

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: P971010

Luminaire Tested: **NAV-SB6C-827-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971010
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-827-U-SLL-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 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: 30892.5 lumens
Efficiency: N/A
Efficacy: 102.7 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



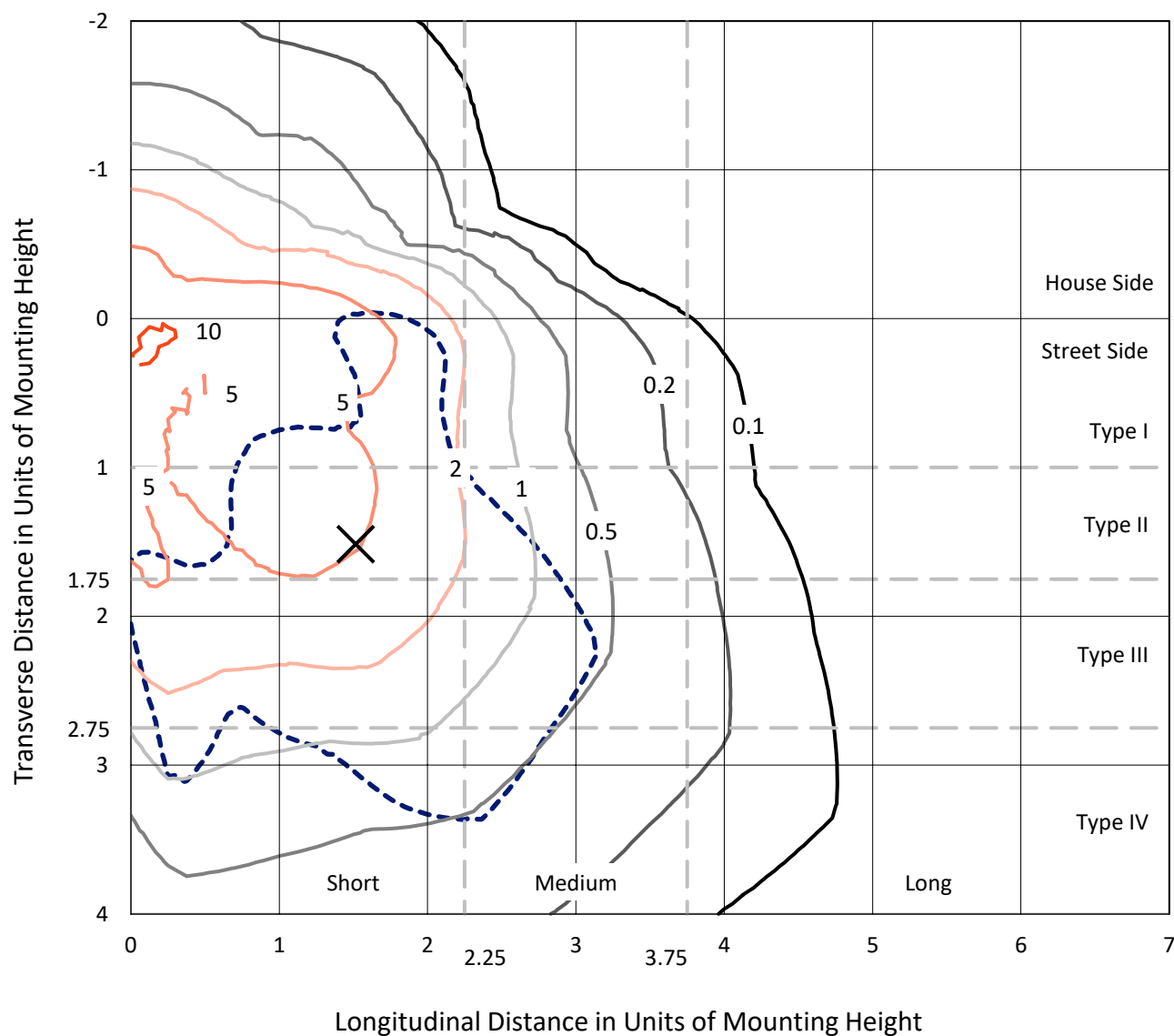
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

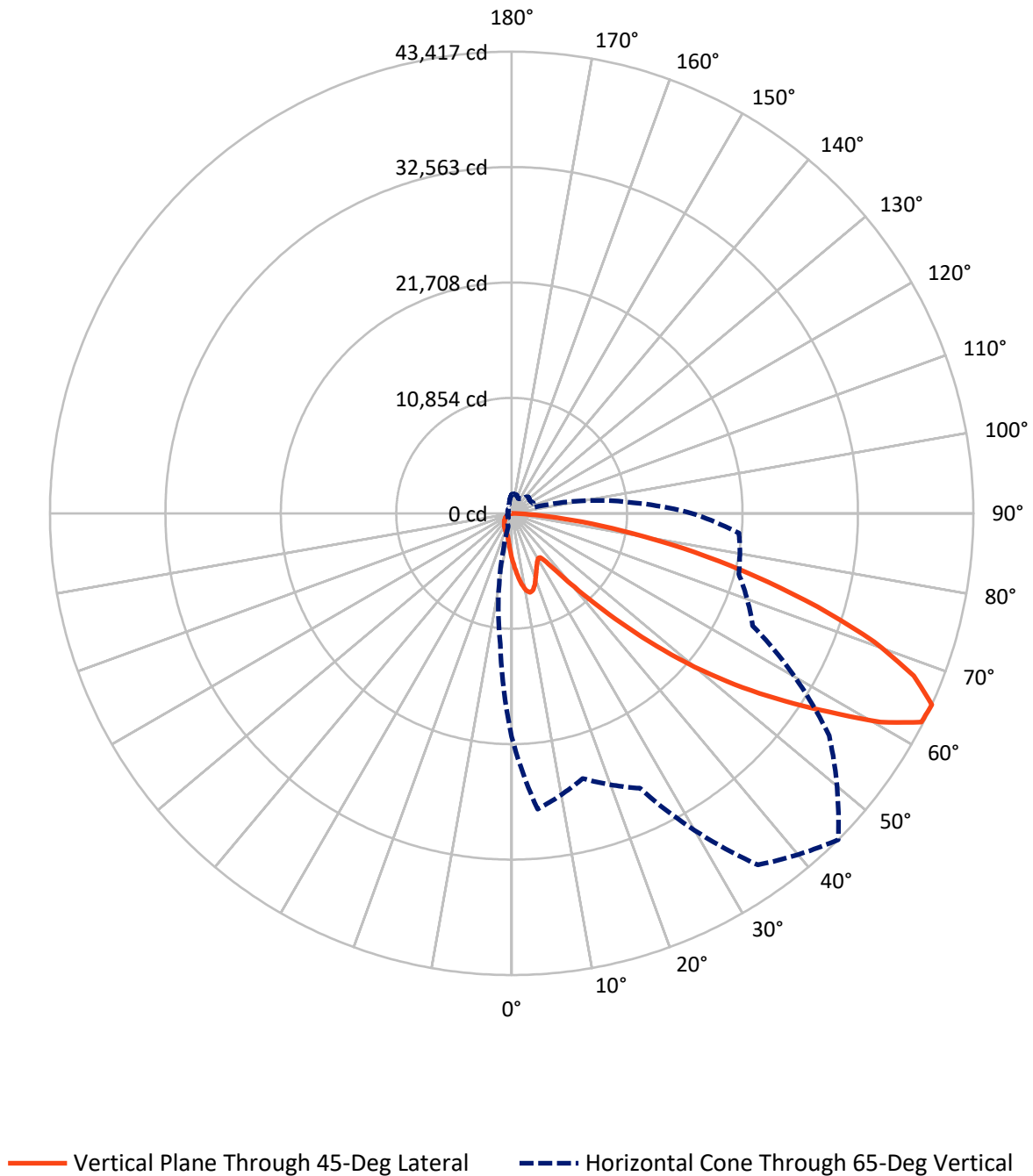


Based on 25 foot mounting height. Maximum calculated value = 11.2 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6140.5	0.0	6140.5
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	24752.0	0.0	24752.0
	% Fixture	80.1	0.0	80.1
Total	Lumens	30892.5	0.0	30892.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	421.1	1.4
10°-20°	1262.5	4.1
20°-30°	1859.9	6.0
30°-40°	2389.4	7.7
40°-50°	3864.4	12.5
50°-60°	6776.6	21.9
60°-70°	8479.4	27.4
70°-80°	4955.0	16.0
80°-90°	884.0	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°	30892.5	100.0
0°-180°	30892.5	100.0

Coefficient of Utilization



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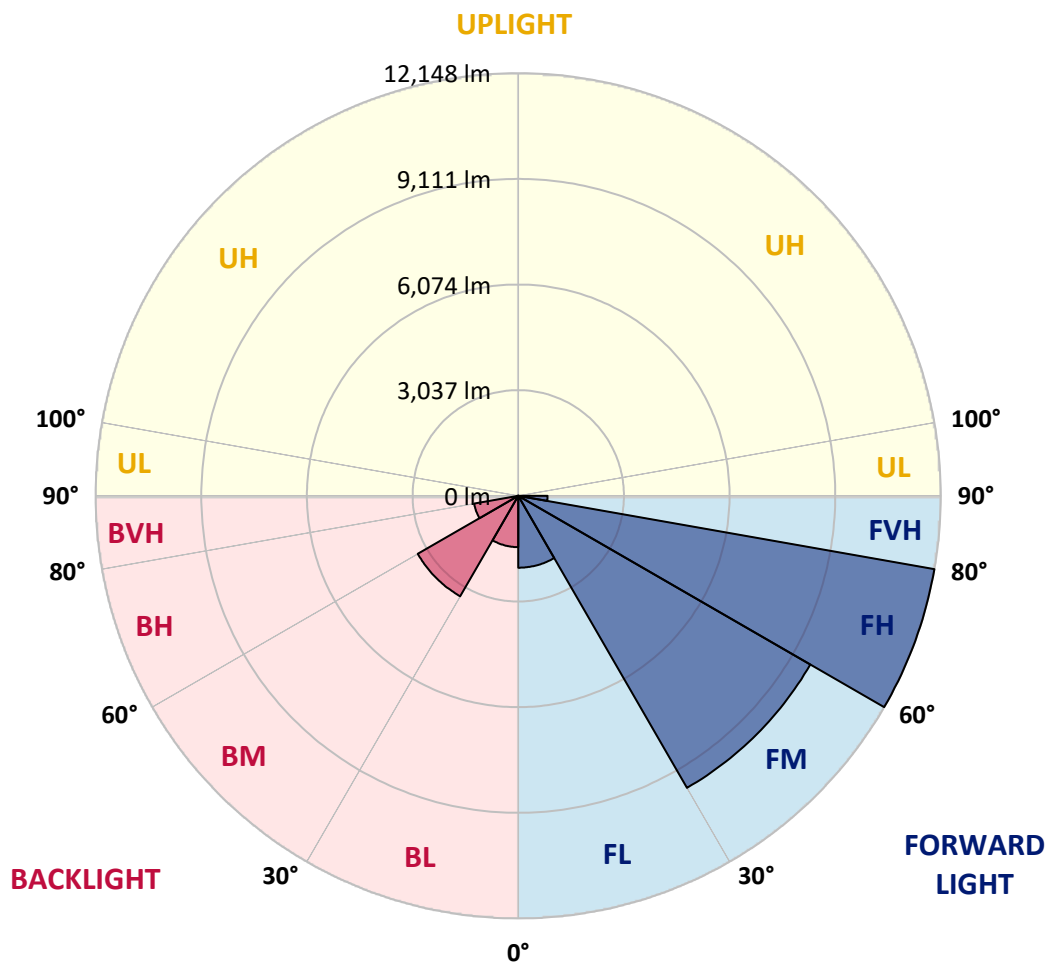
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2067.1	6.7			
FM	(30°-60°)	9694.4	31.4			
FH	(60°-80°)	12147.9	39.3			G5
FVH	(80°-90°)	842.6	2.7			G5
BL	(0°-30°)	1476.4	4.8	B3/2500		
BM	(30°-60°)	3336.1	10.8	B3/5000		
BH	(60°-80°)	1286.5	4.2	B3/2500		G3/2500
BVH	(80°-90°)	41.4	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°	4277.6	4277.6	4277.6	4277.6	4277.6	4277.6	4277.6	4277.6	4277.6	4277.6	4277.6
2.5°	4792.6	4828.8	4909.6	4952.3	5018.2	5022.5	5022.5	4965.0	4962.8	4845.8	4833.1
5°	5356.6	5441.7	5633.3	5831.2	5873.8	5884.4	5863.1	5748.2	5663.0	5435.4	5386.4
7.5°	5916.3	6080.2	6371.7	6635.6	6720.7	6720.7	6669.7	6482.4	6307.8	5978.0	5854.6
10°	6380.2	6586.6	6982.5	7278.3	7376.2	7355.0	7250.6	7014.5	6773.9	6373.9	6212.1
12.5°	6686.7	6918.6	7352.8	7591.2	7691.2	7635.8	7516.7	7286.8	7033.6	6612.2	6429.2
15°	6839.9	7082.5	7459.2	7584.8	7557.1	7499.6	7484.8	7374.1	7182.6	6788.9	6588.8
17.5°	6905.9	7131.5	7393.2	7314.5	7080.4	7035.7	7184.7	7325.2	7278.3	6942.1	6754.9
20°	6967.6	7157.1	7235.8	6886.8	6478.1	6437.7	6722.9	7122.9	7327.3	7084.7	6912.3
22.5°	7052.7	7169.8	7008.0	6435.6	5995.0	5901.4	6216.4	6818.6	7342.2	7265.6	7093.2
25°	7169.8	7201.8	6756.9	6007.8	5565.1	5471.6	5765.2	6480.3	7316.7	7461.4	7314.5
27.5°	7310.3	7244.3	6516.4	5650.3	5222.5	5135.2	5428.9	6154.7	7244.3	7657.2	7552.9
30°	7493.3	7299.6	6278.1	5373.7	4977.8	4914.0	5197.0	5873.8	7154.9	7906.1	7848.7
32.5°	7678.5	7323.0	6056.7	5211.9	4922.5	4945.8	5177.8	5722.7	7057.0	8144.5	8172.1
35°	7878.5	7397.5	5948.3	5371.5	5384.2	5588.6	5684.3	5863.1	7042.2	8467.9	8576.5
37.5°	8150.9	7563.5	6078.0	6165.3	6608.0	7031.5	6952.7	6550.5	7214.5	8951.1	9153.2
40°	8542.5	7855.1	6644.2	7516.7	8425.4	9112.9	8812.7	7799.7	7742.2	9647.0	9949.2
42.5°	9112.9	8319.0	7648.7	9168.1	10709.0	11841.1	11036.7	9410.7	8665.9	10640.8	11026.0
45°	9955.6	9070.2	8863.8	10911.1	13524.5	15308.0	13635.2	11128.2	9959.8	12145.4	12447.7
47.5°	11123.9	10174.8	10002.4	12747.7	16946.6	19253.5	16516.7	12720.0	11432.5	14197.0	14267.3
50°	12675.4	11662.3	11081.4	14756.7	20698.5	23275.8	19396.2	14256.6	13120.2	16704.0	16623.1
52.5°	14722.7	13737.4	12339.2	16670.0	24556.9	27212.9	22288.3	15605.8	15214.3	19613.2	19447.2
55°	17514.8	16859.3	14058.7	18495.9	28413.2	31173.4	25067.7	16878.5	17980.9	23069.4	22064.9
57.5°	20979.5	21447.7	16538.0	20613.5	31880.0	35255.3	27859.8	18657.7	21573.3	26934.1	23584.3
60°	23214.1	27549.1	21286.0	23744.0	35819.2	39871.3	31686.3	22041.4	25348.7	28319.5	23295.0
62.5°	22673.5	29490.1	26972.4	27740.7	39441.4	43227.3	35436.1	25440.1	26059.4	26278.6	21064.6
65°	21015.7	27923.7	25812.6	28517.4	40358.6	43416.7	36438.5	25001.7	22105.3	21454.1	16931.7
67.5°	18734.2	26065.9	23056.6	26457.4	38700.7	40769.4	34572.1	22115.9	17082.9	16099.6	12283.8
70°	16272.0	24010.0	21247.6	24146.2	35540.4	36155.4	31399.0	19451.4	12564.8	10872.8	7882.8
72.5°	13935.3	21869.1	20009.0	21777.6	31324.5	30051.9	27268.2	17095.6	9149.0	7842.3	5603.5
75°	11545.3	18710.9	18244.8	18964.1	25780.6	23671.7	22656.5	14154.4	7180.4	5673.7	3866.9
77.5°	8908.5	14620.5	15693.2	15186.6	18146.9	17583.0	17561.6	10636.6	5246.0	3786.0	2424.0
80°	6097.2	10189.6	12260.3	10713.2	11777.2	11489.9	13226.6	7135.7	3805.2	2279.3	1349.3
82.5°	3583.8	6203.6	8533.9	5186.4	6512.2	6684.5	7876.3	3471.1	2238.8	525.6	293.7
85°	1453.6	2449.5	3337.0	2030.3	3141.2	2649.5	2990.0	974.7	623.5	12.8	0.0
87.5°	366.0	783.2	549.1	227.8	363.9	334.2	263.9	119.2	25.5	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°	4277.6	4277.6	4277.6	4277.6	4277.6	4277.6	4277.6	4277.6	4277.6	4277.6	4277.6
2.5°	4750.1	4701.2	4579.8	4458.5	4360.7	4228.6	4141.4	4037.2	3937.1	3847.7	3830.7
5°	5252.3	5090.6	4869.3	4667.0	4460.6	4260.6	4062.7	3854.1	3662.5	3545.6	3471.1
7.5°	5661.0	5375.7	5082.1	4824.6	4575.6	4341.5	4079.7	3826.4	3526.4	3366.7	3222.1
10°	5965.3	5590.7	5205.5	4909.6	4658.5	4430.9	4209.5	3954.1	3592.3	3392.3	3175.2
12.5°	6165.3	5720.5	5269.3	4931.0	4650.0	4473.4	4375.5	4275.5	3915.8	3681.7	3366.7
15°	6303.6	5812.1	5314.0	4882.0	4537.3	4407.4	4505.3	4620.3	4390.4	4120.1	3709.4
17.5°	6454.7	5931.2	5333.2	4750.1	4318.0	4262.8	4515.9	4782.0	4771.4	4503.2	4101.0
20°	6614.3	6035.5	5320.5	4537.3	4052.0	4101.0	4424.4	4733.0	4862.9	4718.2	4360.7
22.5°	6778.2	6135.5	5271.5	4260.6	3803.1	3956.3	4279.8	4550.0	4703.2	4658.5	4386.2
25°	6984.7	6276.0	5199.1	3962.6	3596.6	3809.4	4111.6	4330.8	4437.2	4435.1	4247.8
27.5°	7231.5	6463.2	5160.8	3722.2	3449.7	3643.5	3911.6	4107.4	4181.9	4181.9	4032.9
30°	7518.8	6684.5	5118.2	3564.6	3364.7	3471.1	3679.6	3871.1	3945.6	3945.6	3820.1
32.5°	7838.1	6897.4	5016.1	3468.9	3300.8	3303.0	3434.9	3609.3	3698.7	3711.5	3622.1
35°	8221.1	7125.1	4792.6	3392.3	3226.3	3139.1	3202.9	3347.6	3454.0	3481.7	3426.4
37.5°	8723.4	7403.9	4473.4	3279.5	3111.4	2966.7	2981.5	3092.2	3209.3	3251.8	3215.6
40°	9398.0	7731.7	4141.4	3117.7	2949.6	2777.2	2770.9	2851.8	2966.7	3013.5	2994.3
42.5°	10289.7	8125.4	3824.3	2962.5	2753.9	2577.3	2566.6	2630.5	2730.4	2779.4	2770.9
45°	11430.4	8608.5	3551.9	2841.1	2562.3	2387.8	2383.5	2436.7	2524.0	2575.1	2564.4
47.5°	13015.9	9091.5	3366.7	2777.2	2411.2	2232.4	2241.0	2287.8	2366.5	2402.7	2387.8
50°	15082.4	9238.4	3273.1	2777.2	2330.3	2094.1	2136.7	2174.9	2234.6	2255.8	2236.8
52.5°	17065.7	8753.2	3188.0	2794.3	2341.0	1977.0	2068.6	2096.2	2147.3	2155.9	2128.2
55°	18038.4	7525.2	3070.9	2798.6	2407.0	1877.1	2013.2	2064.4	2083.5	2081.4	2034.5
57.5°	17704.2	6084.4	2873.1	2781.5	2451.7	1813.2	1945.1	2043.0	2055.8	2036.7	1949.4
60°	16531.6	4479.8	2721.9	2656.0	2434.6	1794.1	1840.9	1996.2	2015.4	1989.8	1847.3
62.5°	14565.1	3109.2	2604.8	2379.3	2360.2	1787.7	1677.0	1894.1	1940.9	1904.8	1696.2
65°	11466.6	2196.3	2243.1	2085.6	2198.4	1753.6	1506.7	1770.7	1834.4	1779.2	1485.4
67.5°	7759.4	1585.5	1817.4	1889.8	1936.6	1677.0	1383.3	1630.2	1715.3	1643.0	1240.8
70°	4190.4	1113.0	1200.3	1591.8	1645.1	1545.1	1272.6	1487.6	1585.5	1506.7	1010.9
72.5°	2475.1	800.2	840.6	1279.0	1370.5	1359.9	1149.2	1321.6	1440.7	1347.2	821.4
75°	1364.2	540.6	600.1	927.9	1113.0	1049.2	987.5	1119.4	1240.8	1149.2	634.2
77.5°	610.8	323.5	417.1	608.6	874.6	719.3	764.0	872.6	985.3	889.6	423.5
80°	236.3	180.9	276.6	332.0	636.3	398.0	491.6	642.7	723.5	647.0	257.5
82.5°	29.8	80.9	119.2	129.9	370.3	210.6	285.2	404.4	398.0	344.8	129.9
85°	0.0	14.9	17.0	8.5	159.6	76.6	93.7	131.9	123.4	93.7	10.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	4277.6	4277.6	4277.6	4277.6	4277.6	4277.6	4277.6	4277.6	4277.6	4277.6	4277.6
2.5°	3726.4	3649.8	3611.5	3579.6	3609.3	3626.4	3626.4	3698.7	3741.4	3758.4	3877.5
5°	3283.8	3141.2	3045.4	2988.0	3007.1	3028.4	3051.8	3143.3	3205.1	3245.5	3430.6
7.5°	2934.8	2717.7	2583.6	2513.4	2524.0	2538.9	2558.1	2647.5	2709.2	2762.4	2968.8
10°	2762.4	2455.9	2279.3	2194.1	2179.3	2170.7	2164.4	2217.6	2264.3	2307.0	2511.2
12.5°	2770.9	2343.1	2128.2	2023.9	1979.2	1928.1	1887.6	1896.1	1926.0	1979.2	2109.0
15°	2879.4	2307.0	2049.4	1919.6	1845.1	1785.6	1736.6	1725.9	1736.6	1745.1	1825.9
17.5°	3026.2	2302.7	1981.3	1819.6	1743.0	1694.0	1649.3	1634.5	1636.5	1647.2	1668.5
20°	3143.3	2290.0	1904.8	1723.8	1655.7	1613.1	1568.5	1553.6	1557.8	1559.9	1583.3
22.5°	3205.1	2270.8	1819.6	1628.0	1570.6	1528.1	1487.6	1485.4	1485.4	1498.2	1515.3
25°	3205.1	2230.3	1743.0	1536.6	1485.4	1447.2	1398.2	1406.7	1411.0	1428.0	1453.6
27.5°	3128.4	2153.7	1681.2	1457.8	1404.6	1366.3	1321.6	1332.2	1338.6	1357.8	1389.7
30°	3030.5	2062.2	1611.0	1383.3	1321.6	1294.0	1255.6	1259.8	1268.4	1289.7	1325.8
32.5°	2926.3	1953.6	1553.6	1308.8	1247.1	1225.8	1183.3	1189.6	1198.1	1221.6	1262.0
35°	2811.3	1825.9	1485.4	1240.8	1179.0	1161.9	1113.0	1117.2	1130.1	1155.6	1196.1
37.5°	2690.0	1721.7	1417.4	1174.8	1110.9	1093.9	1042.8	1047.0	1062.0	1091.7	1130.1
40°	2570.8	1619.5	1345.0	1104.5	1040.7	1025.8	970.5	974.7	991.7	1023.7	1064.1
42.5°	2441.0	1540.8	1251.3	1032.2	964.0	949.1	898.1	904.5	923.6	955.5	996.0
45°	2285.6	1489.7	1147.1	964.0	887.4	872.6	825.7	838.4	859.8	891.7	934.3
47.5°	2126.1	1468.4	1059.8	891.7	808.7	795.9	757.6	778.9	802.4	827.9	874.6
50°	1972.8	1440.7	970.5	823.6	740.6	727.9	702.3	730.0	753.4	776.7	821.4
52.5°	1798.3	1381.2	889.6	764.0	683.2	678.9	666.1	691.7	712.9	734.2	772.5
55°	1617.4	1285.5	819.4	710.8	634.2	638.5	632.0	653.3	670.3	689.5	723.5
57.5°	1459.9	1164.1	764.0	653.3	591.6	604.4	595.9	606.5	617.2	640.6	668.2
60°	1300.3	1019.4	702.3	585.3	549.1	564.0	540.6	538.4	542.6	549.1	600.1
62.5°	1085.4	868.3	625.7	525.6	502.2	508.6	463.9	429.9	429.9	436.2	512.9
65°	872.6	727.9	540.6	457.6	438.4	434.2	370.3	323.5	319.2	338.4	404.4
67.5°	717.2	604.4	455.4	381.0	368.2	372.4	325.6	278.8	274.5	295.8	344.8
70°	593.8	487.4	363.9	293.7	306.5	325.6	278.8	234.1	227.8	246.8	293.7
72.5°	472.4	381.0	278.8	217.1	253.3	276.6	227.8	185.1	180.9	197.9	242.6
75°	346.9	272.4	189.4	157.4	195.8	217.1	165.9	131.9	125.6	140.4	185.1
77.5°	214.9	153.2	119.2	93.7	134.1	144.7	87.2	76.6	74.5	85.2	117.1
80°	100.0	66.0	57.5	31.9	49.0	57.5	36.2	40.4	42.5	51.0	72.4
82.5°	27.7	10.7	2.2	0.0	0.0	17.0	8.5	17.0	21.3	31.9	46.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	10.7	19.2	34.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.5	17.0
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: P971010

CATALOG NUMBER: NAV-SB6C-827-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	4277.6	4277.6	4277.6	4277.6	4277.6	4277.6	4277.6	4277.6
2.5°	3967.0	4052.0	4188.3	4328.7	4467.1	4607.5	4743.7	4792.6
5°	3598.8	3794.6	4064.8	4354.2	4652.2	4954.3	5231.1	5356.6
7.5°	3188.0	3468.9	3875.4	4328.7	4803.3	5277.8	5714.2	5916.3
10°	2749.6	3105.0	3568.9	4181.9	4862.9	5518.3	6118.5	6380.2
12.5°	2332.5	2704.9	3217.8	3952.0	4816.1	5656.7	6378.2	6686.7
15°	1983.5	2313.3	2866.6	3679.6	4665.0	5665.2	6501.6	6839.9
17.5°	1721.7	1936.6	2509.1	3377.4	4467.1	5586.5	6544.1	6905.9
20°	1591.8	1651.5	2045.2	2990.0	4281.8	5511.9	6586.6	6967.6
22.5°	1515.3	1530.1	1672.7	2489.9	4060.5	5488.6	6661.2	7052.7
25°	1453.6	1457.8	1496.1	1972.8	3722.2	5473.6	6776.1	7169.8
27.5°	1391.8	1391.8	1413.1	1589.8	3262.5	5409.8	6925.1	7310.3
30°	1330.1	1330.1	1345.0	1406.7	2724.0	5284.3	7103.9	7493.3
32.5°	1266.3	1266.3	1279.0	1323.7	2174.9	5126.7	7267.7	7678.5
35°	1202.4	1198.1	1215.1	1262.0	1730.2	4926.7	7431.6	7878.5
37.5°	1134.3	1132.2	1149.2	1202.4	1493.9	4694.7	7555.0	8150.9
40°	1062.0	1062.0	1081.1	1138.6	1425.9	4403.2	7750.7	8542.5
42.5°	996.0	991.7	1013.0	1083.2	1374.8	4124.4	8101.9	9112.9
45°	932.1	923.6	942.8	1030.0	1285.5	4026.5	8757.4	9955.6
47.5°	872.6	851.3	868.3	966.2	1204.6	4392.5	9830.1	11123.9
50°	823.6	783.2	798.1	902.3	1142.9	5186.4	11221.8	12675.4
52.5°	772.5	719.3	727.9	823.6	1087.5	5941.8	12730.7	14722.7
55°	719.3	659.7	664.0	744.9	1008.7	6054.7	14203.4	17514.8
57.5°	659.7	604.4	604.4	672.5	951.3	5248.1	15335.5	20979.5
60°	593.8	557.6	546.9	615.0	1002.3	3703.0	15467.6	23214.1
62.5°	521.4	502.2	487.4	559.8	1040.7	2194.1	14405.6	22673.5
65°	438.4	434.2	423.5	615.0	876.8	1296.0	12366.8	21015.7
67.5°	368.2	361.8	361.8	644.8	666.1	815.1	9661.9	18734.2
70°	317.1	293.7	293.7	487.4	404.4	564.0	6746.3	16272.0
72.5°	266.0	240.5	223.4	389.5	302.2	412.9	4215.9	13935.3
75°	212.8	193.6	172.4	257.5	225.6	312.8	2449.5	11545.3
77.5°	153.2	144.7	121.3	189.4	163.9	225.6	1457.8	8908.5
80°	78.7	80.9	76.6	108.5	110.7	153.2	829.9	6097.2
82.5°	46.8	36.2	40.4	53.2	63.9	87.2	312.8	3583.8
85°	29.8	19.2	19.2	25.5	31.9	34.0	95.7	1453.6
87.5°	14.9	6.4	8.5	12.8	10.7	8.5	4.3	366.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)