	1138.3	1160.5	1198.9
35°	2670.7	1734.7	1411.2	1178.6	1120.0	1103.9	1057.4	1061.4	1073.6	1097.8	1136.2
37.5°	2555.5	1635.6	1346.4	1116.0	1055.3	1039.1	990.7	994.7	1008.9	1037.2	1073.6
40°	2442.3	1538.5	1277.8	1049.3	988.6	974.5	921.9	926.0	942.2	972.4	1010.9
42.5°	2319.0	1463.8	1188.8	980.5	915.8	901.7	853.2	859.3	877.4	907.7	946.2
45°	2171.4	1415.2	1089.7	915.8	843.1	828.9	784.4	796.5	816.8	847.2	887.5
47.5°	2019.8	1395.0	1006.9	847.2	768.2	756.1	719.8	739.9	762.2	786.5	831.0
50°	1874.2	1368.7	921.9	782.4	703.6	691.5	667.2	693.4	715.7	737.9	780.4
52.5°	1708.4	1312.1	845.1	725.8	649.0	644.9	632.8	657.0	677.3	697.5	733.9
55°	1536.6	1221.2	778.4	675.3	602.5	606.5	600.4	620.6	636.8	655.1	687.4
57.5°	1386.9	1105.9	725.8	620.6	562.0	574.2	566.1	576.2	586.3	608.5	634.8
60°	1235.3	968.4	667.2	556.0	521.6	535.8	513.5	511.5	515.6	521.6	570.1
62.5°	1031.0	824.9	594.4	499.4	477.1	483.2	440.7	408.4	408.4	414.5	487.3
65°	828.9	691.5	513.5	434.7	416.5	412.5	351.8	307.3	303.3	321.4	384.2
67.5°	681.3	574.2	432.7	361.9	349.7	353.8	309.3	264.9	260.8	281.1	327.5
70°	564.1	463.0	345.7	279.0	291.1	309.3	264.9	222.4	216.4	234.5	279.0
72.5°	448.8	361.9	264.9	206.2	240.6	262.8	216.4	175.9	171.9	188.0	230.5
75°	329.5	258.8	179.9	149.6	186.0	206.2	157.7	125.4	119.3	133.5	175.9
77.5°	204.2	145.5	113.3	89.0	127.4	137.5	82.9	72.8	70.7	80.9	111.2
80°	95.0	62.6	54.6	30.3	46.5	54.6	34.3	38.4	40.4	48.5	68.8
82.5°	26.2	10.1	2.0	0.0	0.0	16.2	8.1	16.2	20.2	30.3	44.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	10.1	18.2	32.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.1	16.2
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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CATALOG NUMBER: NAV-SB6C-722-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	4063.7	4063.7	4063.7	4063.7	4063.7	4063.7	4063.7	4063.7
2.5°	3768.5	3849.4	3978.8	4112.3	4243.7	4377.1	4506.5	4552.9
5°	3418.8	3604.8	3861.6	4136.5	4419.6	4706.7	4969.5	5088.7
7.5°	3028.6	3295.5	3681.6	4112.3	4563.1	5014.0	5428.4	5620.5
10°	2612.1	2949.7	3390.5	3972.8	4619.7	5242.5	5812.6	6061.2
12.5°	2215.8	2569.7	3056.9	3754.4	4575.2	5373.9	6059.2	6352.3
15°	1884.3	2197.6	2723.3	3495.7	4431.7	5382.0	6176.4	6497.9
17.5°	1635.6	1839.8	2383.6	3208.6	4243.7	5307.1	6216.9	6560.6
20°	1512.3	1568.9	1942.9	2840.6	4067.8	5236.3	6257.3	6619.2
22.5°	1439.5	1453.7	1589.1	2365.5	3857.5	5214.1	6328.1	6700.1
25°	1380.9	1384.9	1421.3	1874.2	3536.0	5199.9	6437.3	6811.3
27.5°	1322.2	1322.2	1342.4	1510.2	3099.4	5139.3	6578.8	6944.8
30°	1263.6	1263.6	1277.8	1336.4	2587.8	5020.0	6748.6	7118.6
32.5°	1202.9	1202.9	1215.0	1257.6	2066.2	4870.4	6904.3	7294.5
35°	1142.3	1138.3	1154.5	1198.9	1643.7	4680.4	7060.0	7484.6
37.5°	1077.6	1075.5	1091.7	1142.3	1419.3	4460.0	7177.3	7743.4
40°	1008.9	1008.9	1027.0	1081.7	1354.5	4183.0	7363.2	8115.3
42.5°	946.2	942.2	962.4	1029.1	1306.1	3918.2	7696.8	8657.2
45°	885.5	877.4	895.6	978.6	1221.2	3825.2	8319.5	9457.8
47.5°	828.9	808.7	824.9	917.9	1144.3	4172.9	9338.5	10567.7
50°	782.4	744.0	758.2	857.2	1085.7	4927.1	10660.7	12041.6
52.5°	733.9	683.4	691.5	782.4	1033.1	5644.8	12094.2	13986.5
55°	683.4	626.8	630.8	707.7	958.3	5751.9	13493.2	16639.0
57.5°	626.8	574.2	574.2	638.9	903.7	4985.7	14568.7	19930.5
60°	564.1	529.7	519.6	584.2	952.2	3517.9	14694.1	22053.3
62.5°	495.3	477.1	463.0	531.8	988.6	2084.4	13685.3	21539.8
65°	416.5	412.5	402.3	584.2	832.9	1231.2	11748.4	19964.8
67.5°	349.7	343.7	343.7	612.6	632.8	774.3	9178.8	17797.5
70°	301.2	279.0	279.0	463.0	384.2	535.8	6409.0	15458.3
72.5°	252.8	228.5	212.3	370.0	287.1	392.3	4005.1	13238.5
75°	202.1	184.0	163.8	244.7	214.3	297.1	2327.1	10968.0
77.5°	145.5	137.5	115.2	179.9	155.7	214.3	1384.9	8463.1
80°	74.8	76.9	72.8	103.1	105.2	145.5	788.5	5792.4
82.5°	44.5	34.3	38.4	50.5	60.7	82.9	297.1	3404.6
85°	28.3	18.2	18.2	24.3	30.3	32.4	91.0	1380.9
87.5°	14.1	6.0	8.1	12.1	10.1	8.1	4.0	347.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)