

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: P959975

Luminaire Tested: **NAV-SB1B-830-U-SLL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959975
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1B-830-U-SLL
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 450mA LIGHTSQUARE WITH 26 LEDS AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5169.1 lumens
Efficiency: N/A
Efficacy: 129.9 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): 39.8
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



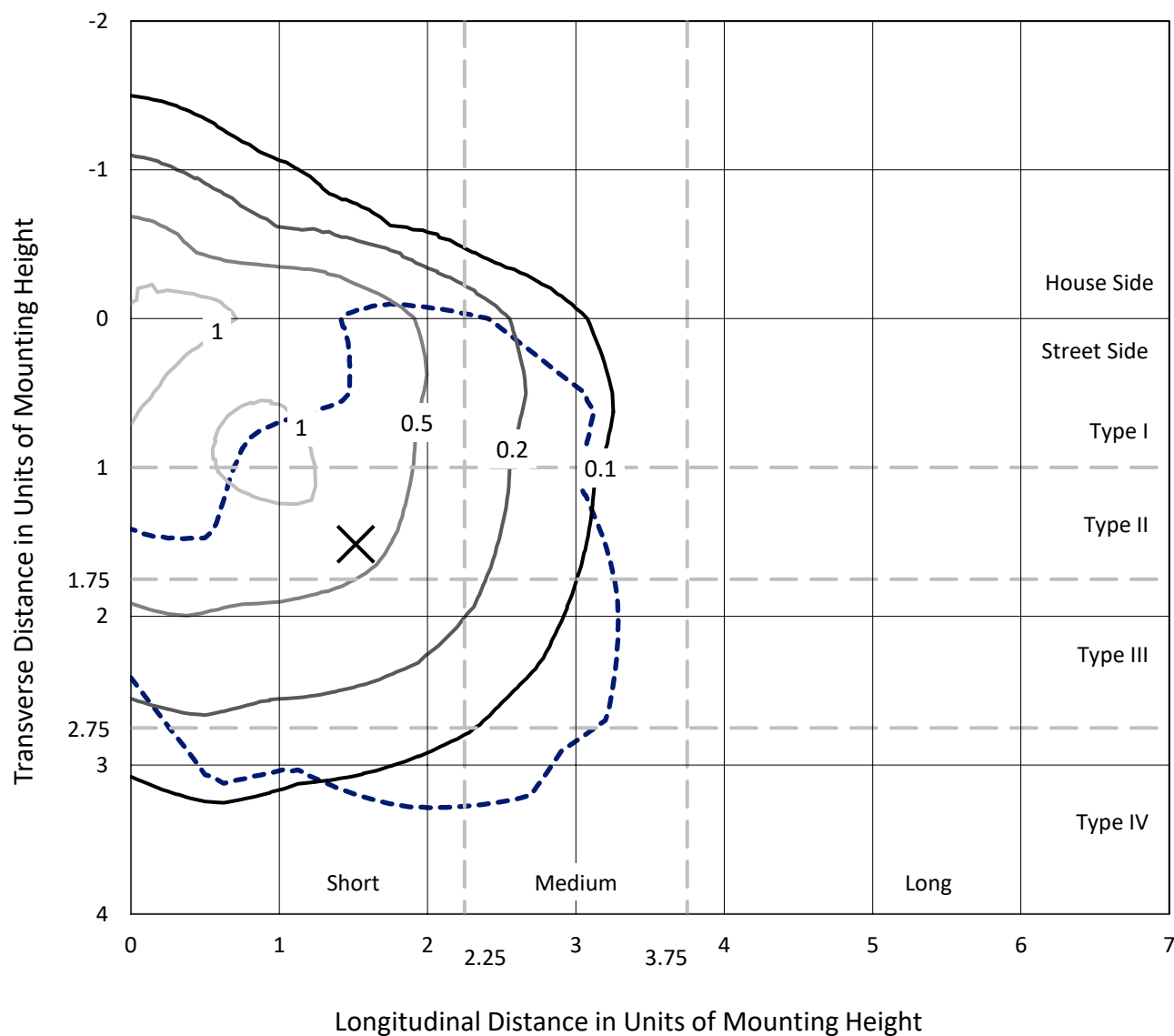
REPORT NUMBER: P959975

CATALOG NUMBER: NAV-SB1B-830-U-SLL

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

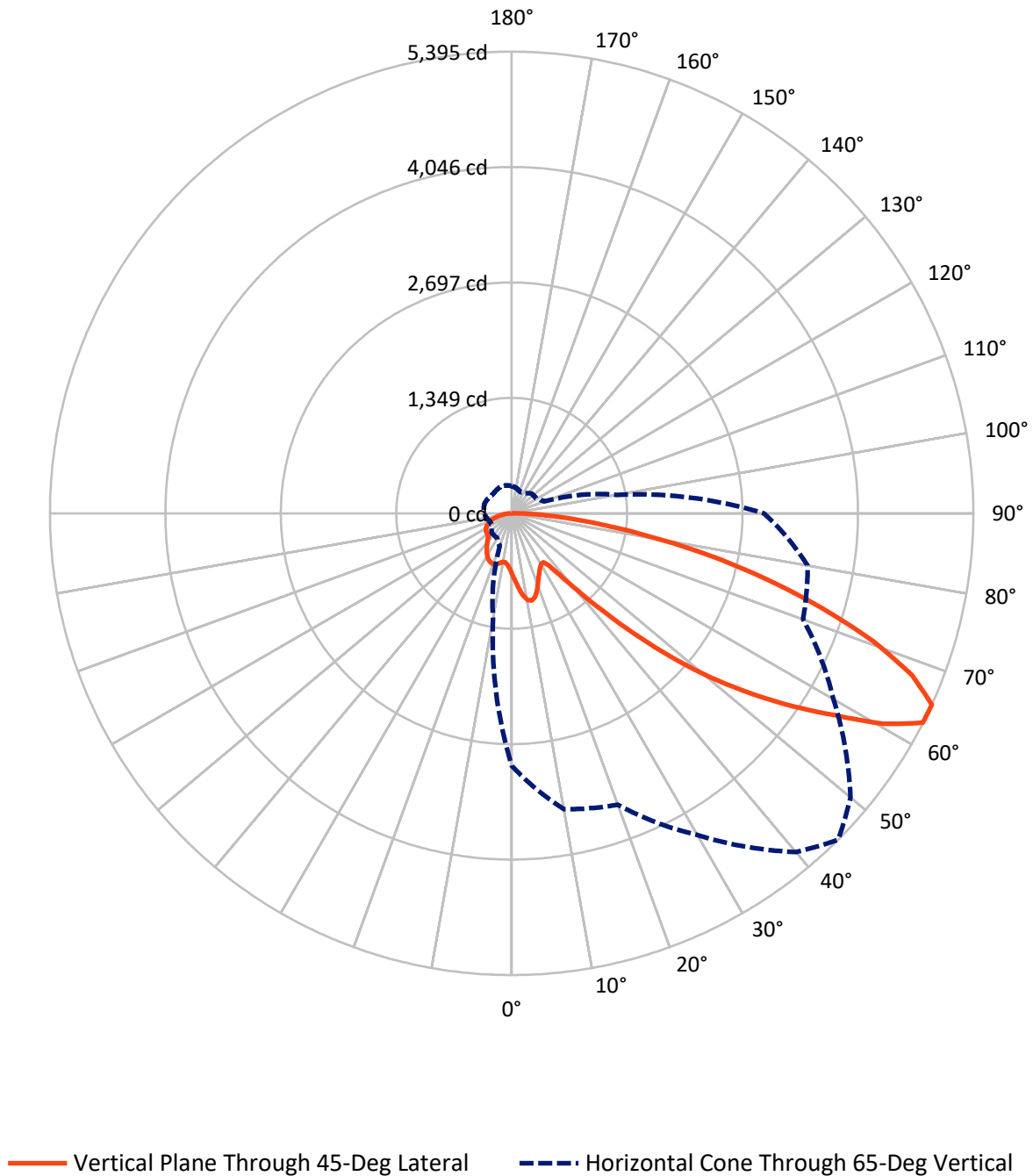


Based on 25 foot mounting height. Maximum calculated value = 1.6 fc

Type IV - Short - N/A

REPORT NUMBER: P959975
CATALOG NUMBER: NAV-SB1B-830-U-SLL

Luminous Intensity Polar Plot



REPORT NUMBER: P959975

CATALOG NUMBER: NAV-SB1B-830-U-SLL

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1313.7	0.0	1313.7
	% Fixture	25.4	0.0	25.4
Street Side	Lumens	3855.4	0.0	3855.4
	% Fixture	74.6	0.0	74.6
Total	Lumens	5169.1	0.0	5169.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.5	1.4
10°-20°	221.3	4.3
20°-30°	341.9	6.6
30°-40°	433.3	8.4
40°-50°	653.5	12.6
50°-60°	1055.8	20.4
60°-70°	1316.2	25.5
70°-80°	863.1	16.7
80°-90°	213.4	4.1
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°	5169.1	100.0
0°-180°	5169.1	100.0

Coefficient of Utilization



REPORT NUMBER: P959975

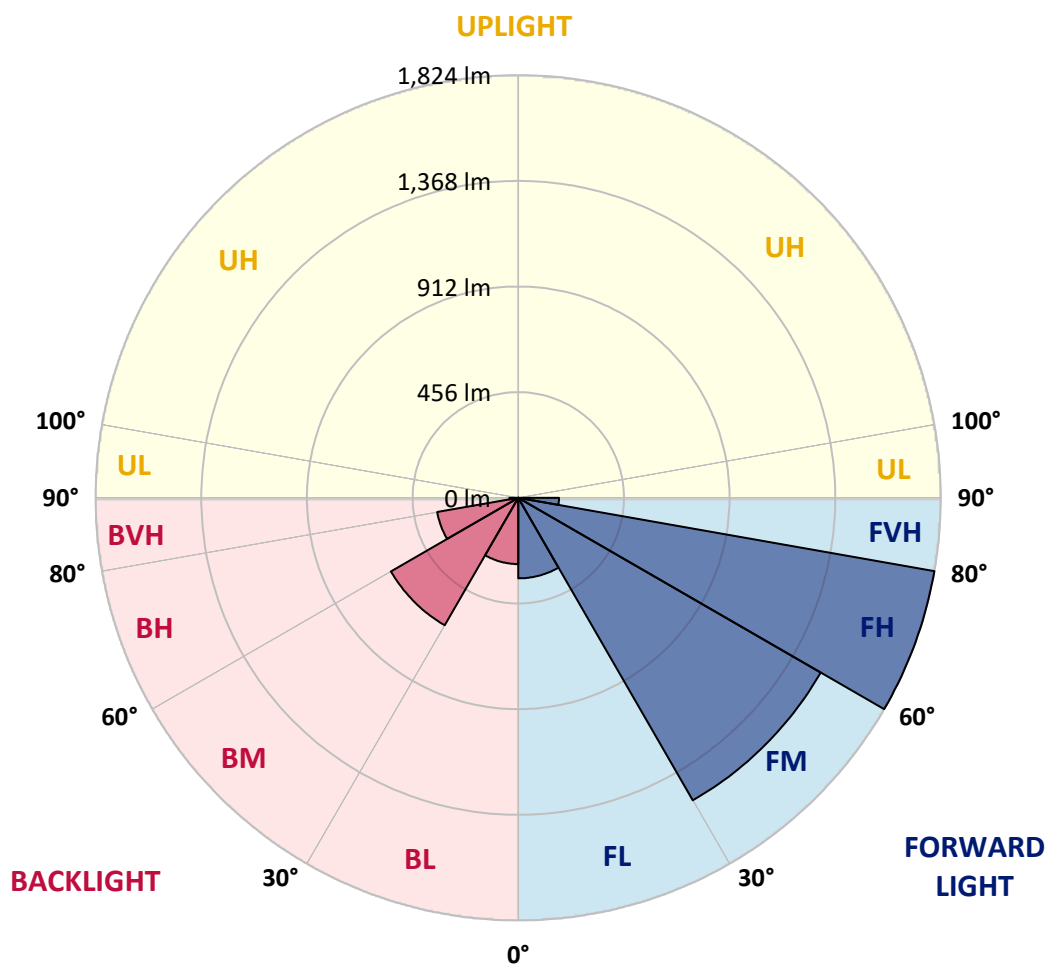
CATALOG NUMBER: NAV-SB1B-830-U-SLL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	347.7	6.7			
FM	(30°-60°)	1507.7	29.2			
FH	(60°-80°)	1824.2	35.3			G2/5000
FVH	(80°-90°)	175.8	3.4			G2/225
BL	(0°-30°)	286.1	5.5	B1/500		
BM	(30°-60°)	634.9	12.3	B1/1000		
BH	(60°-80°)	355.2	6.9	B1/500		G1/500
BVH	(80°-90°)	37.6	0.7			G1/100
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: P959975

CATALOG NUMBER: NAV-SB1B-830-U-SLL

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	710.8	710.8	710.8	710.8	710.8	710.8	710.8	710.8	710.8	710.8	710.8
2.5°	764.3	767.3	770.2	774.3	778.4	780.8	783.3	784.5	785.8	785.3	785.8
5°	821.9	832.1	842.2	852.3	862.3	867.8	873.2	876.5	879.9	882.3	879.9
7.5°	879.8	896.3	912.7	927.5	942.3	951.2	960.1	964.9	969.8	972.1	969.8
10°	924.0	943.5	963.0	980.4	997.7	1008.3	1018.7	1023.5	1028.2	1029.9	1028.2
12.5°	951.2	972.3	993.4	1009.1	1024.8	1032.4	1040.1	1042.6	1045.2	1045.5	1045.2
15°	967.7	985.9	1004.1	1014.0	1023.9	1024.2	1024.4	1021.7	1019.0	1015.8	1019.0
17.5°	977.0	989.3	1001.6	1001.8	1001.9	990.9	979.9	969.8	959.6	952.4	959.6
20°	987.2	991.5	995.8	982.9	970.0	945.6	921.2	903.3	885.6	874.7	885.6
22.5°	999.1	993.4	987.9	961.0	934.2	898.3	862.4	840.2	818.1	806.0	818.1
25°	1014.3	996.6	978.9	938.2	897.4	853.8	810.3	787.0	763.6	752.2	763.6
27.5°	1035.0	1003.4	971.7	917.7	863.8	815.5	767.2	744.3	721.3	710.5	721.3
30°	1063.0	1015.8	968.5	902.1	835.7	785.4	735.0	713.8	692.5	682.4	692.5
32.5°	1096.0	1031.4	966.7	891.4	816.3	769.1	721.8	705.0	688.3	681.1	688.3
35°	1136.1	1057.0	977.7	899.4	821.1	788.3	755.4	751.5	747.6	747.0	747.6
37.5°	1203.7	1110.5	1017.3	946.1	874.9	872.8	870.6	888.5	906.3	915.6	906.3
40°	1305.6	1204.4	1103.0	1050.1	997.1	1034.5	1071.8	1115.2	1158.6	1180.2	1158.6
42.5°	1440.9	1340.4	1239.8	1209.4	1178.9	1260.3	1341.9	1420.8	1499.7	1546.0	1499.7
45°	1608.0	1517.7	1427.4	1413.9	1400.5	1531.0	1661.6	1791.2	1920.8	1999.6	1920.8
47.5°	1816.9	1729.1	1641.2	1638.5	1635.8	1824.1	2012.4	2202.2	2391.9	2503.4	2391.9
50°	2090.8	1982.2	1873.8	1874.2	1874.7	2117.4	2360.2	2610.7	2861.1	3012.6	2861.1
52.5°	2405.2	2273.8	2142.4	2129.0	2115.7	2405.7	2695.6	3005.6	3315.5	3497.0	3315.5
55°	2739.8	2610.0	2480.1	2428.3	2376.6	2699.2	3022.0	3391.4	3760.8	3976.7	3760.8
57.5°	3044.1	2973.5	2902.8	2798.9	2695.0	3020.9	3346.7	3765.1	4183.6	4451.3	4183.6
60°	3228.1	3338.0	3447.8	3318.7	3189.8	3498.1	3806.5	4254.6	4702.6	4992.0	4702.6
62.5°	3134.8	3434.8	3734.9	3720.3	3705.8	3988.3	4270.8	4697.1	5123.3	5390.7	5123.3
65°	2947.8	3229.4	3511.0	3566.7	3622.5	3981.4	4340.5	4753.7	5167.0	5394.8	5167.0
67.5°	2697.3	2965.1	3233.0	3259.1	3285.1	3659.2	4033.3	4448.3	4863.4	5041.9	4863.4
70°	2396.2	2687.5	2979.0	2990.6	3002.3	3336.8	3671.3	4028.6	4385.8	4484.9	4385.8
72.5°	2037.6	2372.0	2706.2	2714.6	2723.0	2984.7	3246.5	3514.0	3781.5	3791.6	3781.5
75°	1583.8	1929.9	2275.9	2307.0	2338.0	2541.7	2745.3	2933.5	3121.9	3071.4	3121.9
77.5°	1131.6	1454.7	1777.7	1822.1	1866.6	2021.4	2176.2	2309.7	2443.3	2356.6	2443.3
80°	740.7	1012.4	1284.1	1339.4	1394.6	1511.6	1628.4	1698.5	1768.6	1629.1	1768.6
82.5°	430.5	616.3	802.1	863.9	925.6	1006.0	1086.5	1115.8	1145.0	1035.4	1145.0
85°	189.4	288.0	386.6	439.1	491.6	557.7	623.8	640.4	657.0	569.3	657.0
87.5°	58.6	91.7	124.9	154.3	183.5	216.6	249.6	251.0	252.5	212.0	252.5
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: P959975

CATALOG NUMBER: NAV-SB1B-830-U-SLL

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	710.8	710.8	710.8	710.8	710.8	710.8	710.8	710.8	710.8	710.8	710.8
2.5°	784.5	783.3	780.8	778.4	774.3	770.2	767.3	764.3	758.5	752.7	746.4
5°	876.5	873.2	867.8	862.3	852.3	842.2	832.1	821.9	809.0	796.0	783.1
7.5°	964.9	960.1	951.2	942.3	927.5	912.7	896.3	879.8	858.3	837.0	817.2
10°	1023.5	1018.7	1008.3	997.7	980.4	963.0	943.5	924.0	897.1	870.0	843.9
12.5°	1042.6	1040.1	1032.4	1024.8	1009.1	993.4	972.3	951.2	921.5	891.9	862.2
15°	1021.7	1024.4	1024.2	1023.9	1014.0	1004.1	985.9	967.7	936.7	905.8	873.7
17.5°	969.8	979.9	990.9	1001.9	1001.8	1001.6	989.3	977.0	945.6	914.2	879.2
20°	903.3	921.2	945.6	970.0	982.9	995.8	991.5	987.2	954.6	922.0	883.6
22.5°	840.2	862.4	898.3	934.2	961.0	987.9	993.4	999.1	965.8	932.4	889.3
25°	787.0	810.3	853.8	897.4	938.2	978.9	996.6	1014.3	981.6	949.0	899.7
27.5°	744.3	767.2	815.5	863.8	917.7	971.7	1003.4	1035.0	1004.0	972.7	916.1
30°	713.8	735.0	785.4	835.7	902.1	968.5	1015.8	1063.0	1032.9	1002.9	937.4
32.5°	705.0	721.8	769.1	816.3	891.4	966.7	1031.4	1096.0	1066.2	1036.5	959.4
35°	751.5	755.4	788.3	821.1	899.4	977.7	1057.0	1136.1	1107.6	1079.0	984.6
37.5°	888.5	870.6	872.8	874.9	946.1	1017.3	1110.5	1203.7	1167.3	1130.9	1012.9
40°	1115.2	1071.8	1034.5	997.1	1050.1	1103.0	1204.4	1305.6	1252.7	1199.7	1048.7
42.5°	1420.8	1341.9	1260.3	1178.9	1209.4	1239.8	1340.4	1440.9	1364.4	1287.9	1095.6
45°	1791.2	1661.6	1531.0	1400.5	1413.9	1427.4	1517.7	1608.0	1504.8	1401.6	1157.3
47.5°	2202.2	2012.4	1824.1	1635.8	1638.5	1641.2	1729.1	1816.9	1671.7	1526.3	1223.0
50°	2610.7	2360.2	2117.4	1874.7	1874.2	1873.8	1982.2	2090.8	1871.8	1652.7	1284.0
52.5°	3005.6	2695.6	2405.7	2115.7	2129.0	2142.4	2273.8	2405.2	2081.9	1758.7	1323.6
55°	3391.4	3022.0	2699.2	2376.6	2428.3	2480.1	2610.0	2739.8	2268.2	1796.7	1314.9
57.5°	3765.1	3346.7	3020.9	2695.0	2798.9	2902.8	2973.5	3044.1	2400.3	1756.4	1253.5
60°	4254.6	3806.5	3498.1	3189.8	3318.7	3447.8	3338.0	3228.1	2433.4	1638.5	1139.2
62.5°	4697.1	4270.8	3988.3	3705.8	3720.3	3734.9	3434.8	3134.8	2294.4	1454.0	984.6
65°	4753.7	4340.5	3981.4	3622.5	3566.7	3511.0	3229.4	2947.8	2097.8	1247.7	826.9
67.5°	4448.3	4033.3	3659.2	3285.1	3259.1	3233.0	2965.1	2697.3	1863.8	1030.2	672.4
70°	4028.6	3671.3	3336.8	3002.3	2990.6	2979.0	2687.5	2396.2	1608.4	820.6	529.4
72.5°	3514.0	3246.5	2984.7	2723.0	2714.6	2706.2	2372.0	2037.6	1331.7	625.7	404.8
75°	2933.5	2745.3	2541.7	2338.0	2307.0	2275.9	1929.9	1583.8	1014.3	444.8	293.8
77.5°	2309.7	2176.2	2021.4	1866.6	1822.1	1777.7	1454.7	1131.6	709.9	288.2	199.1
80°	1698.5	1628.4	1511.6	1394.6	1339.4	1284.1	1012.4	740.7	457.4	174.1	128.2
82.5°	1115.8	1086.5	1006.0	925.6	863.9	802.1	616.3	430.5	264.8	98.9	78.9
85°	640.4	623.8	557.7	491.6	439.1	386.6	288.0	189.4	119.1	48.8	42.1
87.5°	251.0	249.6	216.6	183.5	154.3	124.9	91.7	58.6	39.1	19.4	17.5
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: P959975

CATALOG NUMBER: NAV-SB1B-830-U-SLL

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	710.8	710.8	710.8	710.8	710.8	710.8	710.8	710.8	710.8	710.8	710.8
2.5°	740.2	733.9	727.6	721.6	715.7	709.8	703.4	698.1	692.9	688.2	683.5
5°	770.2	757.2	744.3	732.1	720.0	708.5	697.2	687.3	677.4	669.1	660.8
7.5°	797.6	778.3	759.1	742.1	725.2	709.6	694.9	681.7	668.6	657.7	646.9
10°	817.8	794.5	771.1	751.1	731.0	711.8	696.0	682.1	668.3	657.4	646.5
12.5°	832.7	805.1	777.7	754.9	732.3	712.1	697.4	686.0	674.8	667.5	660.3
15°	841.6	810.0	778.2	751.9	725.7	703.3	691.6	686.1	680.7	681.7	682.6
17.5°	844.2	807.4	770.6	739.0	707.5	681.1	673.8	675.8	677.8	689.7	701.6
20°	845.0	800.4	755.8	716.7	677.5	646.9	644.9	654.2	663.5	684.1	704.8
22.5°	846.1	791.8	737.6	690.4	643.4	608.3	612.1	625.9	639.6	663.1	686.7
25°	850.4	783.4	716.4	661.2	606.1	570.2	580.3	596.1	611.9	633.1	654.4
27.5°	859.5	777.8	696.1	634.5	572.9	540.2	552.5	567.7	583.0	600.4	617.9
30°	871.8	775.1	678.3	612.1	545.8	518.3	528.0	540.1	552.3	566.7	581.2
32.5°	882.4	771.8	661.2	592.8	524.4	502.2	506.6	513.7	520.9	532.5	544.0
35°	890.2	765.7	641.1	573.8	506.5	488.1	486.4	488.3	490.3	499.1	507.9
37.5°	894.8	755.1	615.4	551.6	487.7	471.6	465.1	462.9	460.7	467.1	473.3
40°	897.8	740.6	583.4	524.9	466.4	451.8	441.9	437.0	431.9	436.5	441.1
42.5°	903.3	725.6	547.9	495.6	443.2	429.7	417.2	410.6	404.1	407.7	411.5
45°	913.1	711.7	510.2	464.3	418.4	404.8	392.7	386.2	379.9	383.0	386.1
47.5°	919.7	700.2	480.5	439.6	398.7	381.2	370.7	365.4	360.1	363.0	365.9
50°	915.3	687.6	459.8	423.2	386.7	363.6	351.5	346.7	341.9	346.6	351.2
52.5°	888.5	666.4	444.3	412.5	380.6	354.0	337.0	332.4	327.7	334.7	341.5
55°	833.0	631.3	429.6	404.7	379.8	355.0	329.4	322.1	314.6	324.4	334.2
57.5°	750.5	581.7	413.0	395.3	377.7	356.0	324.8	314.1	303.2	313.8	324.3
60°	639.8	517.4	395.0	381.2	367.4	352.9	320.5	306.6	292.5	301.8	311.0
62.5°	515.2	440.4	365.7	356.5	347.4	345.5	315.5	298.0	280.5	286.4	292.2
65°	406.1	371.2	336.3	332.0	327.6	327.9	304.9	286.4	267.7	270.0	272.2
67.5°	314.6	304.6	294.7	297.1	299.5	298.9	286.1	270.6	255.1	254.4	253.7
70°	238.2	241.1	243.8	255.1	266.3	266.3	262.1	251.1	240.1	237.6	235.1
72.5°	183.8	192.3	200.9	216.8	232.7	235.3	235.4	227.9	220.4	216.7	213.2
75°	142.7	150.5	158.2	176.0	193.8	206.2	205.2	199.4	193.5	190.0	186.7
77.5°	109.9	115.1	120.4	137.8	155.1	175.4	174.9	170.1	165.5	162.1	158.6
80°	82.4	84.6	86.7	101.4	116.0	140.3	140.2	136.3	132.4	129.5	126.6
82.5°	58.8	59.2	59.7	70.5	81.3	102.0	103.1	101.3	99.3	97.3	95.2
85°	35.6	35.4	35.2	43.0	51.0	66.4	68.0	65.9	63.9	61.5	59.1
87.5°	15.6	15.4	15.2	18.4	21.7	28.1	30.0	29.2	28.4	27.9	27.5
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: P959975

CATALOG NUMBER: NAV-SB1B-830-U-SLL

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	710.8	710.8	710.8	710.8	710.8	710.8	710.8	710.8	710.8	710.8	710.8
2.5°	679.4	675.3	671.2	667.0	663.8	660.6	658.0	655.4	653.4	651.4	649.5
5°	653.5	646.2	639.6	632.9	627.8	622.7	619.1	615.5	613.1	610.5	608.5
7.5°	637.7	628.4	620.3	612.2	606.1	600.0	595.8	591.5	588.7	585.7	583.9
10°	636.6	626.7	617.5	608.3	601.2	593.9	589.1	584.2	581.6	578.8	577.3
12.5°	652.5	644.7	635.3	625.9	616.5	607.3	601.2	595.0	591.9	588.9	587.6
15°	680.7	678.7	670.5	662.3	649.0	635.8	626.5	617.2	612.9	608.6	607.0
17.5°	707.9	714.2	707.6	701.0	683.5	666.0	652.3	638.5	632.2	625.9	623.7
20°	718.0	731.2	728.2	725.1	705.1	685.1	668.3	651.5	643.4	635.2	632.6
22.5°	704.0	721.2	723.0	724.9	705.7	686.6	669.3	651.9	643.4	634.8	632.0
25°	671.3	688.2	694.5	700.8	685.2	669.5	654.2	638.8	631.3	623.9	621.3
27.5°	631.4	645.0	652.0	659.1	647.9	636.8	624.8	612.8	607.9	602.9	601.7
30°	592.4	603.7	609.5	615.2	606.7	598.2	589.7	581.0	578.5	575.9	575.9
32.5°	554.8	565.6	571.9	578.4	570.6	562.7	555.9	549.1	547.3	545.7	545.9
35°	518.5	529.3	536.9	544.6	538.9	533.4	527.2	520.8	518.2	515.8	515.3
37.5°	484.0	494.8	504.2	513.6	511.1	508.5	502.7	496.8	492.2	487.6	485.2
40°	451.4	461.8	472.5	483.5	484.1	484.7	479.7	474.8	468.1	461.5	456.9
42.5°	421.3	431.1	442.8	454.6	457.7	460.8	456.6	452.5	444.1	435.8	429.3
45°	395.4	404.7	416.9	429.1	433.6	438.1	434.3	430.5	421.1	411.5	403.8
47.5°	374.9	384.1	396.1	408.1	413.2	418.4	415.7	413.2	404.7	396.3	389.1
50°	359.8	368.3	379.0	389.8	396.4	403.0	402.9	402.8	396.1	389.3	382.6
52.5°	349.3	357.2	367.2	377.2	385.1	393.0	394.4	395.9	390.3	384.8	378.8
55°	342.7	351.1	359.9	368.6	377.0	385.3	387.3	389.3	384.5	379.7	374.5
57.5°	334.3	344.2	352.8	361.5	369.9	378.3	380.4	382.3	377.5	372.6	367.5
60°	322.4	333.8	342.6	351.5	359.9	368.4	370.5	372.7	368.0	363.3	357.9
62.5°	305.6	318.9	328.3	337.6	345.4	353.1	355.3	357.3	353.1	348.8	343.3
65°	286.5	300.7	309.8	318.7	325.5	332.3	334.5	336.6	332.5	328.4	323.0
67.5°	266.8	280.0	288.5	297.0	302.9	308.8	310.9	312.9	309.2	305.4	300.4
70°	246.7	258.3	265.7	273.1	278.4	283.6	285.7	287.7	284.6	281.6	276.8
72.5°	222.2	231.3	238.0	244.7	249.9	255.1	257.5	259.8	257.3	254.7	250.2
75°	193.4	200.2	206.1	212.2	217.0	221.7	224.2	226.7	225.5	224.2	220.4
77.5°	164.0	169.5	174.7	179.9	184.9	189.8	192.2	194.5	192.8	191.0	187.1
80°	131.1	135.7	140.0	144.4	148.2	152.0	155.1	158.2	157.4	156.7	151.5
82.5°	94.8	94.4	92.9	91.3	99.4	107.5	112.9	118.1	117.8	117.5	113.1
85°	57.2	55.2	51.0	46.7	54.3	61.9	68.5	75.0	74.4	73.9	70.5
87.5°	27.4	27.4	24.1	20.9	24.0	27.3	29.8	32.5	31.9	31.2	29.4
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: P959975

CATALOG NUMBER: NAV-SB1B-830-U-SLL

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	710.8	710.8	710.8	710.8	710.8	710.8	710.8	710.8	710.8	710.8	710.8
2.5°	647.7	645.3	647.7	649.5	651.4	653.4	655.4	658.0	660.6	663.8	667.0
5°	606.6	604.6	606.6	608.5	610.5	613.1	615.5	619.1	622.7	627.8	632.9
7.5°	582.3	581.0	582.3	583.9	585.7	588.7	591.5	595.8	600.0	606.1	612.2
10°	575.8	575.2	575.8	577.3	578.8	581.6	584.2	589.1	593.9	601.2	608.3
12.5°	586.4	586.1	586.4	587.6	588.9	591.9	595.0	601.2	607.3	616.5	625.9
15°	605.4	605.3	605.4	607.0	608.6	612.9	617.2	626.5	635.8	649.0	662.3
17.5°	621.7	621.4	621.7	623.7	625.9	632.2	638.5	652.3	666.0	683.5	701.0
20°	630.1	629.2	630.1	632.6	635.2	643.4	651.5	668.3	685.1	705.1	725.1
22.5°	629.1	627.9	629.1	632.0	634.8	643.4	651.9	669.3	686.6	705.7	724.9
25°	618.6	616.9	618.6	621.3	623.9	631.3	638.8	654.2	669.5	685.2	700.8
27.5°	600.4	600.0	600.4	601.7	602.9	607.9	612.8	624.8	636.8	647.9	659.1
30°	575.9	576.4	575.9	575.9	575.9	578.5	581.0	589.7	598.2	606.7	615.2
32.5°	546.2	546.6	546.2	545.9	545.7	547.3	549.1	555.9	562.7	570.6	578.4
35°	514.7	514.4	514.7	515.3	515.8	518.2	520.8	527.2	533.4	538.9	544.6
37.5°	482.8	481.4	482.8	485.2	487.6	492.2	496.8	502.7	508.5	511.1	513.6
40°	452.4	449.8	452.4	456.9	461.5	468.1	474.8	479.7	484.7	484.1	483.5
42.5°	422.7	418.4	422.7	429.3	435.8	444.1	452.5	456.6	460.8	457.7	454.6
45°	396.1	391.1	396.1	403.8	411.5	421.1	430.5	434.3	438.1	433.6	429.1
47.5°	382.0	377.2	382.0	389.1	396.3	404.7	413.2	415.7	418.4	413.2	408.1
50°	376.1	371.5	376.1	382.6	389.3	396.1	402.8	402.9	403.0	396.4	389.8
52.5°	373.0	368.8	373.0	378.8	384.8	390.3	395.9	394.4	393.0	385.1	377.2
55°	369.3	365.5	369.3	374.5	379.7	384.5	389.3	387.3	385.3	377.0	368.6
57.5°	362.3	358.4	362.3	367.5	372.6	377.5	382.3	380.4	378.3	369.9	361.5
60°	352.7	348.6	352.7	357.9	363.3	368.0	372.7	370.5	368.4	359.9	351.5
62.5°	337.6	332.7	337.6	343.3	348.8	353.1	357.3	355.3	353.1	345.4	337.6
65°	317.6	313.3	317.6	323.0	328.4	332.5	336.6	334.5	332.3	325.5	318.7
67.5°	295.4	291.6	295.4	300.4	305.4	309.2	312.9	310.9	308.8	302.9	297.0
70°	271.9	267.5	271.9	276.8	281.6	284.6	287.7	285.7	283.6	278.4	273.1
72.5°	245.6	241.4	245.6	250.2	254.7	257.3	259.8	257.5	255.1	249.9	244.7
75°	216.5	212.5	216.5	220.4	224.2	225.5	226.7	224.2	221.7	217.0	212.2
77.5°	183.3	180.0	183.3	187.1	191.0	192.8	194.5	192.2	189.8	184.9	179.9
80°	146.3	140.2	146.3	151.5	156.7	157.4	158.2	155.1	152.0	148.2	144.4
82.5°	108.6	104.8	108.6	113.1	117.5	117.8	118.1	112.9	107.5	99.4	91.3
85°	67.0	63.6	67.0	70.5	73.9	74.4	75.0	68.5	61.9	54.3	46.7
87.5°	27.6	25.9	27.6	29.4	31.2	31.9	32.5	29.8	27.3	24.0	20.9
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: P959975

CATALOG NUMBER: NAV-SB1B-830-U-SLL

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	710.8	710.8	710.8	710.8	710.8	710.8	710.8	710.8	710.8	710.8	710.8
2.5°	671.2	675.3	679.4	683.5	688.2	692.9	698.1	703.4	709.8	715.7	721.6
5°	639.6	646.2	653.5	660.8	669.1	677.4	687.3	697.2	708.5	720.0	732.1
7.5°	620.3	628.4	637.7	646.9	657.7	668.6	681.7	694.9	709.6	725.2	742.1
10°	617.5	626.7	636.6	646.5	657.4	668.3	682.1	696.0	711.8	731.0	751.1
12.5°	635.3	644.7	652.5	660.3	667.5	674.8	686.0	697.4	712.1	732.3	754.9
15°	670.5	678.7	680.7	682.6	681.7	680.7	686.1	691.6	703.3	725.7	751.9
17.5°	707.6	714.2	707.9	701.6	689.7	677.8	675.8	673.8	681.1	707.5	739.0
20°	728.2	731.2	718.0	704.8	684.1	663.5	654.2	644.9	646.9	677.5	716.7
22.5°	723.0	721.2	704.0	686.7	663.1	639.6	625.9	612.1	608.3	643.4	690.4
25°	694.5	688.2	671.3	654.4	633.1	611.9	596.1	580.3	570.2	606.1	661.2
27.5°	652.0	645.0	631.4	617.9	600.4	583.0	567.7	552.5	540.2	572.9	634.5
30°	609.5	603.7	592.4	581.2	566.7	552.3	540.1	528.0	518.3	545.8	612.1
32.5°	571.9	565.6	554.8	544.0	532.5	520.9	513.7	506.6	502.2	524.4	592.8
35°	536.9	529.3	518.5	507.9	499.1	490.3	488.3	486.4	488.1	506.5	573.8
37.5°	504.2	494.8	484.0	473.3	467.1	460.7	462.9	465.1	471.6	487.7	551.6
40°	472.5	461.8	451.4	441.1	436.5	431.9	437.0	441.9	451.8	466.4	524.9
42.5°	442.8	431.1	421.3	411.5	407.7	404.1	410.6	417.2	429.7	443.2	495.6
45°	416.9	404.7	395.4	386.1	383.0	379.9	386.2	392.7	404.8	418.4	464.3
47.5°	396.1	384.1	374.9	365.9	363.0	360.1	365.4	370.7	381.2	398.7	439.6
50°	379.0	368.3	359.8	351.2	346.6	341.9	346.7	351.5	363.6	386.7	423.2
52.5°	367.2	357.2	349.3	341.5	334.7	327.7	332.4	337.0	354.0	380.6	412.5
55°	359.9	351.1	342.7	334.2	324.4	314.6	322.1	329.4	355.0	379.8	404.7
57.5°	352.8	344.2	334.3	324.3	313.8	303.2	314.1	324.8	356.0	377.7	395.3
60°	342.6	333.8	322.4	311.0	301.8	292.5	306.6	320.5	352.9	367.4	381.2
62.5°	328.3	318.9	305.6	292.2	286.4	280.5	298.0	315.5	345.5	347.4	356.5
65°	309.8	300.7	286.5	272.2	270.0	267.7	286.4	304.9	327.9	327.6	332.0
67.5°	288.5	280.0	266.8	253.7	254.4	255.1	270.6	286.1	298.9	299.5	297.1
70°	265.7	258.3	246.7	235.1	237.6	240.1	251.1	262.1	266.3	266.3	255.1
72.5°	238.0	231.3	222.2	213.2	216.7	220.4	227.9	235.4	235.3	232.7	216.8
75°	206.1	200.2	193.4	186.7	190.0	193.5	199.4	205.2	206.2	193.8	176.0
77.5°	174.7	169.5	164.0	158.6	162.1	165.5	170.1	174.9	175.4	155.1	137.8
80°	140.0	135.7	131.1	126.6	129.5	132.4	136.3	140.2	140.3	116.0	101.4
82.5°	92.9	94.4	94.8	95.2	97.3	99.3	101.3	103.1	102.0	81.3	70.5
85°	51.0	55.2	57.2	59.1	61.5	63.9	65.9	68.0	66.4	51.0	43.0
87.5°	24.1	27.4	27.4	27.5	27.9	28.4	29.2	30.0	28.1	21.7	18.4
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: P959975

CATALOG NUMBER: NAV-SB1B-830-U-SLL

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	710.8	710.8	710.8	710.8	710.8	710.8	710.8
2.5°	727.6	733.9	740.2	746.4	752.7	758.5	764.3
5°	744.3	757.2	770.2	783.1	796.0	809.0	821.9
7.5°	759.1	778.3	797.6	817.2	837.0	858.3	879.8
10°	771.1	794.5	817.8	843.9	870.0	897.1	924.0
12.5°	777.7	805.1	832.7	862.2	891.9	921.5	951.2
15°	778.2	810.0	841.6	873.7	905.8	936.7	967.7
17.5°	770.6	807.4	844.2	879.2	914.2	945.6	977.0
20°	755.8	800.4	845.0	883.6	922.0	954.6	987.2
22.5°	737.6	791.8	846.1	889.3	932.4	965.8	999.1
25°	716.4	783.4	850.4	899.7	949.0	981.6	1014.3
27.5°	696.1	777.8	859.5	916.1	972.7	1004.0	1035.0
30°	678.3	775.1	871.8	937.4	1002.9	1032.9	1063.0
32.5°	661.2	771.8	882.4	959.4	1036.5	1066.2	1096.0
35°	641.1	765.7	890.2	984.6	1079.0	1107.6	1136.1
37.5°	615.4	755.1	894.8	1012.9	1130.9	1167.3	1203.7
40°	583.4	740.6	897.8	1048.7	1199.7	1252.7	1305.6
42.5°	547.9	725.6	903.3	1095.6	1287.9	1364.4	1440.9
45°	510.2	711.7	913.1	1157.3	1401.6	1504.8	1608.0
47.5°	480.5	700.2	919.7	1223.0	1526.3	1671.7	1816.9
50°	459.8	687.6	915.3	1284.0	1652.7	1871.8	2090.8
52.5°	444.3	666.4	888.5	1323.6	1758.7	2081.9	2405.2
55°	429.6	631.3	833.0	1314.9	1796.7	2268.2	2739.8
57.5°	413.0	581.7	750.5	1253.5	1756.4	2400.3	3044.1
60°	395.0	517.4	639.8	1139.2	1638.5	2433.4	3228.1
62.5°	365.7	440.4	515.2	984.6	1454.0	2294.4	3134.8
65°	336.3	371.2	406.1	826.9	1247.7	2097.8	2947.8
67.5°	294.7	304.6	314.6	672.4	1030.2	1863.8	2697.3
70°	243.8	241.1	238.2	529.4	820.6	1608.4	2396.2
72.5°	200.9	192.3	183.8	404.8	625.7	1331.7	2037.6
75°	158.2	150.5	142.7	293.8	444.8	1014.3	1583.8
77.5°	120.4	115.1	109.9	199.1	288.2	709.9	1131.6
80°	86.7	84.6	82.4	128.2	174.1	457.4	740.7
82.5°	59.7	59.2	58.8	78.9	98.9	264.8	430.5
85°	35.2	35.4	35.6	42.1	48.8	119.1	189.4
87.5°	15.2	15.4	15.6	17.5	19.4	39.1	58.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)