

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: P964471

Luminaire Tested: **NAV-SB3C-722-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964471
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-SB3C-722-U-SLR-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2200K, 615mA 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: 14520.1 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

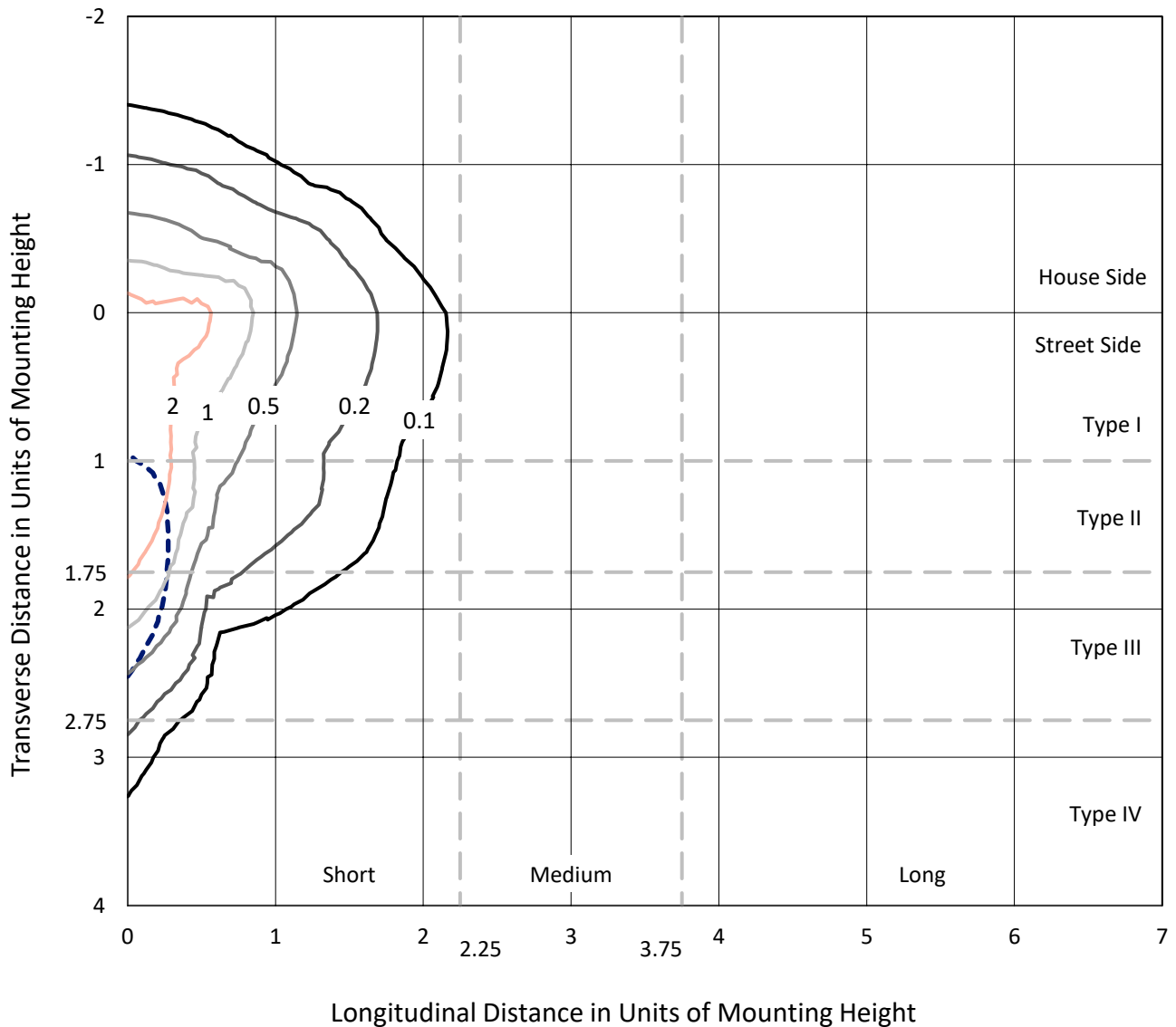
Input Watts (W): 149.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

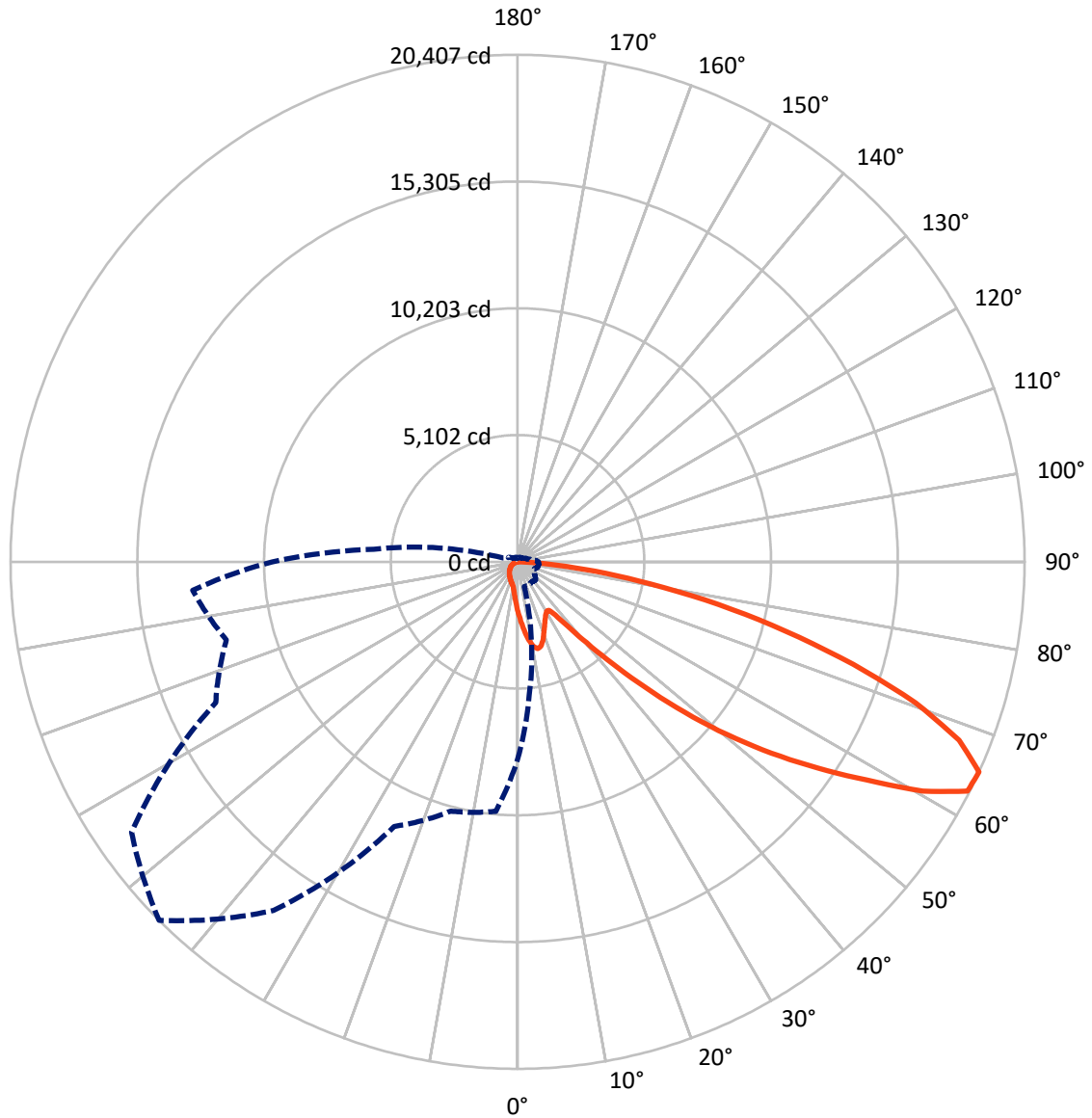
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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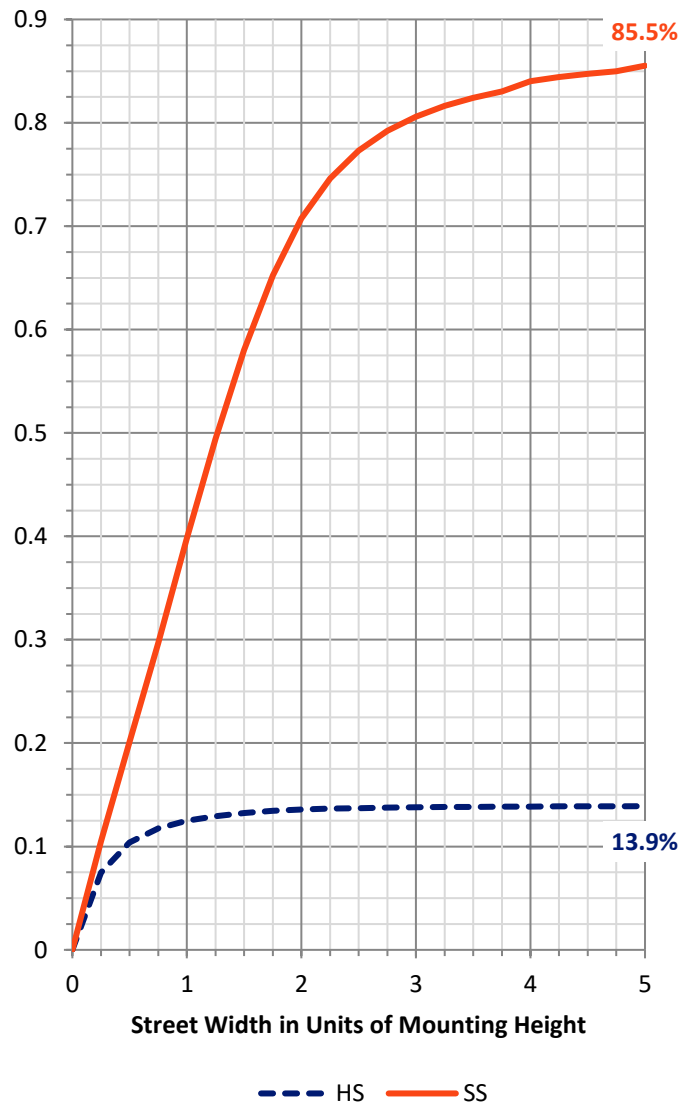
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2033.4	0.0	2033.4
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	12486.7	0.0	12486.7
	% Fixture	86.0	0.0	86.0
Total	Lumens	14520.1	0.0	14520.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.9	1.4
10°-20°	593.4	4.1
20°-30°	874.2	6.0
30°-40°	1123.1	7.7
40°-50°	1816.4	12.5
50°-60°	3185.2	21.9
60°-70°	3985.5	27.4
70°-80°	2329.0	16.0
80°-90°	415.5	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°	14520.1	100.0
0°-180°	14520.1	100.0

Coefficient of Utilization



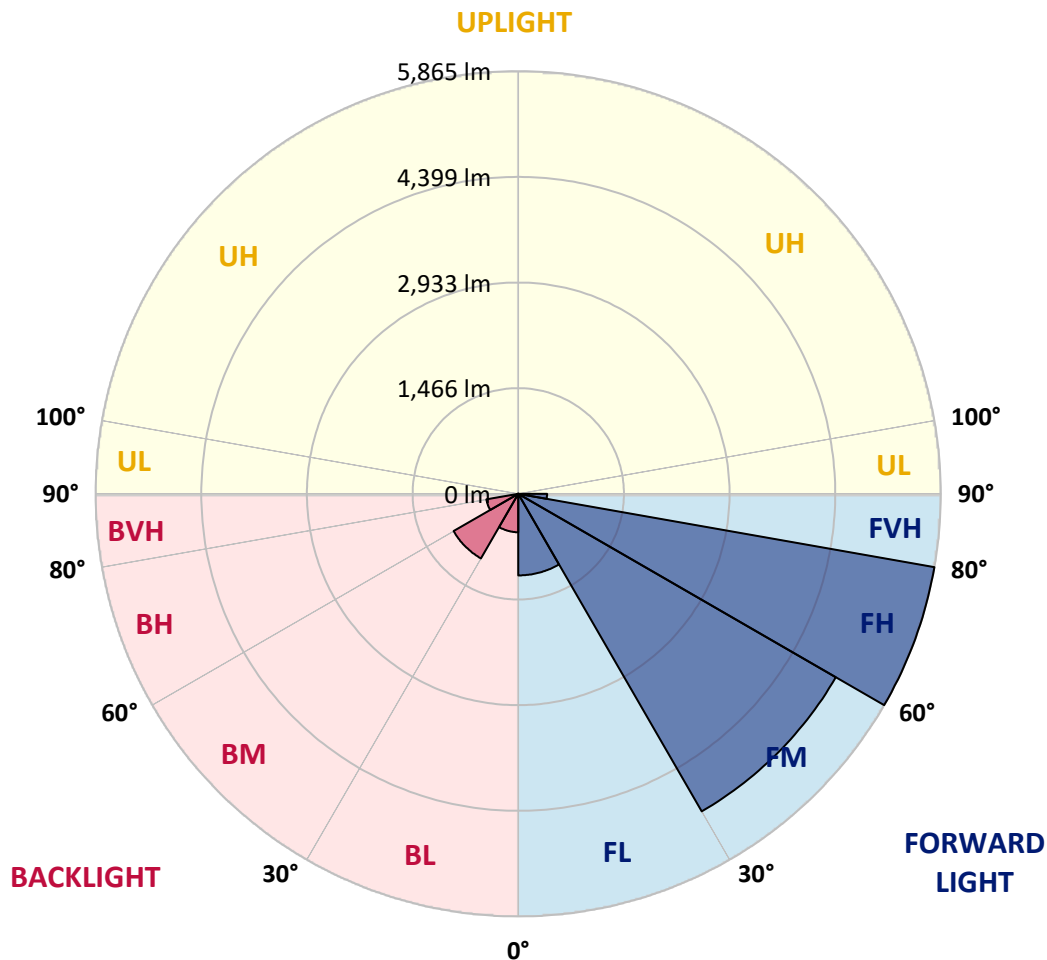
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1132.5	7.8			
FM (30°-60°)	5089.2	35.0			
FH (60°-80°)	5865.5	40.4			G3/7500
FVH (80°-90°)	399.6	2.8			G3/500
BL (0°-30°)	533.0	3.7	B2/1000		
BM (30°-60°)	1035.5	7.1	B2/2500		
BH (60°-80°)	449.0	3.1	B1/500		G1/500
BVH (80°-90°)	16.0	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-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2010.5	2010.5	2010.5	2010.5	2010.5	2010.5	2010.5	2010.5	2010.5	2010.5	2010.5
2.5°	2271.6	2232.7	2209.6	2152.6	2095.6	2049.6	1987.6	1946.6	1897.6	1850.5	1808.5
5°	2531.8	2468.7	2392.7	2288.6	2193.6	2096.6	2002.5	1909.6	1811.5	1721.5	1666.4
7.5°	2751.8	2660.8	2526.7	2388.7	2267.6	2150.7	2040.6	1917.6	1798.5	1657.4	1582.5
10°	2919.8	2803.8	2627.8	2446.7	2307.7	2189.6	2082.6	1978.6	1858.5	1688.5	1594.5
12.5°	3021.9	2897.9	2688.8	2476.7	2317.6	2185.6	2102.6	2056.6	2009.6	1840.5	1730.5
15°	3096.9	2962.9	2731.8	2497.7	2294.7	2132.6	2071.6	2117.6	2171.7	2063.6	1936.5
17.5°	3174.9	3033.9	2787.8	2506.7	2232.7	2029.6	2003.6	2122.6	2247.6	2242.6	2116.6
20°	3248.9	3108.9	2836.8	2500.7	2132.6	1904.6	1927.5	2079.6	2224.7	2285.6	2217.6
22.5°	3333.9	3185.9	2883.8	2477.7	2002.5	1787.5	1859.6	2011.6	2138.7	2210.6	2189.6
25°	3438.0	3283.0	2949.8	2443.7	1862.5	1690.5	1790.5	1932.5	2035.5	2085.6	2084.6
27.5°	3550.0	3399.0	3037.9	2425.7	1749.5	1621.4	1712.5	1838.5	1930.6	1965.5	1965.5
30°	3689.1	3534.0	3141.9	2405.7	1675.5	1581.5	1631.5	1729.5	1819.5	1854.5	1854.5
32.5°	3841.1	3684.1	3242.0	2357.7	1630.5	1551.4	1552.5	1614.5	1696.5	1738.5	1744.6
35°	4031.1	3864.1	3349.0	2252.6	1594.5	1516.4	1475.4	1505.4	1573.5	1623.5	1636.5
37.5°	4302.2	4100.2	3480.0	2102.6	1541.4	1462.5	1394.4	1401.4	1453.4	1508.4	1528.5
40°	4676.4	4417.2	3634.0	1946.6	1465.4	1386.4	1305.3	1302.4	1340.4	1394.4	1416.4
42.5°	5182.5	4836.4	3819.0	1797.5	1392.4	1294.4	1211.3	1206.3	1236.4	1283.4	1306.4
45°	5850.7	5372.5	4046.2	1669.5	1335.4	1204.4	1122.3	1120.3	1145.3	1186.3	1210.3
47.5°	6706.0	6117.7	4273.2	1582.5	1305.3	1133.3	1049.3	1053.3	1075.3	1112.3	1129.3
50°	7813.3	7089.0	4342.2	1538.4	1305.3	1095.3	984.3	1004.3	1022.3	1050.3	1060.3
52.5°	9140.6	8021.3	4114.1	1498.4	1313.3	1100.3	929.3	972.3	985.3	1009.3	1013.3
55°	10370.9	8478.4	3537.0	1443.4	1315.4	1131.3	882.2	946.3	970.3	979.3	978.3
57.5°	11085.2	8321.4	2859.9	1350.4	1307.4	1152.3	852.3	914.3	960.3	966.3	957.2
60°	10949.2	7770.2	2105.6	1279.4	1248.3	1144.3	843.3	865.2	938.3	947.3	935.3
62.5°	9900.9	6846.0	1461.4	1224.4	1118.3	1109.4	840.2	788.2	890.2	912.2	895.2
65°	7958.3	5389.6	1032.3	1054.3	980.3	1033.3	824.2	708.2	832.2	862.2	836.2
67.5°	5773.6	3647.1	745.2	854.2	888.3	910.3	788.2	650.2	766.2	806.3	772.2
70°	3705.1	1969.5	523.2	564.2	748.2	773.3	726.2	598.2	699.2	745.2	708.2
72.5°	2633.7	1163.4	376.1	395.1	601.2	644.2	639.2	540.2	621.2	677.2	633.1
75°	1817.5	641.1	254.1	282.1	436.1	523.2	493.1	464.1	526.1	583.1	540.2
77.5°	1139.3	287.1	152.0	196.1	286.1	411.1	338.1	359.1	410.1	463.1	418.1
80°	634.2	111.0	85.1	130.1	156.0	299.1	187.1	231.0	302.1	340.1	304.1
82.5°	138.1	14.0	38.0	56.0	61.0	174.0	99.0	134.1	190.0	187.1	162.1
85°	0.0	0.0	7.0	8.0	4.0	75.0	36.0	44.0	62.0	58.0	44.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	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°	2010.5	2010.5	2010.5	2010.5	2010.5	2010.5	2010.5	2010.5	2010.5	2010.5	2010.5
2.5°	1800.5	1751.5	1715.5	1697.5	1682.4	1696.5	1704.5	1704.5	1738.5	1758.5	1766.5
5°	1631.5	1543.4	1476.4	1431.4	1404.4	1413.4	1423.4	1434.4	1477.4	1506.4	1525.4
7.5°	1514.4	1379.4	1277.4	1214.3	1181.3	1186.3	1193.3	1202.3	1244.4	1273.4	1298.4
10°	1492.4	1298.4	1154.4	1071.3	1031.3	1024.3	1020.3	1017.3	1042.3	1064.3	1084.3
12.5°	1582.5	1302.4	1101.4	1000.3	951.3	930.3	906.3	887.2	891.2	905.3	930.3
15°	1743.5	1353.4	1084.3	963.3	902.3	867.3	839.3	816.2	811.2	816.2	820.2
17.5°	1927.5	1422.4	1082.3	931.3	855.3	819.3	796.2	775.2	768.2	769.3	774.2
20°	2049.6	1477.4	1076.4	895.2	810.3	778.2	758.2	737.2	730.2	732.3	733.2
22.5°	2061.6	1506.4	1067.3	855.3	765.3	738.2	718.2	699.2	698.2	698.2	704.2
25°	1996.6	1506.4	1048.3	819.3	722.2	698.2	680.2	657.2	661.2	663.2	671.2
27.5°	1895.5	1470.5	1012.3	790.3	685.2	660.2	642.2	621.2	626.2	629.1	638.2
30°	1795.5	1424.4	969.2	757.2	650.2	621.2	608.1	590.2	592.1	596.1	606.2
32.5°	1702.5	1375.3	918.3	730.2	615.2	586.2	576.2	556.2	559.1	563.1	574.2
35°	1610.5	1321.3	858.2	698.2	583.1	554.1	546.1	523.2	525.1	531.2	543.1
37.5°	1511.5	1264.3	809.2	666.1	552.2	522.1	514.1	490.2	492.1	499.2	513.1
40°	1407.4	1208.4	761.3	632.2	519.2	489.1	482.2	456.1	458.2	466.2	481.1
42.5°	1302.4	1147.3	724.2	588.1	485.1	453.2	446.1	422.1	425.2	434.1	449.2
45°	1205.3	1074.3	700.2	539.2	453.2	417.1	410.1	388.1	394.1	404.2	419.1
47.5°	1122.3	999.3	690.2	498.2	419.1	380.1	374.1	356.1	366.1	377.1	389.1
50°	1051.3	927.2	677.2	456.1	387.1	348.1	342.1	330.0	343.1	354.1	365.1
52.5°	1000.3	845.2	649.2	418.1	359.1	321.1	319.1	313.1	325.1	335.1	345.1
55°	956.3	760.2	604.1	385.1	334.0	298.1	300.1	297.0	307.1	315.1	324.1
57.5°	916.2	686.2	547.1	359.1	307.1	278.1	284.1	280.0	285.1	290.1	301.0
60°	868.3	611.2	479.2	330.0	275.1	258.1	265.1	254.1	253.1	255.1	258.1
62.5°	797.2	510.1	408.2	294.1	247.0	236.1	239.0	218.0	202.0	202.0	205.1
65°	698.2	410.1	342.1	254.1	215.0	206.0	204.1	174.0	152.0	150.1	159.1
67.5°	583.1	337.1	284.1	214.0	179.1	173.0	175.1	153.0	131.0	129.0	139.0
70°	475.1	279.1	229.1	171.1	138.1	144.0	153.0	131.0	110.0	107.0	116.0
72.5°	386.1	222.0	179.1	131.0	102.0	119.0	130.1	107.0	87.0	85.1	93.1
75°	298.1	163.1	128.0	89.1	74.0	92.0	102.0	78.0	62.0	59.0	66.0
77.5°	199.1	101.1	72.1	56.0	44.0	63.0	68.1	41.0	36.0	35.1	40.0
80°	121.1	47.0	31.1	27.0	15.0	23.0	27.0	17.0	19.0	20.0	24.0
82.5°	61.0	13.0	5.0	1.0	0.0	0.0	8.0	4.0	8.0	10.0	15.0
85°	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	5.0	9.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0
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°	2010.5	2010.5	2010.5	2010.5	2010.5	2010.5	2010.5	2010.5	2010.5	2010.5	2010.5
2.5°	1822.6	1864.6	1904.6	1968.6	2034.6	2099.6	2165.6	2229.7	2252.6	2269.7	2307.7
5°	1612.4	1691.5	1783.5	1910.5	2046.6	2186.6	2328.7	2458.7	2517.7	2557.7	2647.8
7.5°	1395.4	1498.4	1630.5	1821.5	2034.6	2257.7	2480.7	2685.8	2780.8	2857.8	2994.8
10°	1180.3	1292.3	1459.4	1677.5	1965.5	2285.6	2593.8	2875.8	2998.8	3095.9	3281.9
12.5°	991.3	1096.3	1271.4	1512.4	1857.5	2263.6	2658.7	2997.8	3142.9	3251.9	3456.0
15°	858.2	932.2	1087.3	1347.4	1729.5	2192.6	2662.7	3055.8	3214.9	3329.0	3506.0
17.5°	784.2	809.2	910.3	1179.4	1587.4	2099.6	2625.7	3075.9	3246.0	3352.0	3475.0
20°	744.3	748.2	776.2	961.2	1405.4	2012.6	2590.8	3095.9	3275.0	3363.9	3401.0
22.5°	712.2	712.2	719.2	786.2	1170.3	1908.5	2579.7	3130.9	3315.0	3370.0	3293.9
25°	683.2	683.2	685.2	703.3	927.2	1749.5	2572.8	3184.9	3370.0	3385.0	3175.9
27.5°	653.2	654.2	654.2	664.2	747.2	1533.4	2542.7	3254.9	3436.0	3404.9	3062.9
30°	623.2	625.1	625.1	632.2	661.2	1280.3	2483.7	3338.9	3522.0	3431.0	2950.9
32.5°	593.2	595.2	595.2	601.2	622.2	1022.3	2409.7	3416.0	3609.0	3442.0	2846.8
35°	562.1	565.2	563.1	571.1	593.2	813.2	2315.7	3493.0	3703.0	3477.0	2795.8
37.5°	531.2	533.1	532.2	540.2	565.2	702.2	2206.6	3551.0	3831.1	3555.0	2856.8
40°	500.1	499.2	499.2	508.2	535.2	670.1	2069.6	3643.1	4015.1	3692.0	3122.9
42.5°	468.1	468.1	466.2	476.1	509.1	646.2	1938.6	3808.1	4283.3	3910.2	3595.0
45°	439.1	438.1	434.1	443.1	484.1	604.1	1892.6	4116.2	4679.3	4263.2	4166.2
47.5°	411.1	410.1	400.2	408.2	454.2	566.2	2064.6	4620.3	5228.5	4782.3	4701.4
50°	386.1	387.1	368.1	375.2	424.1	537.2	2437.7	5274.5	5957.7	5481.6	5208.5
52.5°	363.1	363.1	338.1	342.1	387.1	511.2	2792.8	5983.7	6920.0	6456.9	5799.7
55°	340.1	338.1	310.1	312.1	350.1	474.2	2845.8	6675.9	8232.4	7924.3	6607.9
57.5°	314.1	310.1	284.1	284.1	316.1	447.1	2466.7	7208.1	9860.8	10080.9	7773.2
60°	282.1	279.1	262.1	257.1	289.0	471.1	1740.4	7270.1	10911.1	12948.7	10004.8
62.5°	241.1	245.1	236.1	229.1	263.1	489.1	1031.3	6770.9	10657.0	13861.0	12677.6
65°	190.0	206.0	204.1	199.1	289.0	412.2	609.2	5812.7	9877.8	13124.7	12132.5
67.5°	162.1	173.0	170.0	170.0	303.1	313.1	383.1	4541.3	8805.6	12251.5	10837.1
70°	138.1	149.0	138.1	138.1	229.1	190.0	265.1	3170.9	7648.2	11285.2	9986.9
72.5°	114.1	125.0	113.1	105.1	183.1	142.1	194.0	1981.5	6549.9	10278.9	9404.7
75°	87.0	100.0	91.0	81.0	121.1	106.0	147.1	1151.3	5426.6	8794.5	8575.5
77.5°	55.0	72.1	68.1	57.0	89.1	77.0	106.0	685.2	4187.2	6872.0	7376.1
80°	34.0	37.0	38.0	36.0	51.0	52.0	72.1	390.1	2865.8	4789.4	5762.7
82.5°	22.0	22.0	17.0	19.0	25.0	30.0	41.0	147.1	1684.5	2915.8	4011.1
85°	16.0	14.0	9.0	9.0	12.0	15.0	16.0	45.0	683.2	1151.3	1568.5
87.5°	8.0	7.0	3.0	4.0	6.0	5.0	4.0	2.0	172.1	368.1	258.1
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-SB3C-722-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	2010.5	2010.5	2010.5	2010.5	2010.5	2010.5	2010.5	2010.5
2.5°	2327.7	2358.6	2360.7	2360.7	2333.7	2332.7	2277.7	2271.6
5°	2740.7	2760.8	2765.8	2755.8	2701.8	2661.7	2554.7	2531.8
7.5°	3118.9	3158.9	3158.9	3134.9	3046.9	2964.8	2809.8	2751.8
10°	3420.9	3467.0	3457.0	3408.0	3296.9	3184.0	2995.9	2919.8
12.5°	3568.0	3615.1	3589.0	3533.0	3424.9	3305.9	3107.9	3021.9
15°	3565.1	3552.0	3525.0	3518.0	3466.0	3375.9	3190.9	3096.9
17.5°	3438.0	3328.0	3307.0	3377.0	3443.0	3420.9	3263.0	3174.9
20°	3237.0	3044.9	3025.9	3159.9	3348.0	3444.0	3329.9	3248.9
22.5°	3024.9	2817.8	2773.8	2921.9	3204.9	3451.0	3415.0	3333.9
25°	2823.8	2615.8	2571.7	2709.8	3045.9	3439.0	3507.0	3438.0
27.5°	2655.8	2454.7	2413.7	2551.7	2892.9	3404.9	3599.1	3550.0
30°	2525.7	2339.7	2309.6	2442.7	2760.8	3362.9	3716.0	3689.1
32.5°	2449.8	2313.6	2324.7	2433.7	2689.8	3316.9	3828.1	3841.1
35°	2524.7	2530.7	2626.8	2671.8	2755.8	3309.9	3980.2	4031.1
37.5°	2897.9	3105.9	3304.9	3267.9	3078.9	3391.0	4207.2	4302.2
40°	3533.0	3960.1	4283.3	4142.2	3666.0	3639.1	4534.3	4676.4
42.5°	4309.2	5033.5	5565.5	5187.5	4423.3	4073.1	5001.4	5182.5
45°	5128.5	6356.8	7195.1	6408.8	5230.5	4681.4	5708.6	5850.7
47.5°	5991.7	7965.3	9049.6	7763.2	5978.7	5373.6	6673.0	6706.0
50°	6936.0	9728.8	10940.1	9116.7	6700.9	6166.8	7851.3	7813.3
52.5°	7835.2	11542.3	12790.7	10476.0	7335.1	7151.0	9218.6	9140.6
55°	8693.5	13354.8	14652.2	11782.4	7933.3	8451.4	10843.1	10370.9
57.5°	9688.8	14984.3	16570.8	13094.8	8769.5	10139.9	12659.7	11085.2
60°	11160.2	16835.8	18740.4	14893.2	10360.0	11914.4	13310.9	10949.2
62.5°	13038.7	18538.4	20317.9	16655.7	11957.4	12248.5	12351.6	9900.9
65°	13403.8	18969.5	20406.8	17126.9	11751.3	10390.0	10083.8	7958.3
67.5°	12435.6	18190.2	19162.5	16249.6	10394.9	8029.3	7567.2	5773.6
70°	11349.2	16704.8	16993.9	14758.3	9142.6	5905.7	5110.4	3705.1
72.5°	10236.0	14723.2	14125.0	12816.7	8035.3	4300.2	3686.1	2633.7
75°	8913.6	12117.4	11126.2	10649.0	6652.9	3375.0	2666.7	1817.5
77.5°	7138.0	8529.4	8264.4	8254.3	4999.4	2465.7	1779.5	1139.3
80°	5035.4	5535.6	5400.5	6216.8	3354.0	1788.5	1071.3	634.2
82.5°	2437.7	3060.9	3141.9	3702.1	1631.5	1052.3	247.0	138.1
85°	954.3	1476.4	1245.4	1405.4	458.2	293.0	6.0	0.0
87.5°	107.0	171.1	157.0	124.0	56.0	12.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)