

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: P971444

Luminaire Tested: **NAV-SB6D-740-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971444
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-SB6D-740-U-SLL-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 4000K, 900mA 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: 51070.6 lumens
Efficiency: N/A
Efficacy: 116.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 440.1
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



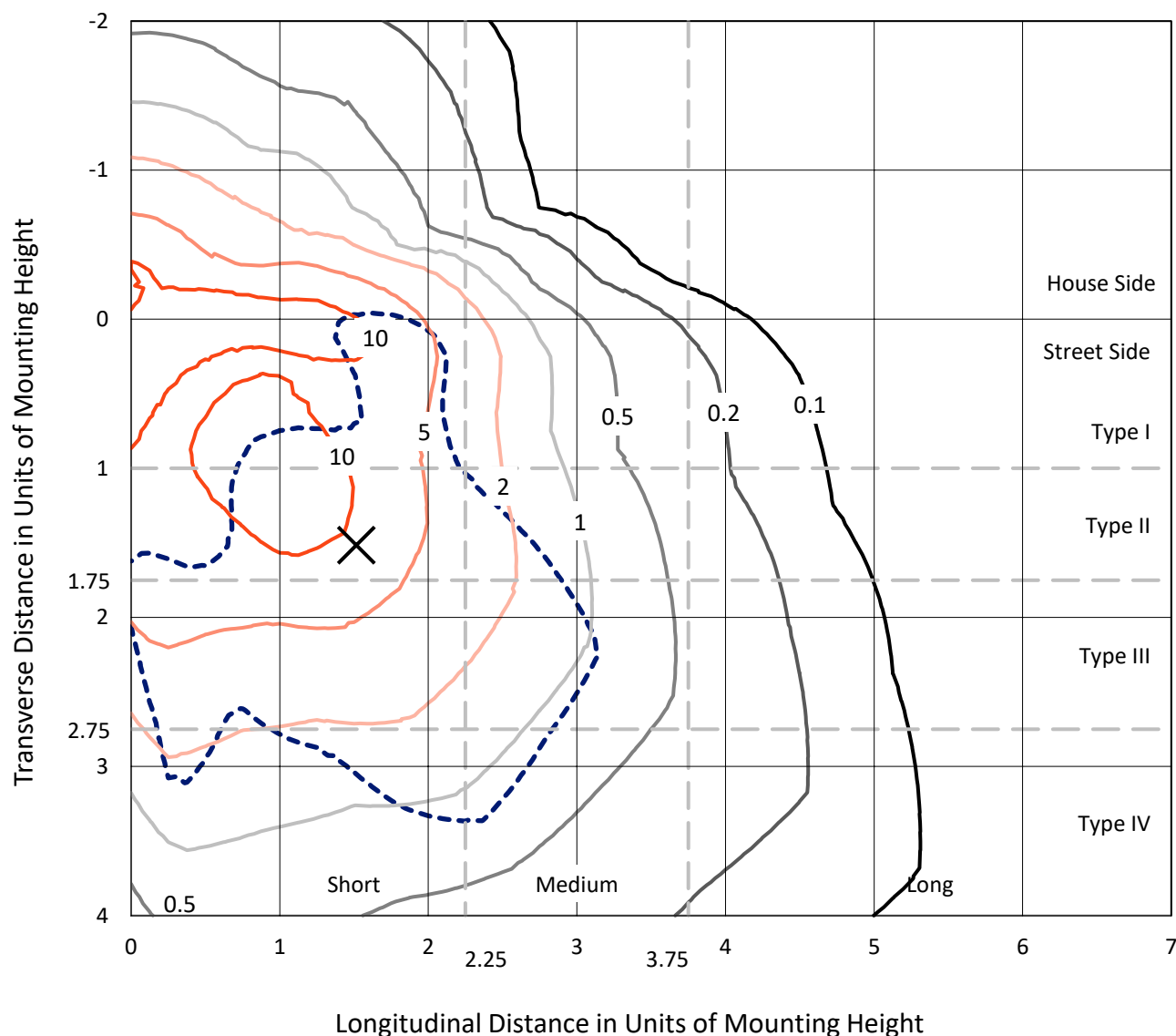
REPORT NUMBER: P971444

CATALOG NUMBER: NAV-SB6D-740-U-SLL-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

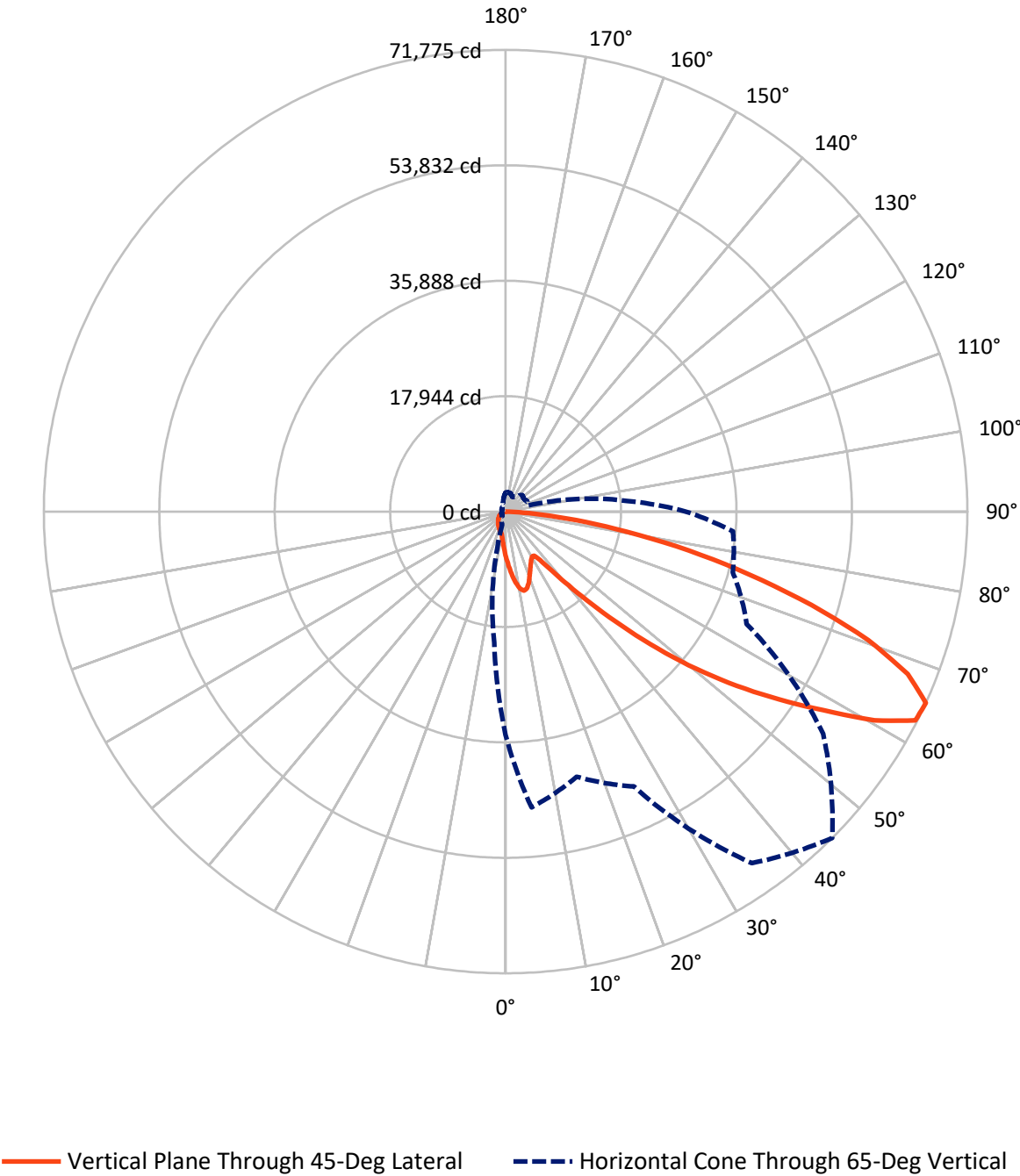


Based on 25 foot mounting height. Maximum calculated value = 18.6 fc

Type IV - Short - N/A

REPORT NUMBER: P971444
CATALOG NUMBER: NAV-SB6D-740-U-SLL-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P971444

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10151.3	0.0	10151.3
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	40919.4	0.0	40919.4
	% Fixture	80.1	0.0	80.1
Total	Lumens	51070.6	0.0	51070.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	696.2	1.4
10°-20°	2087.1	4.1
20°-30°	3074.7	6.0
30°-40°	3950.1	7.7
40°-50°	6388.6	12.5
50°-60°	11203.0	21.9
60°-70°	14018.0	27.4
70°-80°	8191.5	16.0
80°-90°	1461.5	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°	51070.6	100.0
0°-180°	51070.6	100.0

Coefficient of Utilization



REPORT NUMBER: P971444

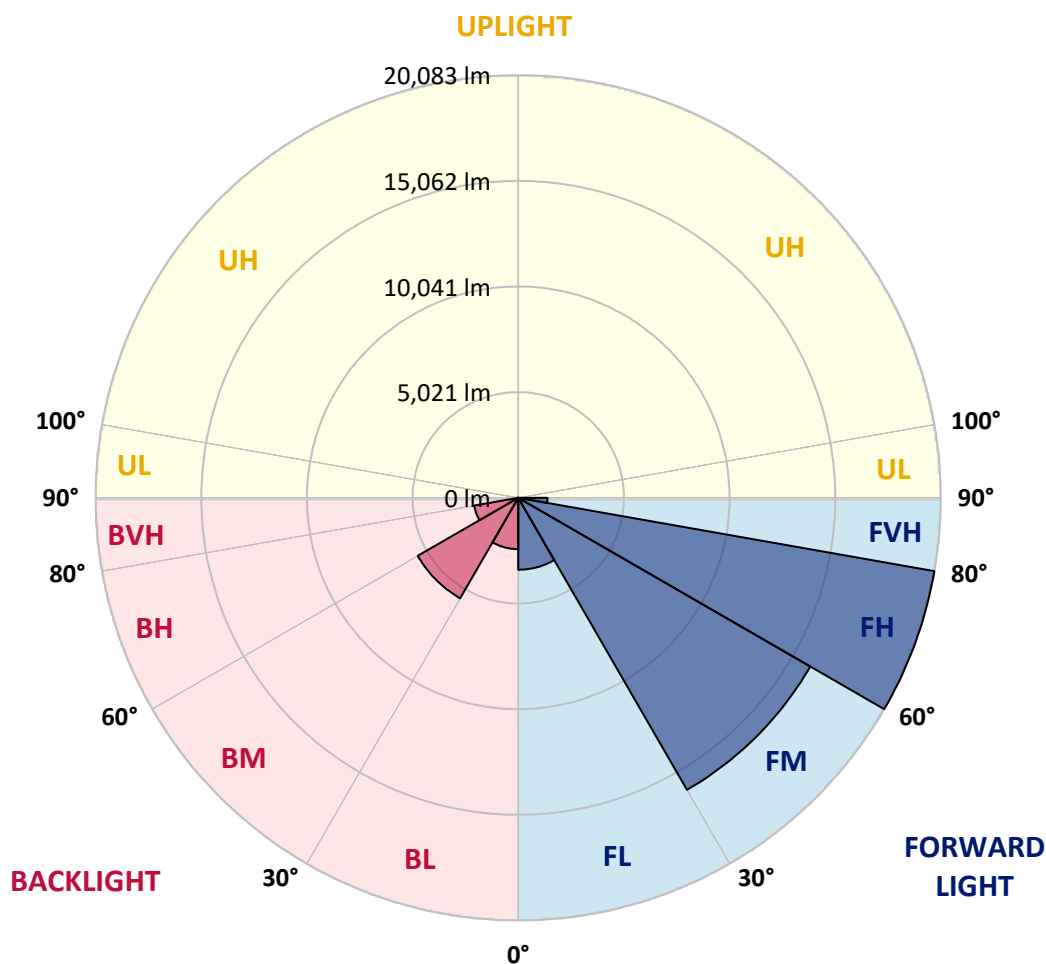
CATALOG NUMBER: NAV-SB6D-740-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3417.2	6.7			
FM	(30°-60°)	16026.6	31.4			
FH	(60°-80°)	20082.6	39.3			G5
FVH	(80°-90°)	1393.0	2.7			G5
BL	(0°-30°)	2440.8	4.8	B3/2500		
BM	(30°-60°)	5515.1	10.8	B4/8500		
BH	(60°-80°)	2126.9	4.2	B3/2500		G3/2500
BVH	(80°-90°)	68.5	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short



REPORT NUMBER: P971444

CATALOG NUMBER: NAV-SB6D-740-U-SLL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7071.7	7071.7	7071.7	7071.7	7071.7	7071.7	7071.7	7071.7	7071.7	7071.7	7071.7
2.5°	7923.0	7982.9	8116.6	8186.9	8296.0	8303.0	8303.0	8208.0	8204.5	8011.0	7989.9
5°	8855.4	8996.1	9312.7	9639.9	9710.3	9727.9	9692.7	9502.8	9362.0	8985.6	8904.7
7.5°	9780.7	10051.6	10533.6	10969.9	11110.6	11110.6	11026.1	10716.6	10428.0	9882.7	9678.7
10°	10547.7	10888.9	11543.3	12032.4	12194.2	12159.1	11986.7	11596.1	11198.5	10537.1	10269.7
12.5°	11054.3	11437.8	12155.5	12549.5	12714.9	12623.4	12426.4	12046.4	11627.8	10931.1	10628.5
15°	11307.6	11708.7	12331.4	12539.0	12493.2	12398.3	12373.6	12190.6	11874.0	11223.1	10892.5
17.5°	11416.7	11789.6	12222.3	12092.1	11705.2	11631.3	11877.6	12109.8	12032.4	11476.5	11166.9
20°	11518.6	11831.8	11962.0	11385.0	10709.5	10642.7	11114.1	11775.5	12113.2	11712.2	11427.2
22.5°	11659.4	11852.9	11585.6	10639.1	9910.8	9756.1	10276.8	11272.4	12137.9	12011.3	11726.3
25°	11852.9	11905.7	11170.3	9931.9	9200.2	9045.4	9530.9	10713.0	12095.7	12335.0	12092.1
27.5°	12085.2	11976.1	10772.9	9340.9	8633.8	8489.5	8975.0	10174.8	11976.1	12658.6	12486.2
30°	12387.7	12067.5	10378.7	8883.6	8229.1	8123.6	8591.6	9710.3	11828.3	13070.2	12975.3
32.5°	12693.8	12106.3	10012.9	8616.2	8137.7	8176.3	8559.9	9460.5	11666.4	13464.3	13510.0
35°	13024.5	12229.4	9833.4	8880.0	8901.1	9238.8	9397.2	9692.7	11641.8	13999.0	14178.5
37.5°	13474.9	12503.8	10048.1	10192.3	10924.1	11624.2	11494.0	10829.1	11926.8	14797.7	15131.9
40°	14122.1	12985.8	10983.9	12426.4	13928.7	15065.0	14569.0	12894.3	12799.4	15948.2	16447.8
42.5°	15065.0	13752.7	12644.5	15156.6	17703.7	19575.4	18245.5	15557.7	14326.2	17591.2	18228.0
45°	16458.3	14994.7	14653.4	18037.9	22358.3	25306.6	22541.3	18396.8	16465.3	20078.5	20578.1
47.5°	18389.8	16820.7	16535.7	21074.2	28015.7	31829.4	27305.0	21028.5	18900.0	23470.1	23586.3
50°	20954.6	19279.9	18319.4	24395.4	34218.3	38478.9	32065.2	23568.6	21689.9	27614.6	27480.9
52.5°	24339.1	22710.2	20398.7	27558.4	40596.9	44987.7	36846.5	25799.2	25151.9	32424.0	32149.6
55°	28955.0	27871.4	23241.5	30577.0	46972.0	51535.1	41441.3	27903.1	29725.5	38137.7	36477.1
57.5°	34682.7	35456.7	27340.2	34077.6	52703.1	58283.0	46057.1	30844.3	35664.4	44526.7	38989.1
60°	38376.9	45543.5	35189.4	39252.9	59215.4	65914.1	52382.9	36438.3	41905.7	46817.1	38510.6
62.5°	37483.2	48752.2	44590.1	45860.1	65203.4	71462.4	58582.1	42057.0	43080.7	43443.1	34823.5
65°	34742.6	46162.7	42672.6	47144.4	66719.8	71775.4	60239.1	41332.2	36543.9	35467.3	27991.0
67.5°	30971.0	43091.3	38116.6	43738.7	63979.1	67398.8	57153.7	36561.4	28240.9	26615.5	20307.2
70°	26900.4	39692.7	35126.0	39917.9	58754.4	59771.2	51908.0	32156.6	20771.6	17974.6	13031.5
72.5°	23037.4	36153.4	33078.4	36002.1	51784.8	49680.9	45079.1	28261.9	15124.9	12964.7	9263.5
75°	19086.4	30932.3	30161.9	31351.0	42619.9	39133.3	37455.1	23399.7	11870.5	9379.6	6392.6
77.5°	14727.3	24170.2	25943.5	25106.1	30000.0	29067.7	29032.4	17584.1	8672.4	6259.0	4007.2
80°	10079.7	16845.3	20268.6	17710.8	19469.9	18994.9	21865.8	11796.6	6290.6	3768.0	2230.6
82.5°	5924.7	10255.6	14108.1	8573.9	10765.8	11050.7	13021.0	5738.3	3701.2	869.0	485.5
85°	2402.9	4049.5	5516.5	3356.4	5193.0	4380.2	4943.2	1611.3	1030.8	21.1	0.0
87.5°	605.2	1294.7	907.7	376.5	601.6	552.4	436.2	197.0	42.2	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: P971444

CATALOG NUMBER: NAV-SB6D-740-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	7071.7	7071.7	7071.7	7071.7	7071.7	7071.7	7071.7	7071.7	7071.7	7071.7	7071.7
2.5°	7852.7	7771.8	7571.3	7370.7	7208.8	6990.7	6846.5	6674.1	6508.7	6360.9	6332.9
5°	8683.0	8415.7	8049.7	7715.5	7374.3	7043.5	6716.3	6371.5	6054.9	5861.4	5738.3
7.5°	9358.5	8887.1	8401.5	7975.8	7564.2	7177.2	6744.5	6325.8	5829.7	5565.9	5326.6
10°	9861.6	9242.4	8605.6	8116.6	7701.4	7325.0	6959.0	6536.8	5938.7	5608.1	5249.2
12.5°	10192.3	9457.1	8711.2	8151.7	7687.3	7395.4	7233.5	7068.1	6473.6	6086.6	5565.9
15°	10421.0	9608.2	8785.1	8070.8	7500.8	7286.2	7448.1	7638.1	7258.1	6811.3	6132.3
17.5°	10670.8	9805.4	8816.6	7852.7	7138.5	7047.0	7465.7	7905.5	7887.9	7444.6	6779.7
20°	10934.7	9977.7	8795.6	7500.8	6698.7	6779.7	7314.4	7824.5	8039.2	7799.9	7208.8
22.5°	11205.6	10143.1	8714.7	7043.5	6287.0	6540.4	7075.2	7522.0	7775.3	7701.4	7251.1
25°	11546.8	10375.3	8595.0	6551.0	5945.8	6297.6	6797.2	7159.6	7335.5	7332.0	7022.4
27.5°	11955.0	10684.9	8531.7	6153.4	5703.1	6023.2	6466.5	6790.2	6913.3	6913.3	6667.0
30°	12429.9	11050.7	8461.4	5893.0	5562.4	5738.3	6083.1	6399.7	6522.8	6522.8	6315.2
32.5°	12957.6	11402.6	8292.5	5734.7	5456.8	5460.3	5678.4	5966.9	6114.6	6135.8	5988.0
35°	13590.9	11779.0	7923.0	5608.1	5333.7	5189.4	5294.9	5534.2	5710.1	5755.8	5664.4
37.5°	14421.2	12239.9	7395.4	5421.6	5143.7	4904.4	4929.0	5112.0	5305.5	5375.8	5316.1
40°	15536.5	12781.7	6846.5	5154.2	4876.2	4591.3	4580.7	4714.4	4904.4	4981.8	4950.1
42.5°	17010.7	13432.6	6322.3	4897.3	4552.6	4260.6	4243.0	4348.6	4513.9	4594.8	4580.7
45°	18896.4	14231.2	5871.9	4696.9	4235.9	3947.5	3940.4	4028.4	4172.7	4257.0	4239.5
47.5°	21517.5	15029.9	5565.9	4591.3	3986.1	3690.6	3704.7	3782.1	3912.3	3972.1	3947.5
50°	24933.7	15272.6	5411.1	4591.3	3852.5	3461.9	3532.4	3595.6	3694.1	3729.4	3697.7
52.5°	28212.7	14470.5	5270.3	4619.5	3870.1	3268.4	3419.7	3465.4	3549.9	3563.9	3518.2
55°	29820.5	12440.4	5076.8	4626.4	3979.2	3103.1	3328.3	3412.6	3444.3	3440.8	3363.4
57.5°	29268.2	10058.6	4749.6	4598.4	4053.1	2997.5	3215.6	3377.5	3398.6	3366.9	3222.7
60°	27329.7	7405.8	4499.9	4390.8	4024.9	2965.8	3043.2	3300.1	3331.8	3289.5	3053.8
62.5°	24078.8	5140.2	4306.3	3933.3	3901.8	2955.3	2772.3	3131.3	3208.7	3148.8	2804.0
65°	18956.2	3630.9	3708.2	3447.9	3634.3	2899.0	2491.0	2927.2	3032.7	2941.2	2455.7
67.5°	12827.5	2621.1	3004.6	3124.2	3201.6	2772.3	2286.9	2694.9	2835.7	2716.0	2051.1
70°	6927.4	1840.1	1984.3	2631.7	2719.6	2554.2	2103.9	2459.3	2621.1	2491.0	1671.2
72.5°	4091.7	1322.9	1389.7	2114.5	2265.8	2248.1	1899.8	2184.8	2381.8	2227.0	1358.0
75°	2255.2	893.6	992.1	1533.9	1840.1	1734.5	1632.4	1850.6	2051.1	1899.8	1048.5
77.5°	1009.7	534.7	689.6	1006.2	1446.0	1189.2	1263.0	1442.5	1628.9	1470.7	700.2
80°	390.5	299.1	457.4	548.9	1052.0	657.9	812.7	1062.5	1196.2	1069.6	425.7
82.5°	49.3	133.7	197.0	214.6	612.1	348.3	471.4	668.5	657.9	570.0	214.6
85°	0.0	24.6	28.2	14.0	263.8	126.7	154.8	218.1	204.1	154.8	17.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.1	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: P971444

CATALOG NUMBER: NAV-SB6D-740-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	7071.7	7071.7	7071.7	7071.7	7071.7	7071.7	7071.7	7071.7	7071.7	7071.7	7071.7
2.5°	6160.5	6033.8	5970.4	5917.6	5966.9	5995.0	5995.0	6114.6	6185.1	6213.2	6410.2
5°	5428.6	5193.0	5034.6	4939.6	4971.2	5006.4	5045.2	5196.4	5298.4	5365.3	5671.4
7.5°	4851.6	4492.8	4271.2	4155.0	4172.7	4197.3	4228.9	4376.6	4478.7	4566.7	4907.9
10°	4566.7	4060.0	3768.0	3627.3	3602.7	3588.6	3578.1	3666.0	3743.4	3813.7	4151.6
12.5°	4580.7	3873.6	3518.2	3345.8	3272.0	3187.5	3120.7	3134.8	3184.0	3272.0	3486.5
15°	4760.2	3813.7	3388.0	3173.4	3050.3	2951.8	2870.9	2853.3	2870.9	2885.0	3018.6
17.5°	5002.9	3806.7	3275.5	3008.1	2881.5	2800.5	2726.6	2702.0	2705.5	2723.1	2758.3
20°	5196.4	3785.6	3148.8	2849.8	2737.2	2666.8	2592.9	2568.3	2575.3	2578.9	2617.5
22.5°	5298.4	3754.0	3008.1	2691.4	2596.4	2526.1	2459.3	2455.7	2455.7	2476.8	2505.0
25°	5298.4	3687.1	2881.5	2540.2	2455.7	2392.4	2311.5	2325.5	2332.6	2360.8	2402.9
27.5°	5171.8	3560.4	2779.4	2410.0	2322.0	2258.7	2184.8	2202.4	2213.0	2244.6	2297.4
30°	5010.0	3409.2	2663.3	2286.9	2184.8	2139.1	2075.7	2082.8	2096.8	2132.0	2191.9
32.5°	4837.6	3229.8	2568.3	2163.7	2061.7	2026.5	1956.1	1966.7	1980.8	2019.5	2086.3
35°	4647.6	3018.6	2455.7	2051.1	1949.1	1921.0	1840.1	1847.0	1868.2	1910.4	1977.2
37.5°	4447.1	2846.2	2343.1	1942.1	1836.5	1808.4	1723.9	1731.0	1755.6	1804.8	1868.2
40°	4250.1	2677.4	2223.5	1825.9	1720.5	1695.8	1604.3	1611.3	1639.5	1692.3	1759.1
42.5°	4035.4	2547.2	2068.8	1706.3	1593.8	1569.2	1484.7	1495.3	1526.9	1579.7	1646.6
45°	3778.6	2462.8	1896.4	1593.8	1467.1	1442.5	1365.1	1386.2	1421.4	1474.2	1544.5
47.5°	3514.7	2427.6	1752.0	1474.2	1336.9	1315.8	1252.4	1287.7	1326.4	1368.6	1446.0
50°	3261.4	2381.8	1604.3	1361.5	1224.4	1203.2	1161.0	1206.7	1245.5	1284.1	1358.0
52.5°	2972.9	2283.3	1470.7	1263.0	1129.3	1122.3	1101.2	1143.4	1178.6	1213.8	1277.1
55°	2673.8	2125.0	1354.5	1175.1	1048.5	1055.4	1044.9	1080.1	1108.2	1139.9	1196.2
57.5°	2413.5	1924.4	1263.0	1080.1	978.1	999.2	985.1	1002.7	1020.3	1059.0	1104.7
60°	2149.6	1685.2	1161.0	967.5	907.7	932.3	893.6	890.1	897.2	907.7	992.1
62.5°	1794.3	1435.4	1034.3	869.0	830.4	840.8	767.0	710.6	710.6	721.2	847.9
65°	1442.5	1203.2	893.6	756.4	724.8	717.7	612.1	534.7	527.8	559.4	668.5
67.5°	1185.6	999.2	752.9	629.8	608.6	615.7	538.3	460.8	453.9	489.0	570.0
70°	981.5	805.6	601.6	485.5	506.7	538.3	460.8	387.0	376.5	408.2	485.5
72.5°	781.0	629.8	460.8	358.9	418.7	457.4	376.5	306.1	299.1	327.2	401.1
75°	573.5	450.4	313.1	260.3	323.7	358.9	274.4	218.1	207.6	232.2	306.1
77.5°	355.4	253.3	197.0	154.8	221.6	239.2	144.2	126.7	123.1	140.7	193.5
80°	165.3	109.1	95.0	52.8	80.9	95.0	59.9	66.8	70.3	84.5	119.6
82.5°	45.7	17.6	3.5	0.0	0.0	28.2	14.0	28.2	35.2	52.8	77.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.1	17.6	31.7	56.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.0	28.2
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: P971444

CATALOG NUMBER: NAV-SB6D-740-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	7071.7	7071.7	7071.7	7071.7	7071.7	7071.7	7071.7	7071.7
2.5°	6558.0	6698.7	6923.9	7156.0	7384.8	7617.0	7842.2	7923.0
5°	5949.3	6273.0	6719.8	7198.3	7690.9	8190.5	8647.8	8855.4
7.5°	5270.3	5734.7	6406.7	7156.0	7940.7	8725.2	9446.5	9780.7
10°	4545.6	5133.1	5900.1	6913.3	8039.2	9122.8	10114.9	10547.7
12.5°	3855.9	4471.7	5319.5	6533.3	7961.8	9351.5	10544.2	11054.3
15°	3279.0	3824.3	4739.1	6083.1	7712.0	9365.5	10748.2	11307.6
17.5°	2846.2	3201.6	4148.0	5583.5	7384.8	9235.4	10818.6	11416.7
20°	2631.7	2730.2	3381.1	4943.2	7078.6	9112.2	10888.9	11518.6
22.5°	2505.0	2529.6	2765.3	4116.3	6712.8	9073.5	11012.1	11659.4
25°	2402.9	2410.0	2473.3	3261.4	6153.4	9048.9	11202.0	11852.9
27.5°	2300.9	2300.9	2336.1	2628.1	5393.4	8943.3	11448.3	12085.2
30°	2198.9	2198.9	2223.5	2325.5	4503.3	8735.8	11743.8	12387.7
32.5°	2093.4	2093.4	2114.5	2188.4	3595.6	8475.4	12014.7	12693.8
35°	1987.8	1980.8	2008.9	2086.3	2860.4	8144.8	12285.6	13024.5
37.5°	1875.2	1871.6	1899.8	1987.8	2469.8	7761.2	12489.7	13474.9
40°	1755.6	1755.6	1787.3	1882.2	2357.2	7279.2	12813.4	14122.1
42.5°	1646.6	1639.5	1674.6	1790.8	2272.7	6818.3	13393.9	15065.0
45°	1541.0	1526.9	1558.6	1702.8	2125.0	6656.5	14477.5	16458.3
47.5°	1442.5	1407.3	1435.4	1597.3	1991.4	7261.6	16250.8	18389.8
50°	1361.5	1294.7	1319.4	1491.7	1889.3	8573.9	18551.7	20954.6
52.5°	1277.1	1189.2	1203.2	1361.5	1797.8	9822.9	21046.0	24339.1
55°	1189.2	1090.7	1097.7	1231.3	1667.7	10009.3	23480.7	28955.0
57.5°	1090.7	999.2	999.2	1111.7	1572.7	8676.0	25352.4	34682.7
60°	981.5	921.8	904.2	1016.8	1657.1	6121.7	25570.5	38376.9
62.5°	861.9	830.4	805.6	925.3	1720.5	3627.3	23815.0	37483.2
65°	724.8	717.7	700.2	1016.8	1449.6	2142.6	20444.4	34742.6
67.5°	608.6	598.1	598.1	1066.0	1101.2	1347.5	15972.8	30971.0
70°	524.2	485.5	485.5	805.6	668.5	932.3	11152.8	26900.4
72.5°	439.8	397.6	369.4	643.8	499.6	682.5	6969.6	23037.4
75°	351.8	320.2	285.0	425.7	372.9	517.2	4049.5	19086.4
77.5°	253.3	239.2	200.5	313.1	270.9	372.9	2410.0	14727.3
80°	130.2	133.7	126.7	179.5	183.0	253.3	1372.1	10079.7
82.5°	77.4	59.9	66.8	87.9	105.6	144.2	517.2	5924.7
85°	49.3	31.7	31.7	42.2	52.8	56.3	158.4	2402.9
87.5°	24.6	10.6	14.0	21.1	17.6	14.0	7.1	605.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)