

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: P960377

Luminaire Tested: **NAV-SB1C-740-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960377
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-SB1C-740-U-SLL-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 4000K, 615mA LIGHTSQUARE WITH 26 LEDS AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6200.2 lumens
Efficiency: N/A
Efficacy: 114.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 54.4
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



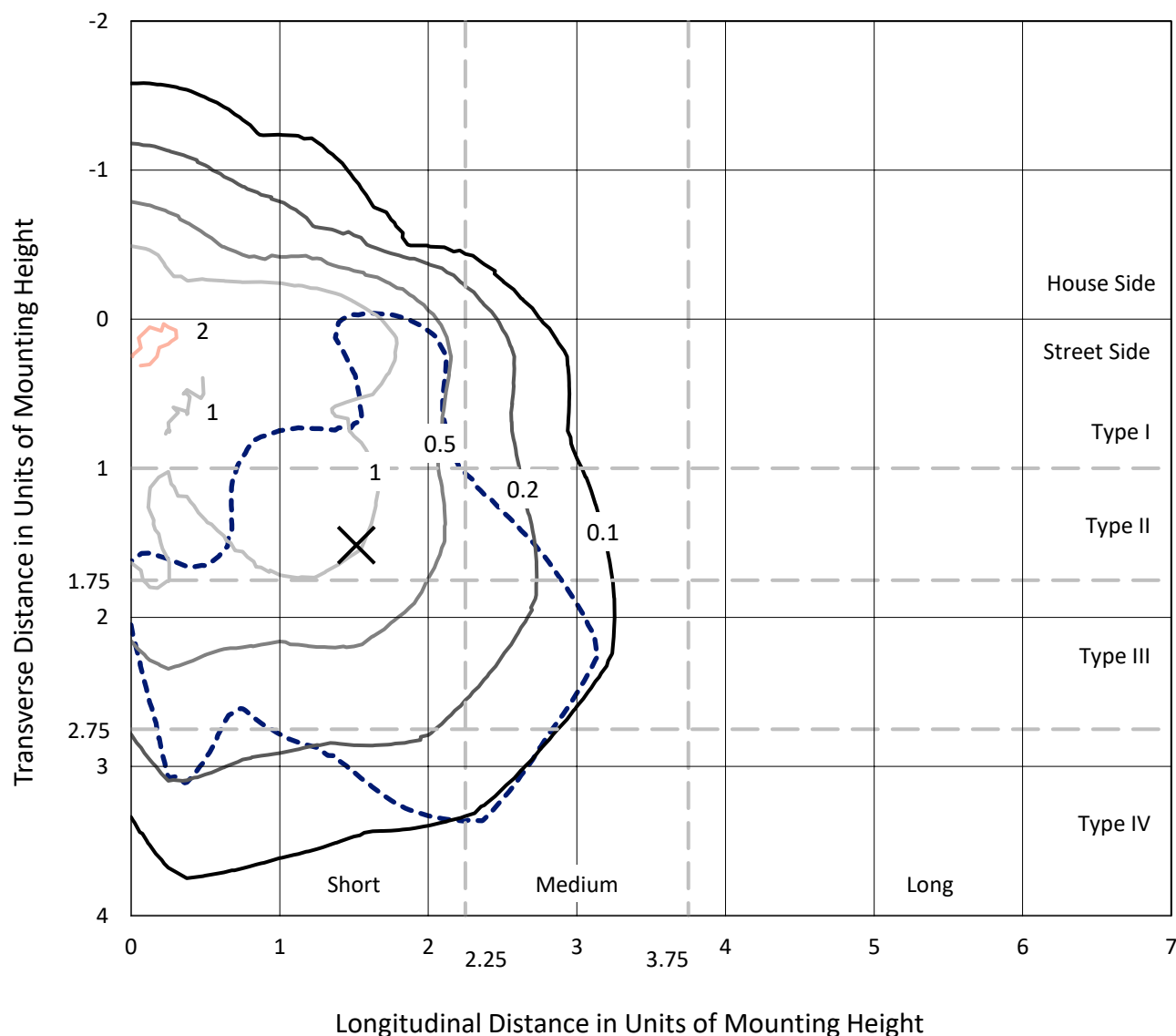
REPORT NUMBER: P960377

CATALOG NUMBER: NAV-SB1C-740-U-SLL-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

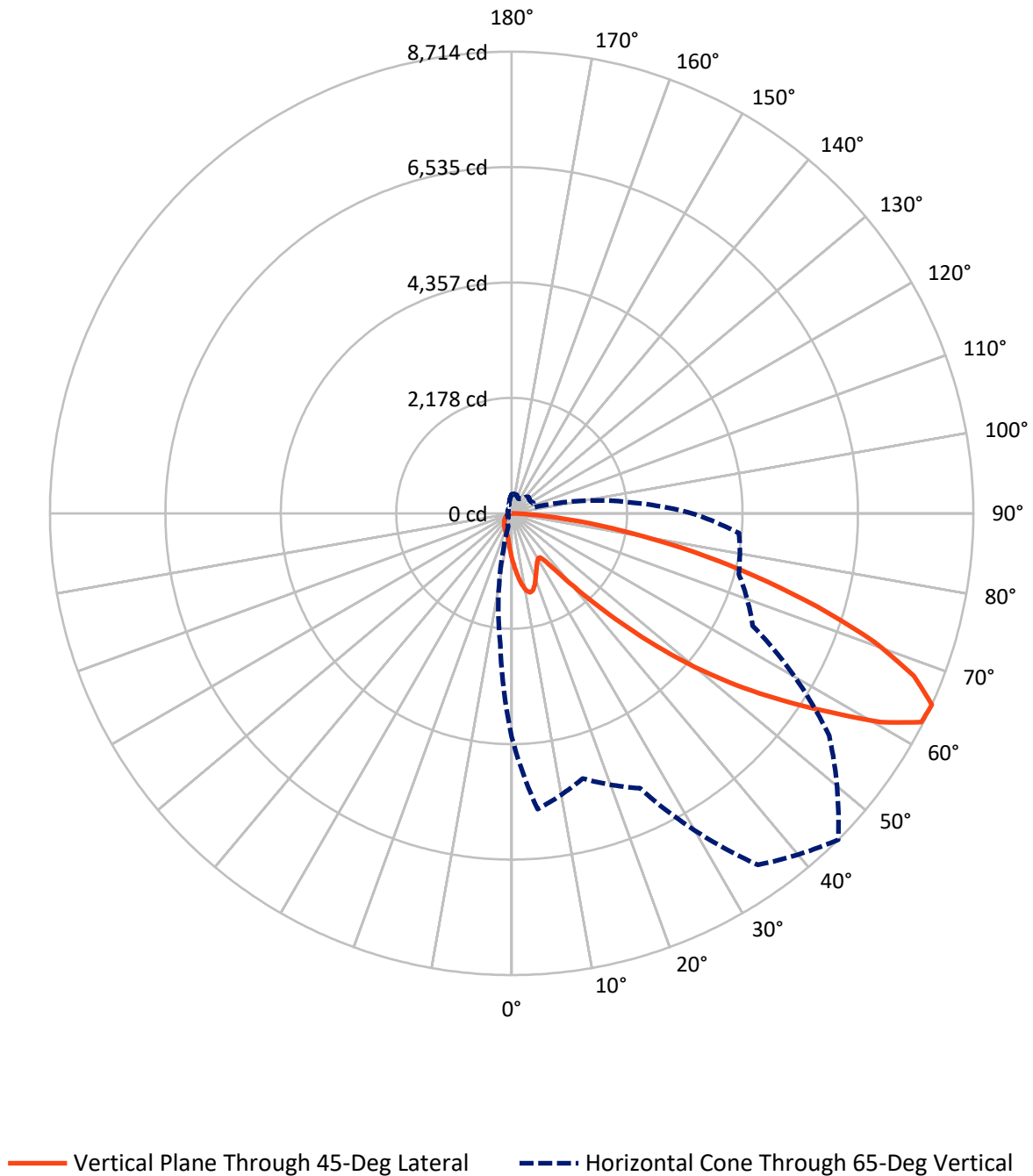


Based on 25 foot mounting height. Maximum calculated value = 2.3 fc

Type IV - Short - N/A

REPORT NUMBER: P960377
CATALOG NUMBER: NAV-SB1C-740-U-SLL-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P960377

CATALOG NUMBER: NAV-SB1C-740-U-SLL-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1232.4	0.0	1232.4
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	4967.8	0.0	4967.8
	% Fixture	80.1	0.0	80.1
Total	Lumens	6200.2	0.0	6200.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.5	1.4
10°-20°	253.4	4.1
20°-30°	373.3	6.0
30°-40°	479.6	7.7
40°-50°	775.6	12.5
50°-60°	1360.1	21.9
60°-70°	1701.9	27.4
70°-80°	994.5	16.0
80°-90°	177.4	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°	6200.2	100.0
0°-180°	6200.2	100.0

Coefficient of Utilization



REPORT NUMBER: P960377

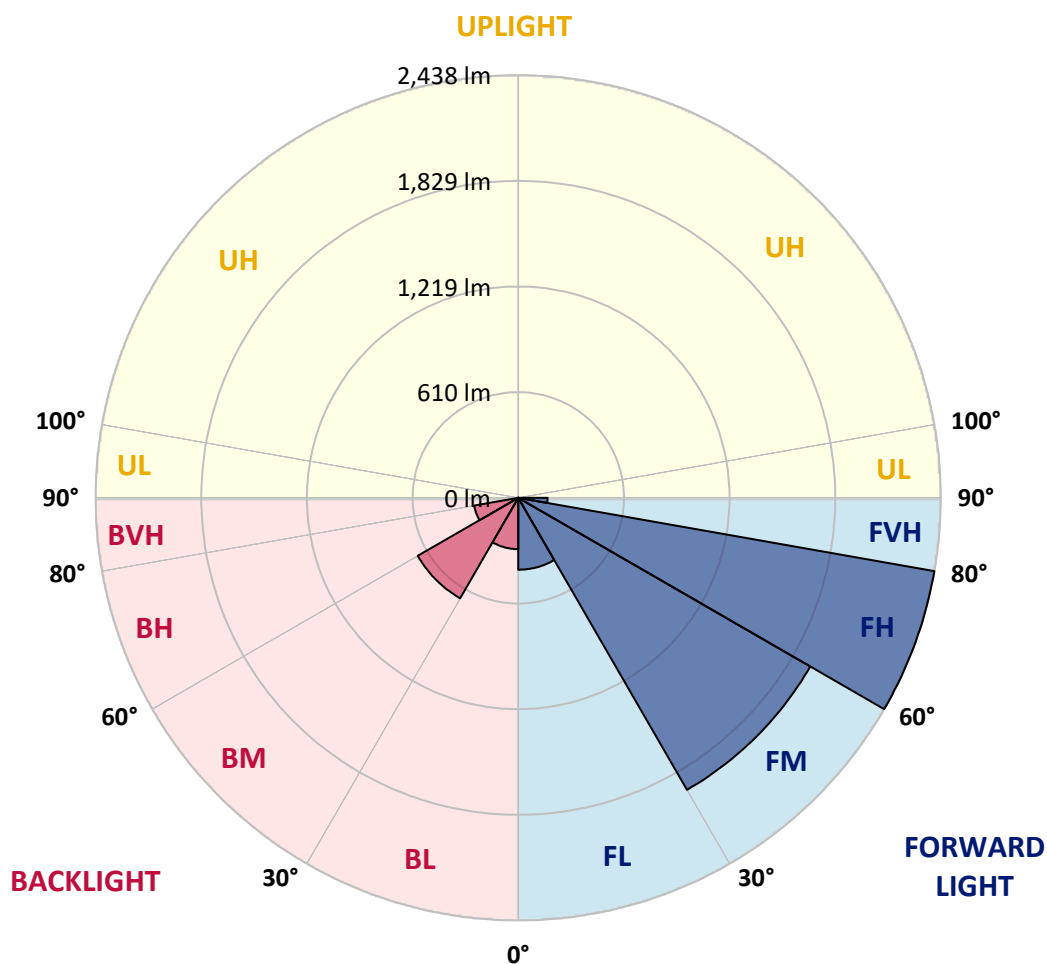
CATALOG NUMBER: NAV-SB1C-740-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	414.9	6.7			
FM	(30°-60°)	1945.7	31.4			
FH	(60°-80°)	2438.1	39.3			G2/5000
FVH	(80°-90°)	169.1	2.7			G2/225
BL	(0°-30°)	296.3	4.8	B1/500		
BM	(30°-60°)	669.6	10.8	B1/1000		
BH	(60°-80°)	258.2	4.2	B1/500		G1/500
BVH	(80°-90°)	8.3	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short



REPORT NUMBER: P960377

CATALOG NUMBER: NAV-SB1C-740-U-SLL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	858.5	858.5	858.5	858.5	858.5	858.5	858.5	858.5	858.5	858.5	858.5
2.5°	961.9	969.1	985.4	993.9	1007.2	1008.0	1008.0	996.5	996.1	972.6	970.1
5°	1075.1	1092.1	1130.6	1170.3	1178.9	1181.0	1176.7	1153.6	1136.6	1090.9	1081.1
7.5°	1187.5	1220.3	1278.8	1331.8	1348.9	1348.9	1338.6	1301.0	1266.0	1199.8	1175.1
10°	1280.5	1321.9	1401.4	1460.8	1480.4	1476.2	1455.2	1407.8	1359.6	1279.3	1246.8
12.5°	1342.0	1388.6	1475.7	1523.6	1543.6	1532.6	1508.6	1462.5	1411.6	1327.1	1290.4
15°	1372.8	1421.5	1497.1	1522.3	1516.7	1505.2	1502.2	1480.0	1441.6	1362.5	1322.4
17.5°	1386.0	1431.3	1483.9	1468.0	1421.1	1412.1	1442.0	1470.2	1460.8	1393.3	1355.7
20°	1398.4	1436.4	1452.2	1382.2	1300.2	1292.1	1349.3	1429.6	1470.6	1421.9	1387.3
22.5°	1415.5	1439.0	1406.5	1291.6	1203.2	1184.4	1247.6	1368.5	1473.6	1458.3	1423.6
25°	1439.0	1445.5	1356.2	1205.8	1116.9	1098.2	1157.1	1300.6	1468.5	1497.5	1468.0
27.5°	1467.2	1454.0	1307.9	1134.1	1048.2	1030.6	1089.6	1235.2	1454.0	1536.8	1515.9
30°	1503.9	1465.0	1260.0	1078.5	999.1	986.3	1043.0	1178.9	1436.0	1586.8	1575.2
32.5°	1541.1	1469.7	1215.6	1046.0	988.0	992.6	1039.2	1148.5	1416.3	1634.7	1640.2
35°	1581.3	1484.7	1193.8	1078.1	1080.7	1121.7	1140.8	1176.7	1413.4	1699.6	1721.4
37.5°	1635.9	1518.0	1219.9	1237.4	1326.2	1411.2	1395.4	1314.7	1448.0	1796.5	1837.1
40°	1714.5	1576.6	1333.5	1508.6	1691.0	1829.0	1768.7	1565.5	1553.9	1936.2	1996.8
42.5°	1829.0	1669.6	1535.1	1840.1	2149.3	2376.6	2215.1	1888.8	1739.3	2135.7	2213.0
45°	1998.1	1820.4	1779.0	2189.9	2714.4	3072.3	2736.6	2233.5	1999.0	2437.7	2498.3
47.5°	2232.7	2042.1	2007.6	2558.5	3401.3	3864.2	3315.0	2553.0	2294.6	2849.4	2863.4
50°	2543.9	2340.7	2224.0	2961.7	4154.2	4671.5	3892.8	2861.4	2633.2	3352.6	3336.3
52.5°	2954.9	2757.1	2476.5	3345.7	4928.7	5461.7	4473.3	3132.2	3053.6	3936.4	3903.1
55°	3515.2	3383.7	2821.6	3712.2	5702.6	6256.6	5031.2	3387.6	3608.8	4630.1	4428.5
57.5°	4210.7	4304.6	3319.3	4137.2	6398.5	7075.9	5591.6	3744.6	4329.8	5405.7	4733.4
60°	4659.1	5529.2	4272.2	4765.5	7189.0	8002.3	6359.5	4423.8	5087.6	5683.8	4675.3
62.5°	4550.7	5918.8	5413.4	5567.7	7916.0	8675.9	7112.2	5105.9	5230.2	5274.2	4227.7
65°	4217.9	5604.4	5180.7	5723.6	8100.1	8713.9	7313.4	5017.9	4436.6	4305.9	3398.3
67.5°	3760.0	5231.5	4627.6	5310.1	7767.3	8182.6	6938.7	4438.8	3428.6	3231.2	2465.4
70°	3265.9	4818.9	4264.5	4846.2	7133.1	7256.5	6301.9	3904.0	2521.8	2182.2	1582.1
72.5°	2796.8	4389.2	4015.8	4370.8	6286.9	6031.5	5472.8	3431.2	1836.2	1574.0	1124.6
75°	2317.2	3755.3	3661.8	3806.1	5174.3	4751.0	4547.2	2840.9	1441.1	1138.8	776.1
77.5°	1788.0	2934.4	3149.6	3048.0	3642.1	3529.0	3524.7	2134.8	1052.9	759.8	486.5
80°	1223.7	2045.1	2460.7	2150.1	2363.8	2306.0	2654.6	1432.1	763.7	457.5	270.8
82.5°	719.2	1245.1	1712.8	1040.9	1307.0	1341.6	1580.9	696.7	449.4	105.5	58.9
85°	291.7	491.6	669.7	407.4	630.5	531.8	600.1	195.7	125.2	2.6	0.0
87.5°	73.5	157.2	110.2	45.7	73.1	67.0	53.0	23.9	5.1	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

REPORT NUMBER: P960377

CATALOG NUMBER: NAV-SB1C-740-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	858.5	858.5	858.5	858.5	858.5	858.5	858.5	858.5	858.5	858.5	858.5
2.5°	953.4	943.5	919.2	894.8	875.1	848.7	831.2	810.3	790.2	772.2	768.9
5°	1054.1	1021.7	977.2	936.7	895.2	855.2	815.4	773.6	735.1	711.6	696.7
7.5°	1136.2	1078.9	1020.0	968.3	918.3	871.4	818.8	767.9	707.8	675.7	646.7
10°	1197.2	1122.1	1044.8	985.4	935.0	889.3	844.9	793.7	721.0	680.8	637.2
12.5°	1237.4	1148.1	1057.6	989.6	933.3	897.8	878.2	858.1	786.0	738.9	675.7
15°	1265.2	1166.4	1066.5	979.8	910.6	884.6	904.3	927.3	881.2	827.0	744.5
17.5°	1295.5	1190.4	1070.4	953.4	866.6	855.6	906.4	959.8	957.7	903.8	823.1
20°	1327.5	1211.3	1067.8	910.6	813.2	823.1	888.0	950.0	976.0	947.0	875.1
22.5°	1360.4	1231.4	1058.0	855.2	763.3	794.1	859.0	913.2	943.9	935.0	880.3
25°	1401.9	1259.6	1043.4	795.3	721.8	764.5	825.2	869.2	890.5	890.1	852.6
27.5°	1451.4	1297.2	1035.8	747.0	692.4	731.2	785.0	824.4	839.3	839.3	809.4
30°	1509.0	1341.6	1027.3	715.4	675.3	696.7	738.5	776.9	791.9	791.9	766.7
32.5°	1573.2	1384.4	1006.8	696.2	662.5	662.9	689.4	724.4	742.3	744.9	726.9
35°	1650.0	1430.1	961.9	680.8	647.5	630.1	642.9	671.9	693.2	698.7	687.7
37.5°	1750.8	1485.9	897.8	658.3	624.4	595.4	598.4	620.6	644.1	652.6	645.4
40°	1886.2	1551.7	831.2	625.8	592.0	557.4	556.2	572.4	595.4	604.9	601.0
42.5°	2065.2	1630.8	767.5	594.6	552.7	517.2	515.2	528.0	548.0	557.8	556.2
45°	2294.2	1727.7	712.9	570.2	514.2	479.3	478.4	489.0	506.6	516.8	514.7
47.5°	2612.3	1824.7	675.7	557.4	483.9	448.0	449.8	459.2	475.0	482.3	479.3
50°	3027.0	1854.2	656.9	557.4	467.7	420.2	428.9	436.5	448.4	452.7	449.0
52.5°	3425.1	1756.7	639.8	560.8	469.9	396.8	415.1	420.8	431.0	432.7	427.1
55°	3620.4	1510.3	616.3	561.7	483.1	376.7	404.1	414.3	418.2	417.7	408.4
57.5°	3553.3	1221.2	576.7	558.2	492.1	363.9	390.4	410.0	412.6	408.8	391.2
60°	3317.9	899.1	546.3	533.1	488.6	360.1	369.5	400.7	404.5	399.3	370.7
62.5°	2923.3	624.0	522.9	477.5	473.7	358.7	336.6	380.2	389.5	382.3	340.4
65°	2301.3	440.7	450.2	418.6	441.3	352.0	302.4	355.4	368.2	357.1	298.2
67.5°	1557.3	318.3	364.8	379.2	388.7	336.6	277.7	327.2	344.3	329.7	249.0
70°	841.0	223.3	240.9	319.5	330.2	310.1	255.4	298.6	318.3	302.4	202.8
72.5°	496.7	160.6	168.7	256.7	275.1	273.0	230.6	265.3	289.2	270.4	164.9
75°	273.8	108.4	120.4	186.2	223.3	210.5	198.2	224.7	249.0	230.6	127.3
77.5°	122.6	64.9	83.7	122.2	175.6	144.3	153.3	175.2	197.7	178.6	85.0
80°	47.5	36.3	55.6	66.6	127.7	79.8	98.7	128.9	145.2	129.9	51.7
82.5°	5.9	16.2	23.9	26.0	74.3	42.3	57.2	81.2	79.8	69.2	26.0
85°	0.0	3.0	3.4	1.7	32.1	15.4	18.8	26.4	24.8	18.8	2.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	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

REPORT NUMBER: P960377

CATALOG NUMBER: NAV-SB1C-740-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	858.5	858.5	858.5	858.5	858.5	858.5	858.5	858.5	858.5	858.5	858.5
2.5°	747.9	732.6	724.9	718.4	724.4	727.9	727.9	742.3	750.9	754.3	778.3
5°	659.1	630.5	611.2	599.7	603.5	607.8	612.5	630.9	643.3	651.4	688.5
7.5°	589.0	545.4	518.5	504.4	506.6	509.5	513.4	531.4	543.8	554.4	595.8
10°	554.4	492.9	457.5	440.3	437.4	435.6	434.4	445.1	454.5	463.0	504.0
12.5°	556.2	470.3	427.1	406.2	397.2	386.9	378.8	380.6	386.5	397.2	423.3
15°	577.9	463.0	411.3	385.3	370.3	358.3	348.5	346.4	348.5	350.2	366.4
17.5°	607.4	462.2	397.7	365.2	349.8	340.0	331.1	328.0	328.5	330.6	334.9
20°	630.9	459.6	382.3	345.9	332.3	323.8	314.8	311.8	312.6	313.1	317.8
22.5°	643.3	455.7	365.2	326.8	315.2	306.7	298.6	298.2	298.2	300.7	304.1
25°	643.3	447.6	349.8	308.4	298.2	290.5	280.6	282.3	283.2	286.6	291.7
27.5°	627.9	432.2	337.4	292.5	281.9	274.2	265.3	267.4	268.7	272.5	278.9
30°	608.2	413.9	323.4	277.7	265.3	259.7	252.0	252.9	254.6	258.8	266.1
32.5°	587.3	392.1	311.8	262.7	250.3	246.0	237.5	238.7	240.5	245.2	253.3
35°	564.3	366.4	298.2	249.0	236.7	233.2	223.3	224.3	226.8	232.0	240.1
37.5°	539.9	345.5	284.4	235.7	222.9	219.6	209.3	210.1	213.1	219.1	226.8
40°	516.0	325.0	270.0	221.7	208.9	205.9	194.7	195.7	199.1	205.4	213.6
42.5°	489.9	309.2	251.1	207.2	193.5	190.5	180.3	181.5	185.4	191.8	199.9
45°	458.7	299.0	230.2	193.5	178.1	175.2	165.7	168.3	172.6	179.0	187.5
47.5°	426.7	294.7	212.7	179.0	162.4	159.8	152.0	156.3	161.0	166.2	175.6
50°	396.0	289.2	194.7	165.3	148.6	146.1	140.9	146.5	151.2	155.9	164.9
52.5°	360.9	277.2	178.6	153.3	137.1	136.2	133.7	138.8	143.1	147.4	155.1
55°	324.6	258.0	164.4	142.7	127.3	128.1	126.9	131.1	134.6	138.4	145.2
57.5°	293.0	233.6	153.3	131.1	118.7	121.3	119.6	121.8	123.8	128.5	134.1
60°	261.0	204.6	140.9	117.5	110.2	113.2	108.4	108.0	109.0	110.2	120.4
62.5°	217.8	174.2	125.6	105.5	100.8	102.1	93.1	86.3	86.3	87.5	102.9
65°	175.2	146.1	108.4	91.8	87.9	87.1	74.3	64.9	64.1	68.0	81.2
67.5°	143.9	121.3	91.4	76.5	73.9	74.7	65.4	56.0	55.1	59.3	69.2
70°	119.2	97.8	73.1	58.9	61.5	65.4	56.0	46.9	45.7	49.5	58.9
72.5°	94.8	76.5	56.0	43.6	50.8	55.6	45.7	37.2	36.3	39.8	48.7
75°	69.6	54.6	38.0	31.6	39.3	43.6	33.3	26.4	25.2	28.2	37.2
77.5°	43.2	30.7	23.9	18.8	27.0	29.0	17.5	15.4	15.0	17.1	23.5
80°	20.1	13.2	11.6	6.5	9.8	11.6	7.3	8.1	8.5	10.2	14.6
82.5°	5.5	2.2	0.4	0.0	0.0	3.4	1.7	3.4	4.3	6.5	9.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.2	3.9	6.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	3.4
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: P960377

CATALOG NUMBER: NAV-SB1C-740-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	858.5	858.5	858.5	858.5	858.5	858.5	858.5	858.5
2.5°	796.2	813.2	840.6	868.8	896.6	924.8	952.1	961.9
5°	722.3	761.6	815.8	873.9	933.7	994.4	1049.9	1075.1
7.5°	639.8	696.2	777.8	868.8	964.0	1059.2	1146.9	1187.5
10°	551.9	623.2	716.3	839.3	976.0	1107.5	1227.9	1280.5
12.5°	468.1	542.8	645.9	793.1	966.6	1135.3	1280.1	1342.0
15°	398.1	464.3	575.3	738.5	936.2	1137.0	1304.9	1372.8
17.5°	345.5	388.7	503.6	677.8	896.6	1121.2	1313.4	1386.0
20°	319.5	331.5	410.5	600.1	859.4	1106.3	1321.9	1398.4
22.5°	304.1	307.1	335.7	499.8	815.0	1101.6	1336.9	1415.5
25°	291.7	292.5	300.2	396.0	747.0	1098.6	1360.0	1439.0
27.5°	279.3	279.3	283.6	319.1	654.8	1085.8	1389.9	1467.2
30°	266.9	266.9	270.0	282.3	546.7	1060.6	1425.8	1503.9
32.5°	254.1	254.1	256.7	265.7	436.5	1029.0	1458.7	1541.1
35°	241.3	240.5	243.8	253.3	347.3	988.8	1491.6	1581.3
37.5°	227.7	227.2	230.6	241.3	299.8	942.3	1516.3	1635.9
40°	213.1	213.1	217.0	228.5	286.2	883.8	1555.6	1714.5
42.5°	199.9	199.1	203.4	217.4	275.9	827.8	1626.1	1829.0
45°	187.1	185.4	189.2	206.7	258.0	808.1	1757.7	1998.1
47.5°	175.2	170.9	174.2	193.9	241.8	881.6	1972.9	2232.7
50°	165.3	157.2	160.2	181.1	229.4	1040.9	2252.2	2543.9
52.5°	155.1	144.3	146.1	165.3	218.2	1192.6	2555.1	2954.9
55°	144.3	132.4	133.2	149.4	202.4	1215.1	2850.6	3515.2
57.5°	132.4	121.3	121.3	135.0	191.0	1053.3	3077.9	4210.7
60°	119.2	111.9	109.8	123.4	201.2	743.2	3104.4	4659.1
62.5°	104.7	100.8	97.8	112.3	208.9	440.3	2891.2	4550.7
65°	87.9	87.1	85.0	123.4	176.0	260.1	2482.0	4217.9
67.5°	73.9	72.6	72.6	129.5	133.7	163.6	1939.2	3760.0
70°	63.7	58.9	58.9	97.8	81.2	113.2	1354.0	3265.9
72.5°	53.4	48.3	44.9	78.2	60.7	82.8	846.1	2796.8
75°	42.7	38.8	34.6	51.7	45.3	62.8	491.6	2317.2
77.5°	30.7	29.0	24.4	38.0	32.9	45.3	292.5	1788.0
80°	15.8	16.2	15.4	21.8	22.2	30.7	166.6	1223.7
82.5°	9.4	7.3	8.1	10.7	12.8	17.5	62.8	719.2
85°	5.9	3.9	3.9	5.1	6.5	6.9	19.3	291.7
87.5°	3.0	1.3	1.7	2.6	2.2	1.7	0.8	73.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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