

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: P964691

Luminaire Tested: **NAV-SB3C-827-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964691
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3C-827-U-T2-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

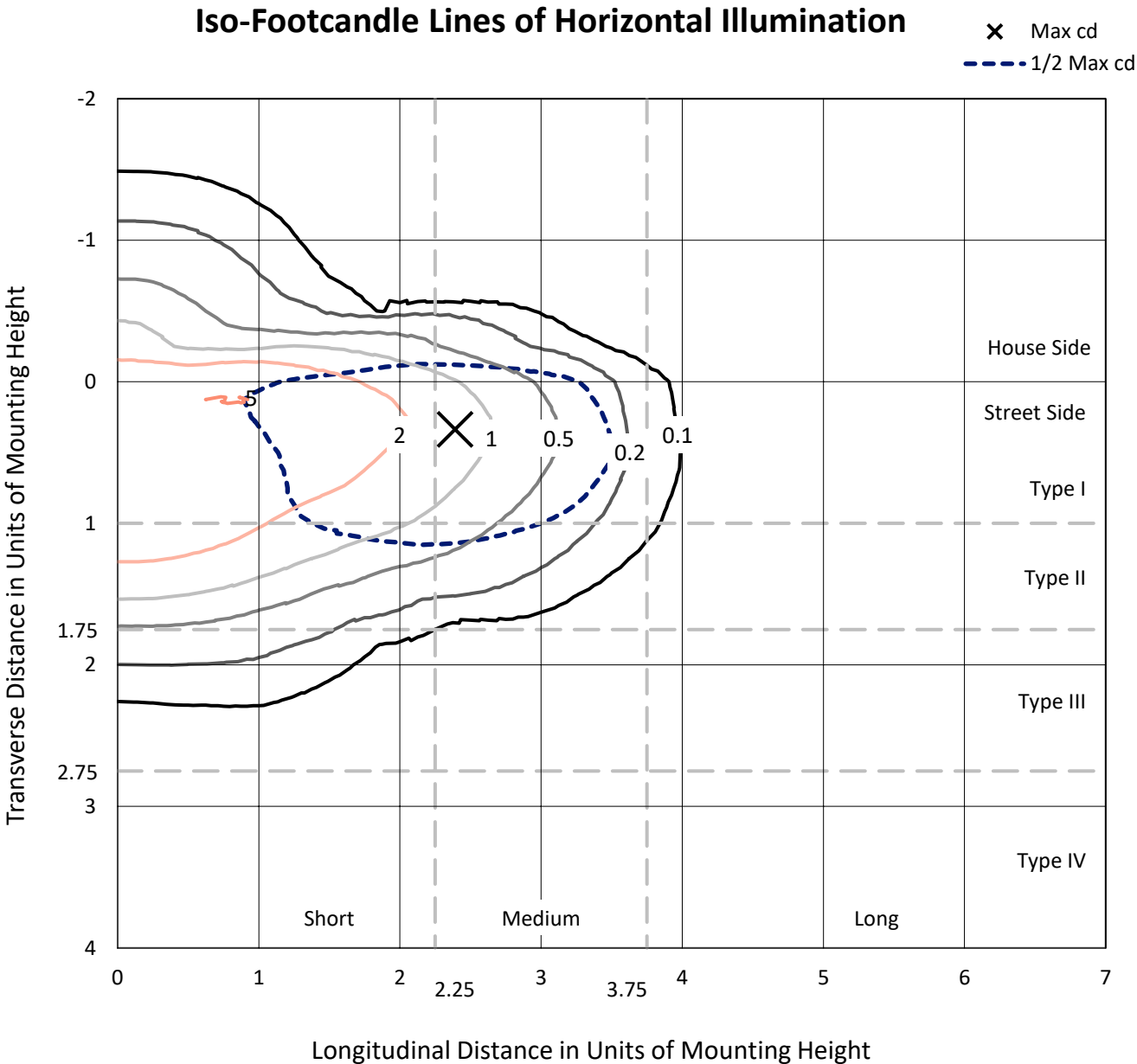
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14624.7 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 149.1
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



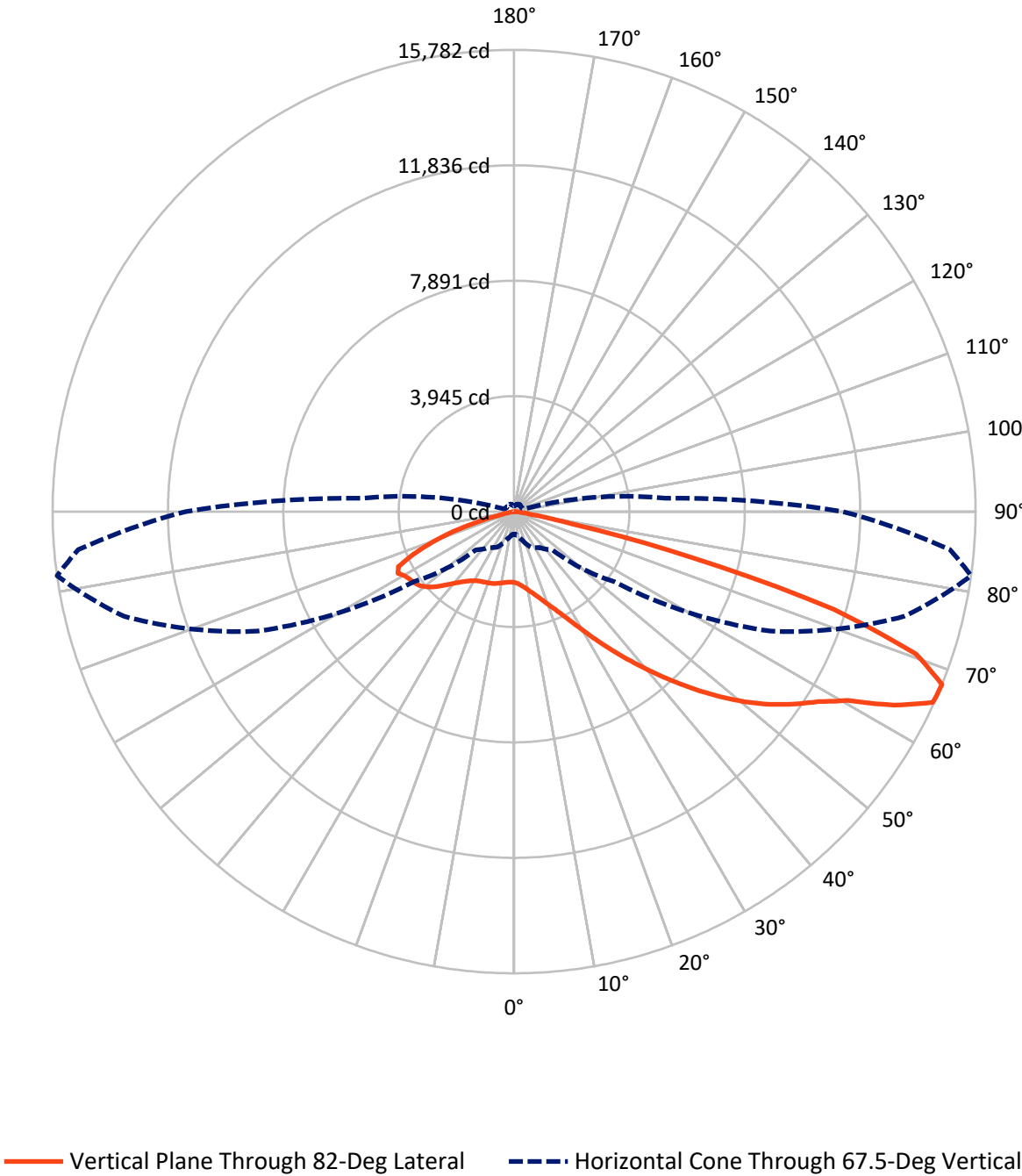
REPORT NUMBER: P964691
CATALOG NUMBER: NAV-SB3C-827-U-T2-HSS



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
Type II - Medium - N/A

REPORT NUMBER: P964691
CATALOG NUMBER: NAV-SB3C-827-U-T2-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P964691

CATALOG NUMBER: NAV-SB3C-827-U-T2-HSS

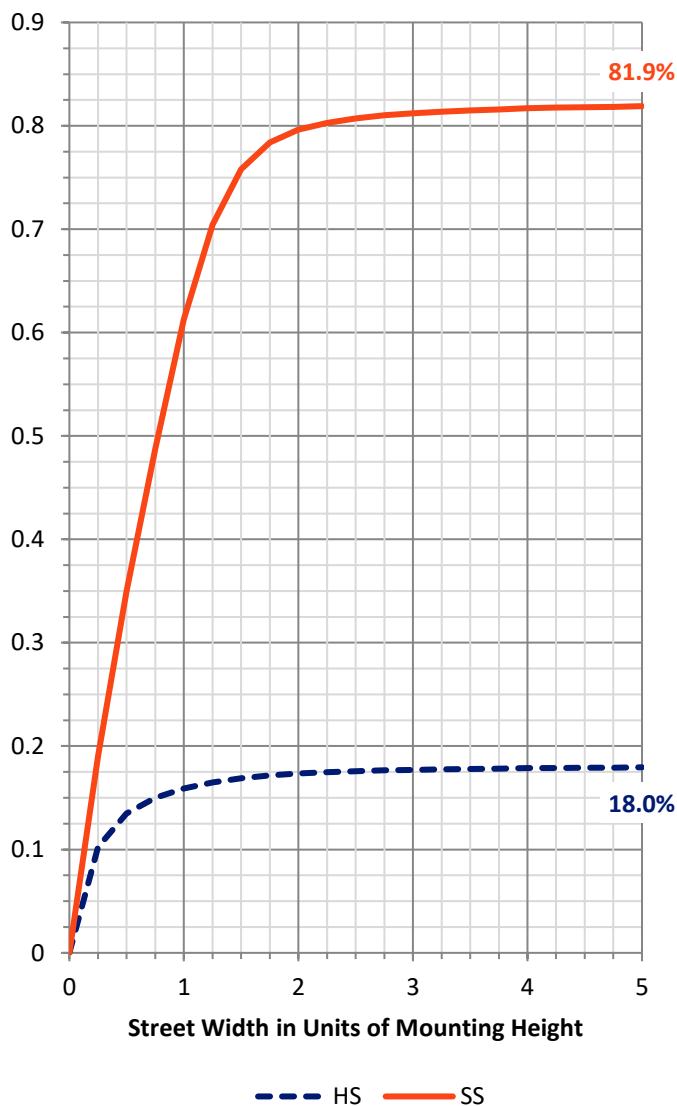
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2649.1	0.0	2649.1
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	11975.6	0.0	11975.6
	% Fixture	81.9	0.0	81.9
Total	Lumens	14624.7	0.0	14624.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.9	1.5
10°-20°	560.9	3.8
20°-30°	898.4	6.1
30°-40°	1588.7	10.9
40°-50°	2783.5	19.0
50°-60°	3712.4	25.4
60°-70°	3456.1	23.6
70°-80°	1326.4	9.1
80°-90°	82.4	0.6
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°	14624.7	100.0
0°-180°	14624.7	100.0

Coefficient of Utilization



REPORT NUMBER: P964691

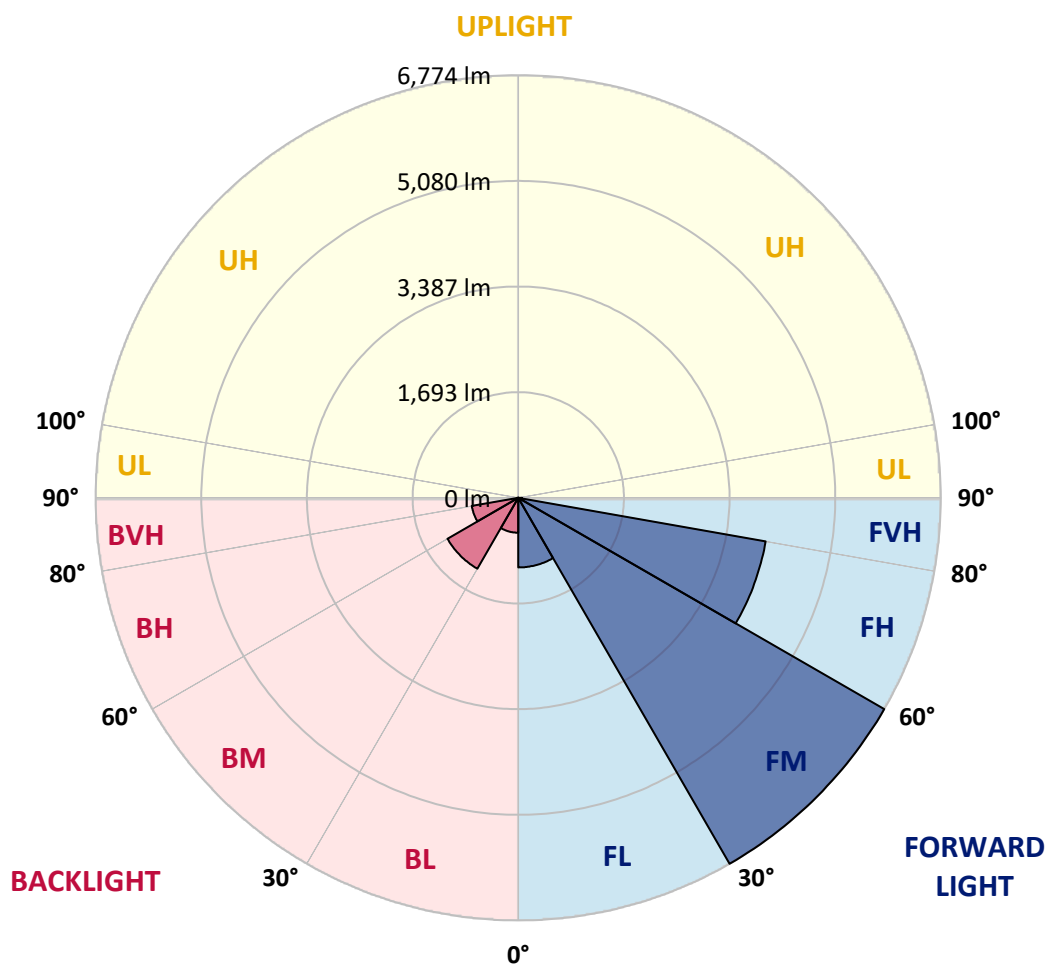
CATALOG NUMBER: NAV-SB3C-827-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1115.7	7.6			
FM	(30°-60°)	6773.6	46.3			
FH	(60°-80°)	4026.4	27.5			G2/5000
FVH	(80°-90°)	59.9	0.4			G1/100
BL	(0°-30°)	559.5	3.8	B2/1000		
BM	(30°-60°)	1311.0	9.0	B2/2500		
BH	(60°-80°)	756.1	5.2	B2/1000		G2/1000
BVH	(80°-90°)	22.5	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium



REPORT NUMBER: P964691

CATALOG NUMBER: NAV-SB3C-827-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	2422.8	2422.8	2422.8	2422.8	2422.8	2422.8	2422.8	2422.8	2422.8	2422.8	2422.8
2.5°	2560.8	2575.5	2567.1	2562.9	2555.5	2545.0	2536.6	2510.2	2482.9	2464.9	2458.7
5°	2612.3	2627.1	2626.0	2630.3	2635.5	2638.7	2636.6	2607.1	2568.1	2537.6	2519.7
7.5°	2568.1	2584.9	2598.7	2619.7	2656.6	2695.5	2714.5	2708.2	2668.2	2626.0	2603.9
10°	2442.8	2460.7	2493.4	2542.8	2620.7	2705.0	2775.6	2808.2	2782.9	2736.5	2706.1
12.5°	2213.3	2231.2	2295.4	2402.8	2533.4	2679.8	2814.5	2901.9	2908.2	2861.9	2826.1
15°	1955.3	1973.2	2041.7	2176.4	2375.4	2610.3	2835.6	3000.9	3056.7	3016.7	2973.5
17.5°	1795.3	1811.1	1862.6	1971.1	2178.5	2471.3	2828.2	3106.2	3233.6	3202.0	3150.4
20°	1746.8	1760.5	1784.7	1860.6	2033.2	2327.0	2779.8	3205.2	3424.1	3406.3	3348.4
22.5°	1798.5	1811.1	1818.5	1852.1	1960.6	2232.2	2718.7	3306.2	3645.3	3647.4	3576.8
25°	1917.4	1930.1	1921.6	1942.7	1990.0	2202.7	2695.5	3425.2	3923.3	3946.5	3866.4
27.5°	2113.2	2114.3	2094.3	2093.3	2100.6	2247.0	2719.7	3552.6	4273.8	4317.1	4218.1
30°	2506.0	2490.2	2413.4	2330.1	2292.2	2379.6	2787.2	3703.2	4687.7	4764.6	4640.3
32.5°	3111.5	3088.3	2947.2	2748.1	2548.1	2593.4	2908.2	3874.8	5138.3	5277.3	5125.7
35°	3768.5	3762.2	3614.8	3318.8	2969.3	2897.7	3105.1	4100.1	5630.1	5851.2	5671.1
37.5°	4379.2	4376.0	4291.8	3943.3	3517.9	3322.0	3421.0	4395.0	6156.6	6476.7	6264.0
40°	4937.2	4946.8	4862.5	4550.8	4122.2	3866.4	3850.6	4759.3	6741.9	7157.9	6905.2
42.5°	5419.5	5430.0	5344.8	5114.1	4719.3	4468.7	4378.1	5205.8	7313.7	7889.7	7590.6
45°	5747.0	5812.3	5799.6	5615.4	5332.0	5072.0	5012.0	5765.9	7965.5	8665.7	8315.1
47.5°	5839.6	5899.6	5994.4	6019.6	5847.0	5591.1	5662.7	6440.8	8624.7	9442.8	9043.7
50°	5611.2	5666.9	5863.8	6126.0	6246.0	6167.1	6295.5	7164.2	9299.6	10217.7	9758.6
52.5°	5160.5	5217.4	5465.8	5880.6	6370.3	6618.8	6930.4	7877.0	9953.5	10951.6	10435.7
55°	4508.7	4568.7	4887.7	5357.4	6133.4	6805.2	7460.1	8588.9	10552.6	11611.8	11046.4
57.5°	3622.1	3666.3	3998.0	4655.0	5537.5	6619.9	7850.7	9365.9	11116.9	12260.4	11651.9
60°	2360.7	2399.6	2785.0	3517.9	4549.8	6000.8	7928.7	10232.5	11866.6	13103.8	12467.9
62.5°	1569.9	1596.2	1824.7	2362.8	3204.1	4812.0	7472.8	10924.2	12965.9	14571.6	13867.2
65°	1077.2	1103.5	1332.0	1706.8	2070.1	3183.0	6161.8	10832.6	13962.0	15737.2	14904.4
67.5°	768.6	790.8	984.5	1338.2	1498.3	1849.0	4177.0	9661.8	13818.8	15781.5	14960.2
70°	550.7	563.3	723.3	1042.4	1190.8	1110.9	2322.8	7389.5	12099.3	14572.7	13820.9
72.5°	385.4	389.6	502.2	794.0	959.2	810.8	1105.6	4926.7	9151.1	11438.1	10714.7
75°	261.2	266.4	338.0	582.3	769.7	619.1	585.5	2641.8	5372.1	6331.3	5675.3
77.5°	160.0	162.2	217.9	398.0	575.9	471.7	377.0	1119.3	2078.5	2040.6	1739.4
80°	90.5	90.5	139.0	247.4	392.8	304.3	264.2	475.9	658.0	578.1	509.6
82.5°	50.5	51.6	101.1	153.8	260.0	180.1	145.3	220.1	284.3	251.6	219.0
85°	21.0	23.2	62.1	72.7	124.2	89.5	58.9	92.7	105.3	93.7	68.5
87.5°	2.2	3.2	19.0	13.7	14.8	17.9	8.4	17.9	14.8	14.8	10.6
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: P964691

CATALOG NUMBER: NAV-SB3C-827-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2422.8	2422.8	2422.8	2422.8	2422.8	2422.8	2422.8	2422.8	2422.8	2422.8	2422.8
2.5°	2438.6	2422.8	2382.8	2336.5	2275.4	2245.9	2205.9	2178.5	2155.4	2157.5	2136.4
5°	2486.0	2446.0	2356.5	2244.9	2105.9	2007.0	1901.6	1829.0	1770.0	1757.4	1729.0
7.5°	2551.3	2488.1	2331.3	2130.1	1895.3	1717.4	1558.3	1456.2	1383.5	1360.4	1337.2
10°	2635.5	2543.9	2298.6	1985.8	1647.9	1421.5	1250.9	1170.9	1121.4	1104.5	1091.9
12.5°	2733.5	2608.1	2255.4	1810.0	1393.1	1175.1	1066.6	1026.6	1010.9	1005.5	1002.4
15°	2856.7	2688.2	2190.1	1601.6	1177.2	1024.5	978.2	972.9	975.0	972.9	971.9
17.5°	3002.9	2775.6	2083.7	1386.7	1031.9	947.6	930.8	935.0	940.2	939.2	937.2
20°	3163.0	2861.9	1947.9	1196.2	933.0	892.9	883.4	887.6	891.9	889.7	888.7
22.5°	3345.2	2954.6	1797.3	1047.7	866.5	842.3	831.8	832.9	832.9	828.7	826.6
25°	3563.1	3056.7	1639.4	942.4	816.0	797.0	784.4	780.2	773.9	761.3	759.2
27.5°	3823.2	3165.1	1487.8	868.7	776.0	758.1	743.3	732.9	717.1	696.0	693.9
30°	4116.0	3296.8	1359.4	822.4	744.5	726.5	709.7	693.9	670.8	644.4	642.3
32.5°	4460.3	3437.8	1265.7	791.8	716.0	697.0	677.0	658.0	632.8	606.5	607.5
35°	4870.9	3608.4	1210.8	770.8	693.9	668.6	646.5	625.5	606.5	583.3	581.2
37.5°	5316.3	3789.5	1194.0	760.2	679.2	640.2	614.9	600.1	598.1	584.4	583.3
40°	5803.9	4004.4	1206.6	753.9	663.4	612.8	585.5	582.3	587.5	563.3	564.4
42.5°	6319.7	4259.2	1227.7	746.5	641.2	585.5	559.1	559.1	554.9	521.2	521.2
45°	6877.9	4552.9	1248.8	728.7	614.9	558.0	538.0	530.6	512.8	480.1	479.1
47.5°	7440.1	4851.9	1264.5	696.0	583.3	534.8	517.0	500.1	473.9	444.3	443.3
50°	7973.9	5120.5	1247.7	647.6	547.6	512.8	493.8	470.7	442.2	422.2	419.0
52.5°	8450.9	5353.2	1176.1	590.7	509.6	489.6	472.7	448.5	425.4	404.4	402.2
55°	8865.7	5541.7	1049.8	537.0	475.9	469.7	452.7	422.2	390.6	372.7	370.6
57.5°	9263.7	5684.9	891.9	492.8	445.4	447.5	422.2	394.8	365.4	346.4	344.3
60°	9793.4	5876.4	731.7	451.7	412.8	419.0	391.7	371.7	334.9	310.6	307.5
62.5°	10640.0	6174.5	581.2	401.2	374.8	377.0	365.4	341.1	296.9	268.5	266.4
65°	11311.8	6064.9	458.1	346.4	331.7	334.9	334.9	308.5	261.2	228.5	225.3
67.5°	11235.9	5193.1	365.4	292.7	290.6	292.7	300.1	278.0	231.6	205.3	201.1
70°	10350.4	4130.6	292.7	243.2	252.7	247.4	268.5	253.8	208.5	182.1	179.0
72.5°	8445.7	2975.6	223.2	201.1	193.7	202.1	242.2	228.5	173.7	144.2	141.1
75°	4935.2	1587.8	166.4	159.0	140.0	168.5	214.8	194.7	132.6	106.4	103.2
77.5°	1606.8	553.8	122.2	116.8	104.2	135.8	183.2	164.3	108.4	84.3	81.1
80°	430.6	167.4	83.2	76.9	67.3	101.1	145.3	130.6	77.9	54.7	53.7
82.5°	172.7	70.5	48.5	43.2	36.9	69.5	114.8	105.3	57.9	34.7	34.7
85°	55.8	23.2	17.9	13.7	16.8	43.2	68.5	71.6	41.1	17.9	13.7
87.5°	7.4	3.2	3.2	4.2	3.2	7.4	21.0	20.0	11.6	2.2	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

(END OF REPORT)