

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: P961557

Luminaire Tested: **NAV-SB2A-830-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961557
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-SB2A-830-U-SLR-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

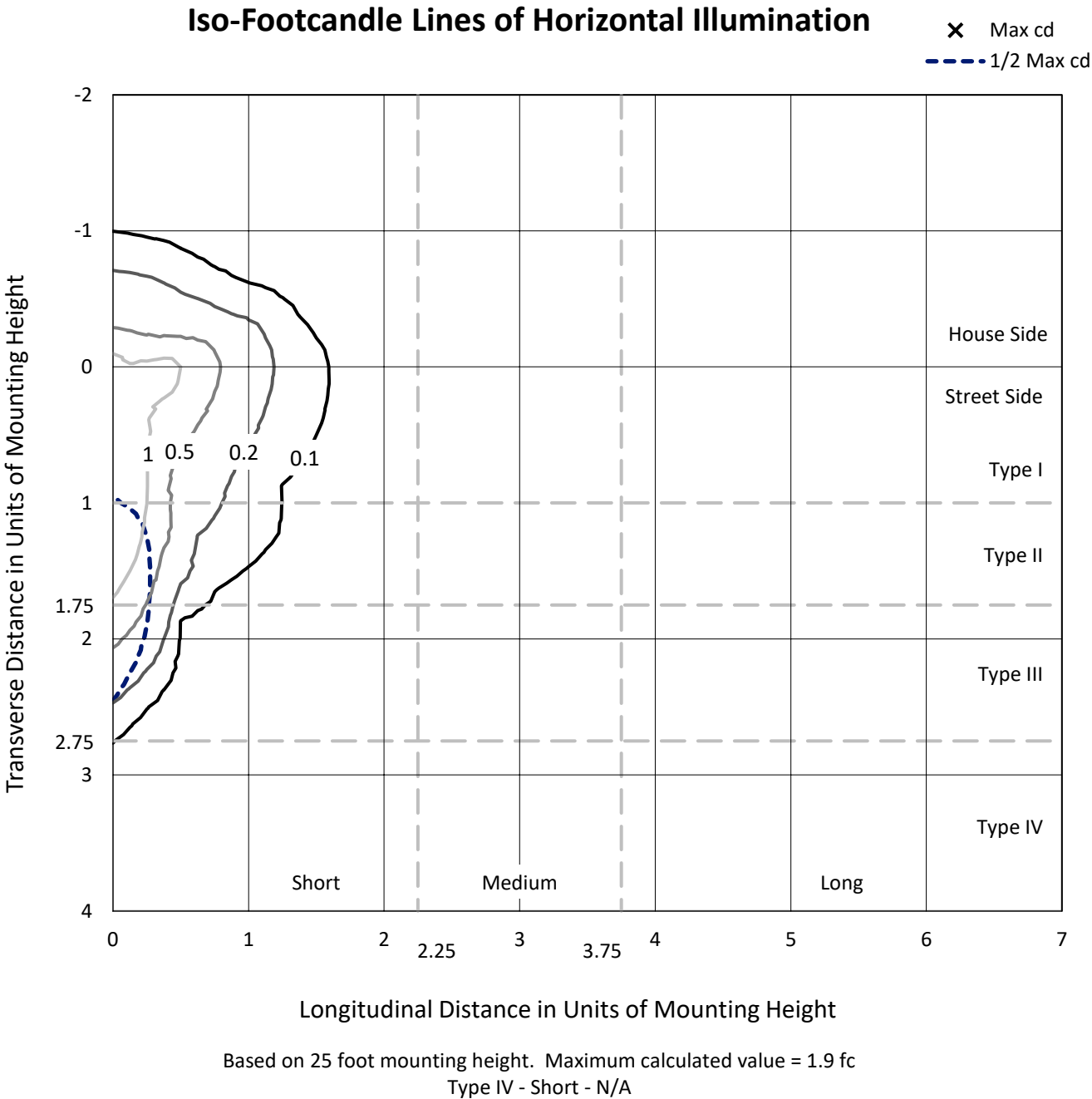
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6305.8 lumens
Efficiency: N/A
Efficacy: 110.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 57.3
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

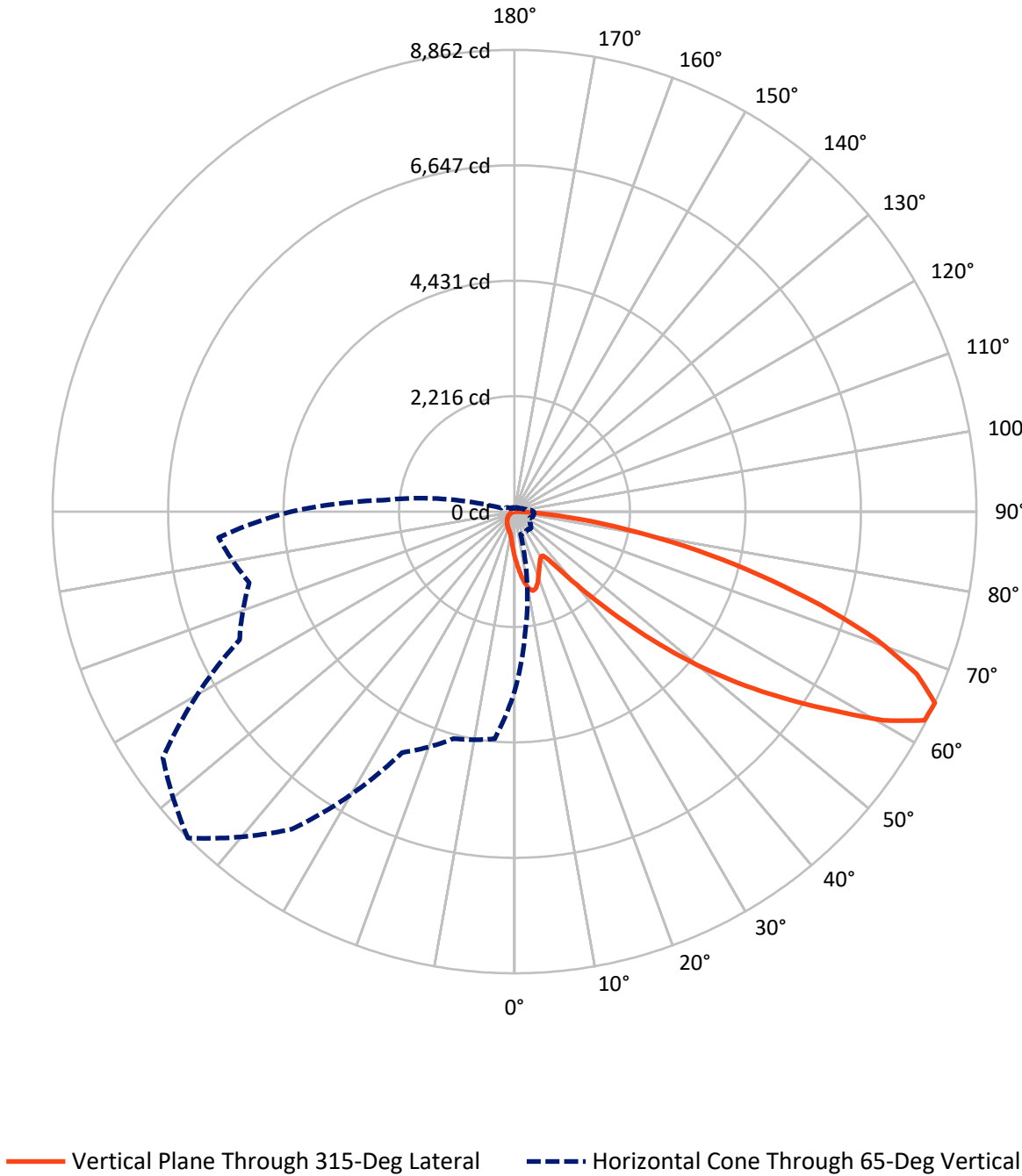


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Luminous Intensity Polar Plot



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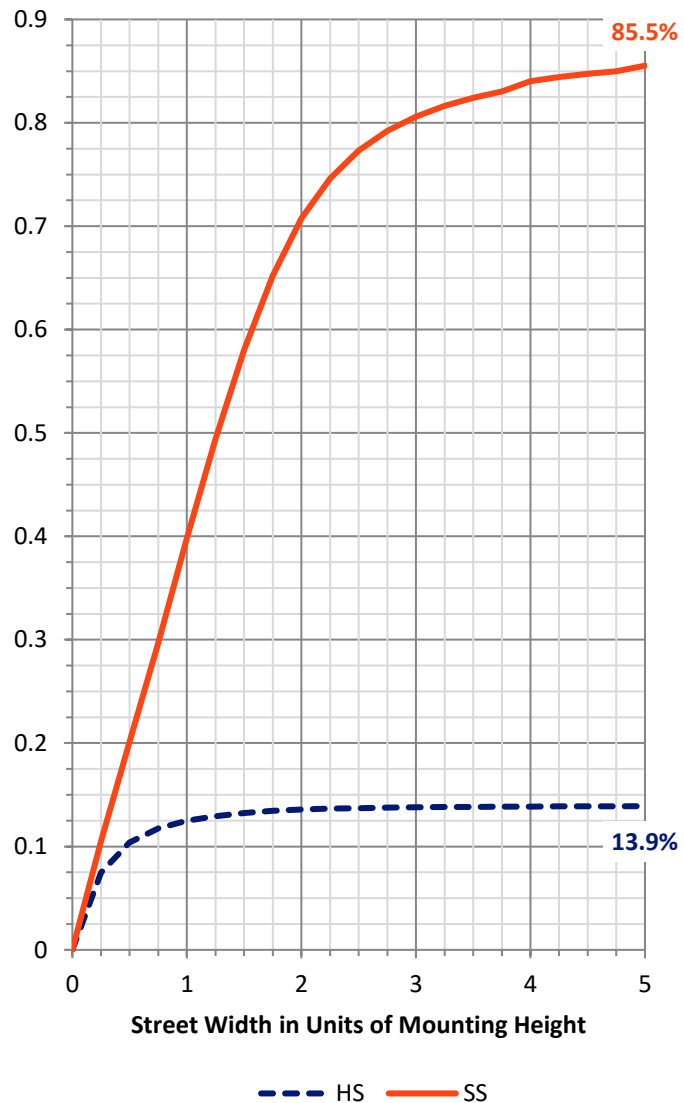
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	883.1	0.0	883.1
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	5422.7	0.0	5422.7
	% Fixture	86.0	0.0	86.0
Total	Lumens	6305.8	0.0	6305.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.0	1.4
10°-20°	257.7	4.1
20°-30°	379.6	6.0
30°-40°	487.7	7.7
40°-50°	788.8	12.5
50°-60°	1383.3	21.9
60°-70°	1730.8	27.4
70°-80°	1011.4	16.0
80°-90°	180.4	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°	6305.8	100.0
0°-180°	6305.8	100.0

Coefficient of Utilization



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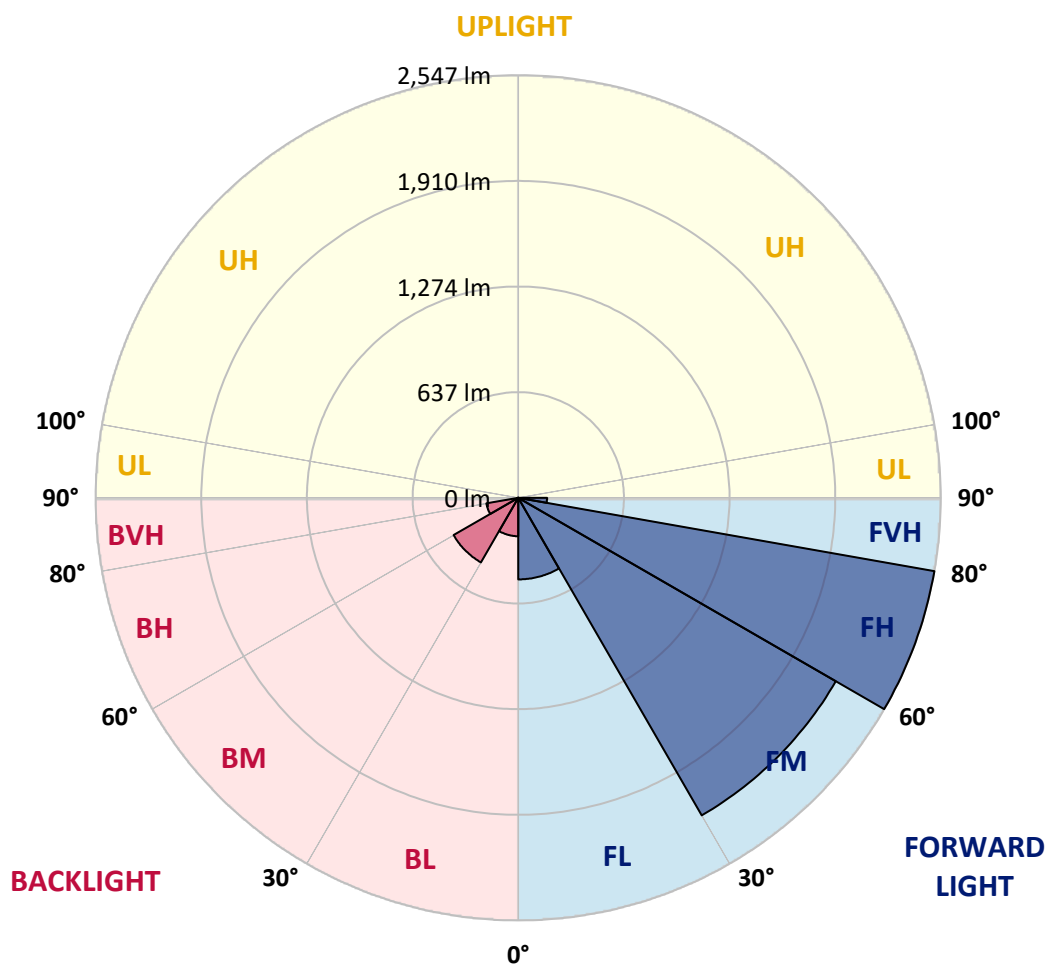
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	491.8	7.8			
FM	(30°-60°)	2210.1	35.0			
FH	(60°-80°)	2547.2	40.4			G2/5000
FVH	(80°-90°)	173.5	2.8			G2/225
BL	(0°-30°)	231.5	3.7	B1/500		
BM	(30°-60°)	449.7	7.1	B1/1000		
BH	(60°-80°)	195.0	3.1	B1/500		G1/500
BVH	(80°-90°)	6.9	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	873.2	873.2	873.2	873.2	873.2	873.2	873.2	873.2	873.2	873.2	873.2
2.5°	986.6	969.5	959.6	934.8	910.1	890.1	863.2	845.3	824.1	803.6	785.4
5°	1099.5	1072.1	1039.1	993.9	952.6	910.5	869.7	829.3	786.7	747.6	723.8
7.5°	1195.0	1155.5	1097.3	1037.4	984.8	934.0	886.2	832.7	781.0	719.9	687.3
10°	1268.0	1217.6	1141.1	1062.5	1002.1	950.9	904.5	859.3	807.1	733.3	692.5
12.5°	1312.3	1258.5	1167.7	1075.5	1006.6	949.1	913.1	893.2	872.7	799.3	751.5
15°	1344.9	1286.7	1186.3	1084.7	996.5	926.2	899.6	919.6	943.1	896.2	841.0
17.5°	1378.8	1317.5	1210.7	1088.7	969.5	881.4	870.1	921.8	976.1	974.0	919.2
20°	1410.9	1350.1	1231.9	1086.0	926.2	827.1	837.1	903.1	966.2	992.6	963.1
22.5°	1447.9	1383.5	1252.3	1076.0	869.7	776.2	807.6	873.6	928.8	960.0	950.9
25°	1493.0	1425.7	1281.0	1061.3	808.8	734.1	777.6	839.3	884.1	905.7	905.3
27.5°	1541.7	1476.1	1319.3	1053.4	759.7	704.2	743.7	798.5	838.4	853.6	853.6
30°	1602.1	1534.7	1364.5	1044.8	727.6	686.7	708.5	751.1	790.2	805.3	805.3
32.5°	1668.1	1599.9	1407.9	1023.9	708.1	673.7	674.2	701.1	736.8	755.0	757.6
35°	1750.6	1678.1	1454.4	978.3	692.5	658.6	640.7	653.7	683.4	705.0	710.7
37.5°	1868.4	1780.6	1511.3	913.1	669.4	635.1	605.6	608.6	631.2	655.1	663.8
40°	2030.8	1918.3	1578.2	845.3	636.4	602.1	566.9	565.6	582.1	605.6	615.1
42.5°	2250.7	2100.3	1658.6	780.6	604.6	562.1	526.0	523.9	536.9	557.3	567.3
45°	2540.9	2333.2	1757.2	725.0	579.9	523.1	487.4	486.6	497.4	515.2	525.6
47.5°	2912.2	2656.8	1855.8	687.3	566.9	492.2	455.7	457.5	467.0	483.1	490.5
50°	3393.2	3078.6	1885.8	668.1	566.9	475.7	427.4	436.1	443.9	456.1	460.4
52.5°	3969.6	3483.5	1786.7	650.8	570.4	477.9	403.5	422.2	427.9	438.3	440.0
55°	4503.8	3682.0	1536.1	626.9	571.2	491.3	383.1	410.9	421.4	425.3	424.9
57.5°	4814.0	3613.8	1242.0	586.4	567.7	500.4	370.1	397.1	417.1	419.6	415.7
60°	4755.0	3374.4	914.4	555.7	542.1	496.9	366.2	375.8	407.4	411.3	406.2
62.5°	4299.8	2973.0	634.7	531.7	485.6	481.7	364.9	342.3	386.6	396.2	388.8
65°	3456.1	2340.6	448.3	457.9	425.7	448.7	357.9	307.6	361.4	374.4	363.2
67.5°	2507.4	1583.8	323.6	370.9	385.7	395.3	342.3	282.4	332.7	350.1	335.4
70°	1609.0	855.4	227.2	245.0	324.9	335.8	315.4	259.7	303.6	323.6	307.6
72.5°	1143.8	505.2	163.4	171.6	261.1	279.7	277.6	234.6	269.8	294.1	275.0
75°	789.4	278.5	110.3	122.5	189.4	227.2	214.1	201.5	228.5	253.3	234.6
77.5°	494.8	124.6	66.0	85.2	124.2	178.6	146.8	155.9	178.1	201.1	181.6
80°	275.4	48.2	36.9	56.5	67.8	129.9	81.3	100.3	131.2	147.7	132.0
82.5°	60.0	6.0	16.5	24.3	26.5	75.5	43.0	58.2	82.5	81.3	70.4
85°	0.0	0.0	3.1	3.5	1.7	32.6	15.7	19.1	27.0	25.2	19.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	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°	873.2	873.2	873.2	873.2	873.2	873.2	873.2	873.2	873.2	873.2	873.2
2.5°	782.0	760.7	745.0	737.2	730.6	736.8	740.3	740.3	755.0	763.7	767.1
5°	708.5	670.2	641.1	621.7	609.9	613.8	618.2	622.9	641.6	654.3	662.5
7.5°	657.6	599.0	554.7	527.4	513.0	515.2	518.2	522.1	540.4	553.0	563.9
10°	648.1	563.9	501.3	465.2	447.8	444.8	443.1	441.8	452.6	462.2	470.9
12.5°	687.3	565.6	478.3	434.4	413.1	404.0	393.6	385.3	387.0	393.1	404.0
15°	757.2	587.7	470.9	418.3	391.9	376.6	364.5	354.4	352.3	354.4	356.2
17.5°	837.1	617.8	470.1	404.5	371.5	355.8	345.8	336.7	333.6	334.0	336.2
20°	890.1	641.6	467.4	388.8	351.9	337.9	329.2	320.1	317.1	318.0	318.5
22.5°	895.3	654.3	463.5	371.5	332.3	320.6	311.9	303.6	303.2	303.2	305.9
25°	867.0	654.3	455.3	355.8	313.6	303.2	295.4	285.4	287.1	288.0	291.5
27.5°	823.2	638.6	439.6	343.2	297.6	286.7	278.9	269.8	271.9	273.3	277.2
30°	779.7	618.6	421.0	328.8	282.4	269.8	264.1	256.2	257.2	258.9	263.2
32.5°	739.3	597.3	398.8	317.1	267.1	254.6	250.2	241.5	242.8	244.6	249.4
35°	699.4	573.9	372.7	303.2	253.3	240.7	237.2	227.2	228.1	230.6	235.9
37.5°	656.4	549.1	351.5	289.4	239.7	226.7	223.2	212.9	213.7	216.8	222.8
40°	611.2	524.8	330.6	274.5	225.5	212.4	209.4	198.1	199.0	202.4	209.0
42.5°	565.6	498.3	314.5	255.4	210.6	196.8	193.7	183.3	184.6	188.5	195.1
45°	523.5	466.6	304.1	234.1	196.8	181.1	178.1	168.5	171.2	175.5	182.0
47.5°	487.4	434.0	299.7	216.4	182.0	165.0	162.5	154.7	159.0	163.8	169.0
50°	456.5	402.7	294.1	198.1	168.1	151.2	148.5	143.4	149.0	153.8	158.6
52.5°	434.4	367.1	282.0	181.6	155.9	139.4	138.6	136.0	141.1	145.5	149.9
55°	415.3	330.2	262.4	167.3	145.1	129.5	130.3	129.0	133.4	136.8	140.7
57.5°	397.9	298.0	237.6	155.9	133.4	120.7	123.4	121.7	123.8	126.0	130.8
60°	377.1	265.4	208.1	143.4	119.4	112.0	115.1	110.3	109.9	110.8	112.0
62.5°	346.2	221.5	177.2	127.7	107.3	102.5	103.8	94.7	87.7	87.7	89.1
65°	303.2	178.1	148.5	110.3	93.4	89.5	88.7	75.5	66.0	65.2	69.1
67.5°	253.3	146.4	123.4	93.0	77.8	75.1	76.1	66.4	56.9	56.1	60.4
70°	206.3	121.2	99.5	74.3	60.0	62.5	66.4	56.9	47.8	46.4	50.4
72.5°	167.7	96.5	77.8	56.9	44.3	51.7	56.5	46.4	37.8	36.9	40.4
75°	129.5	70.8	55.6	38.6	32.2	40.0	44.3	33.9	27.0	25.6	28.7
77.5°	86.4	43.9	31.3	24.3	19.1	27.4	29.5	17.8	15.7	15.2	17.4
80°	52.6	20.4	13.4	11.7	6.6	9.9	11.7	7.4	8.3	8.7	10.5
82.5°	26.5	5.6	2.2	0.4	0.0	0.0	3.5	1.7	3.5	4.3	6.6
85°	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.2	3.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7
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°	873.2	873.2	873.2	873.2	873.2	873.2	873.2	873.2	873.2	873.2	873.2
2.5°	791.5	809.7	827.1	855.0	883.6	911.8	940.4	968.3	978.3	985.6	1002.1
5°	700.3	734.6	774.6	829.7	888.8	949.6	1011.3	1067.7	1093.4	1110.8	1149.8
7.5°	606.0	650.8	708.1	791.1	883.6	980.4	1077.3	1166.3	1207.7	1241.1	1300.6
10°	512.6	561.3	633.8	728.5	853.6	992.6	1126.4	1248.9	1302.4	1344.5	1425.3
12.5°	430.5	476.1	552.2	656.8	806.7	983.1	1154.7	1302.0	1364.9	1412.2	1500.9
15°	372.7	404.9	472.2	585.2	751.1	952.2	1156.4	1327.1	1396.2	1445.7	1522.5
17.5°	340.6	351.5	395.3	512.2	689.4	911.8	1140.3	1335.8	1409.7	1455.7	1509.1
20°	323.2	324.9	337.1	417.5	610.4	874.0	1125.1	1344.5	1422.2	1460.9	1476.9
22.5°	309.3	309.3	312.3	341.4	508.3	828.8	1120.3	1359.7	1439.6	1463.5	1430.5
25°	296.7	296.7	297.6	305.3	402.7	759.7	1117.2	1383.1	1463.5	1470.1	1379.2
27.5°	283.6	284.1	284.1	288.4	324.5	665.9	1104.2	1413.6	1492.2	1478.7	1330.1
30°	270.6	271.5	271.5	274.5	287.1	556.1	1078.6	1450.1	1529.5	1490.0	1281.5
32.5°	257.6	258.5	258.5	261.1	270.2	443.9	1046.5	1483.5	1567.3	1494.8	1236.4
35°	244.2	245.5	244.6	248.0	257.6	353.2	1005.6	1516.9	1608.1	1510.0	1214.1
37.5°	230.6	231.5	231.1	234.6	245.5	304.9	958.3	1542.1	1663.8	1543.9	1240.7
40°	217.2	216.8	216.8	220.7	232.4	291.1	898.8	1582.1	1743.7	1603.4	1356.2
42.5°	203.3	203.3	202.4	206.7	221.1	280.6	841.8	1653.7	1860.1	1698.1	1561.3
45°	190.8	190.2	188.5	192.4	210.2	262.4	821.8	1787.6	2032.2	1851.5	1809.3
47.5°	178.6	178.1	173.7	177.2	197.2	245.9	896.6	2006.5	2270.6	2076.9	2041.7
50°	167.7	168.1	159.9	162.9	184.2	233.3	1058.6	2290.6	2587.3	2380.6	2262.0
52.5°	157.6	157.6	146.8	148.5	168.1	222.0	1212.9	2598.6	3005.2	2804.1	2518.6
55°	147.7	146.8	134.7	135.5	152.0	205.9	1235.8	2899.2	3575.1	3441.3	2869.7
57.5°	136.4	134.7	123.4	123.4	137.2	194.1	1071.2	3130.4	4282.3	4377.9	3375.7
60°	122.5	121.2	113.8	111.6	125.6	204.6	755.8	3157.2	4738.5	5623.4	4344.9
62.5°	104.7	106.4	102.5	99.5	114.3	212.4	447.8	2940.5	4628.2	6019.5	5505.6
65°	82.5	89.5	88.7	86.4	125.6	179.0	264.6	2524.4	4289.7	5699.8	5268.9
67.5°	70.4	75.1	73.8	73.8	131.6	136.0	166.4	1972.2	3824.1	5320.6	4706.3
70°	60.0	64.7	60.0	60.0	99.5	82.5	115.1	1377.1	3321.4	4900.9	4337.1
72.5°	49.5	54.3	49.1	45.6	79.5	61.7	84.3	860.6	2844.5	4464.0	4084.2
75°	37.8	43.5	39.6	35.2	52.6	46.0	63.9	500.0	2356.7	3819.3	3724.1
77.5°	23.9	31.3	29.5	24.8	38.6	33.4	46.0	297.6	1818.5	2984.4	3203.3
80°	14.8	16.1	16.5	15.7	22.1	22.5	31.3	169.4	1244.6	2079.9	2502.6
82.5°	9.5	9.5	7.4	8.3	10.9	13.0	17.8	63.9	731.5	1266.3	1742.0
85°	7.0	6.0	3.9	3.9	5.2	6.6	7.0	19.6	296.7	500.0	681.1
87.5°	3.5	3.1	1.3	1.7	2.6	2.2	1.7	0.8	74.7	159.9	112.0
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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CATALOG NUMBER: NAV-SB2A-830-U-SLR-HSS

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	873.2	873.2	873.2	873.2	873.2	873.2	873.2	873.2
2.5°	1010.9	1024.3	1025.2	1025.2	1013.4	1013.0	989.1	986.6
5°	1190.2	1198.9	1201.1	1196.8	1173.3	1156.0	1109.5	1099.5
7.5°	1354.4	1371.9	1371.9	1361.4	1323.2	1287.6	1220.3	1195.0
10°	1485.6	1505.6	1501.3	1480.0	1431.8	1382.7	1301.0	1268.0
12.5°	1549.5	1569.9	1558.6	1534.3	1487.4	1435.7	1349.7	1312.3
15°	1548.3	1542.5	1530.8	1527.8	1505.2	1466.2	1385.7	1344.9
17.5°	1493.0	1445.2	1436.1	1466.6	1495.2	1485.6	1417.1	1378.8
20°	1405.7	1322.4	1314.0	1372.3	1454.0	1495.7	1446.2	1410.9
22.5°	1313.6	1223.7	1204.6	1268.8	1391.8	1498.7	1483.1	1447.9
25°	1226.3	1136.0	1116.8	1176.8	1322.8	1493.5	1523.0	1493.0
27.5°	1153.3	1066.0	1048.2	1108.1	1256.3	1478.7	1563.0	1541.7
30°	1096.9	1016.1	1003.1	1060.8	1198.9	1460.4	1613.8	1602.1
32.5°	1063.8	1004.8	1009.5	1056.9	1168.1	1440.4	1662.4	1668.1
35°	1096.4	1099.0	1140.7	1160.3	1196.8	1437.5	1728.5	1750.6
37.5°	1258.5	1348.8	1435.3	1419.2	1337.1	1472.6	1827.1	1868.4
40°	1534.3	1719.8	1860.1	1798.9	1592.1	1580.3	1969.1	2030.8
42.5°	1871.4	2185.9	2417.1	2252.8	1921.0	1768.8	2172.0	2250.7
45°	2227.2	2760.6	3124.7	2783.2	2271.5	2033.0	2479.2	2540.9
47.5°	2602.1	3459.2	3930.1	3371.4	2596.4	2333.6	2897.9	2912.2
50°	3012.2	4225.0	4751.1	3959.2	2910.1	2678.1	3409.7	3393.2
52.5°	3402.7	5012.6	5554.7	4549.5	3185.5	3105.5	4003.4	3969.6
55°	3775.4	5799.8	6363.1	5116.8	3445.2	3670.3	4709.0	4503.8
57.5°	4207.6	6507.4	7196.3	5686.8	3808.4	4403.5	5497.8	4814.0
60°	4846.6	7311.4	8138.6	6467.9	4499.1	5174.2	5780.6	4755.0
62.5°	5662.4	8050.8	8823.6	7233.2	5192.9	5319.2	5364.0	4299.8
65°	5821.0	8238.0	8862.3	7437.8	5103.4	4512.2	4379.2	3456.1
67.5°	5400.5	7899.7	8321.9	7056.9	4514.3	3486.9	3286.3	2507.4
70°	4928.7	7254.5	7380.1	6409.2	3970.4	2564.8	2219.3	1609.0
72.5°	4445.2	6394.0	6134.2	5566.1	3489.6	1867.5	1600.7	1143.8
75°	3871.0	5262.3	4831.8	4624.7	2889.3	1465.6	1158.1	789.4
77.5°	3099.9	3704.1	3589.0	3584.7	2171.2	1070.8	772.8	494.8
80°	2186.8	2404.0	2345.3	2699.8	1456.5	776.7	465.2	275.4
82.5°	1058.6	1329.3	1364.5	1607.7	708.5	456.9	107.3	60.0
85°	414.4	641.1	540.8	610.4	199.0	127.3	2.6	0.0
87.5°	46.4	74.3	68.2	53.9	24.3	5.2	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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