

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: P960456

Luminaire Tested: **NAV-SB1C-760-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960456
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1C-760-U-T4W-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 5700K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV WIDE OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6257.6 lumens
Efficiency: N/A
Efficacy: 115.0 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

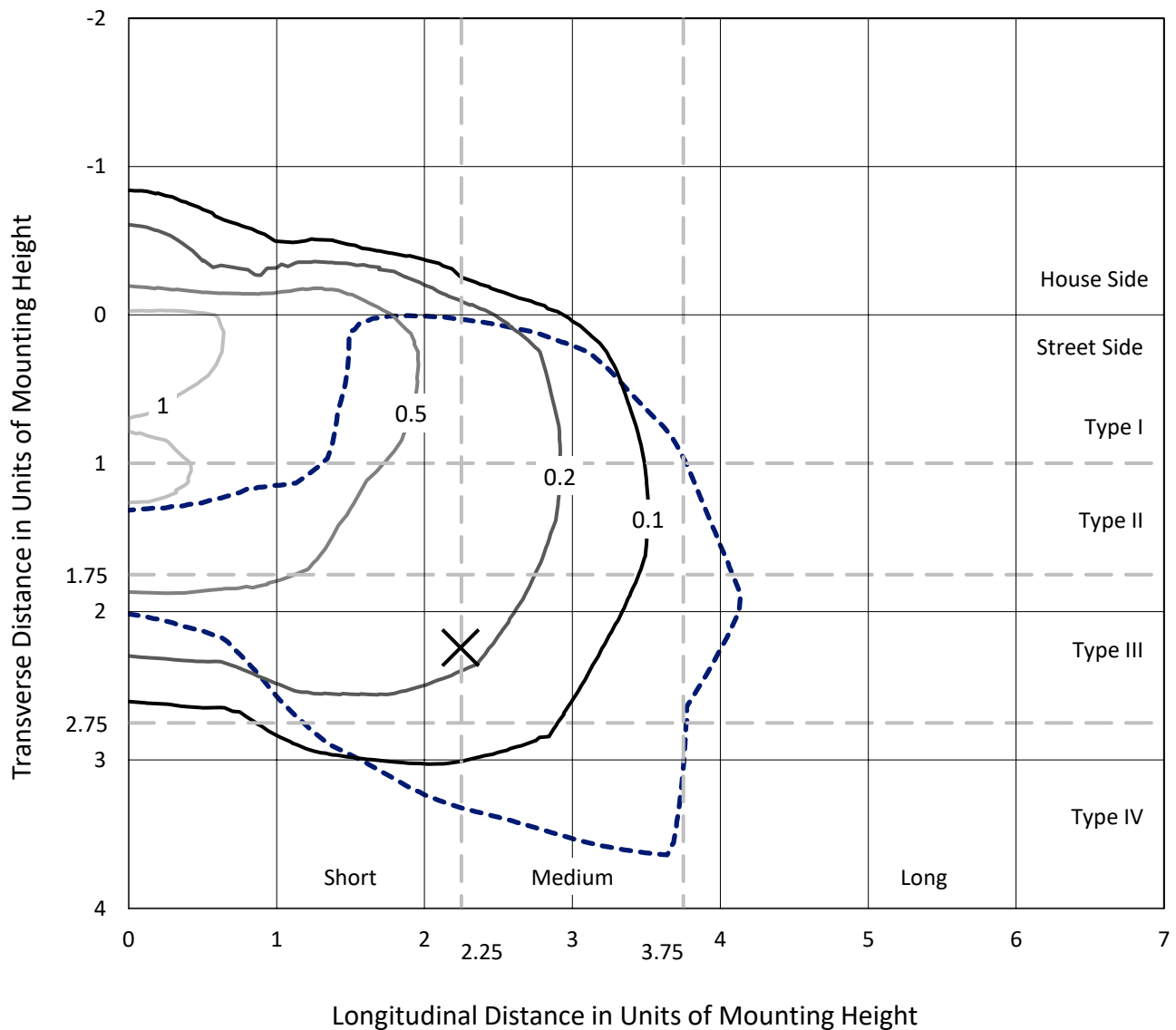
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P960456
CATALOG NUMBER: NAV-SB1C-760-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

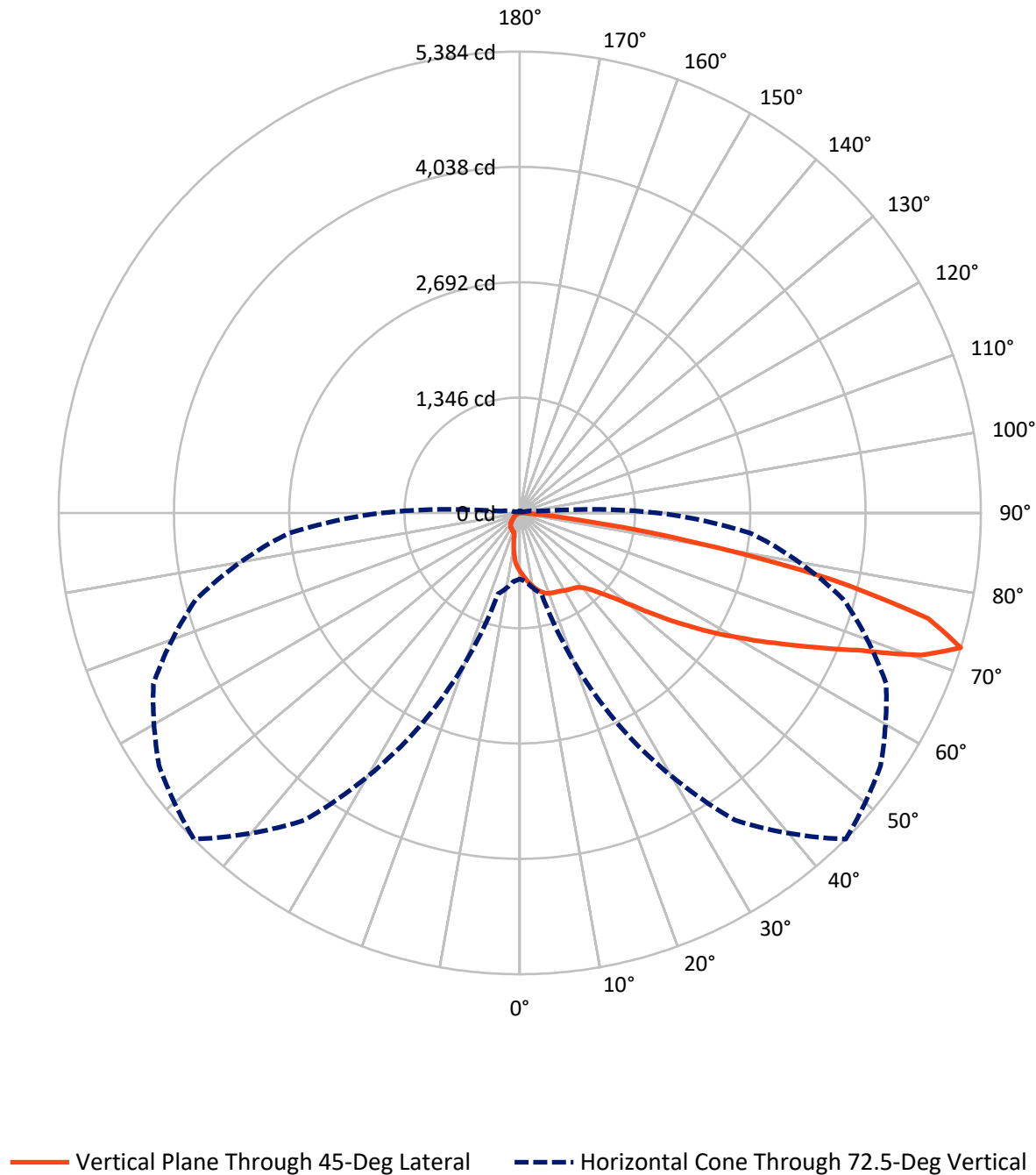
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
Type IV - Short - N/A

REPORT NUMBER: P960456
CATALOG NUMBER: NAV-SB1C-760-U-T4W-HSS

Luminous Intensity Polar Plot



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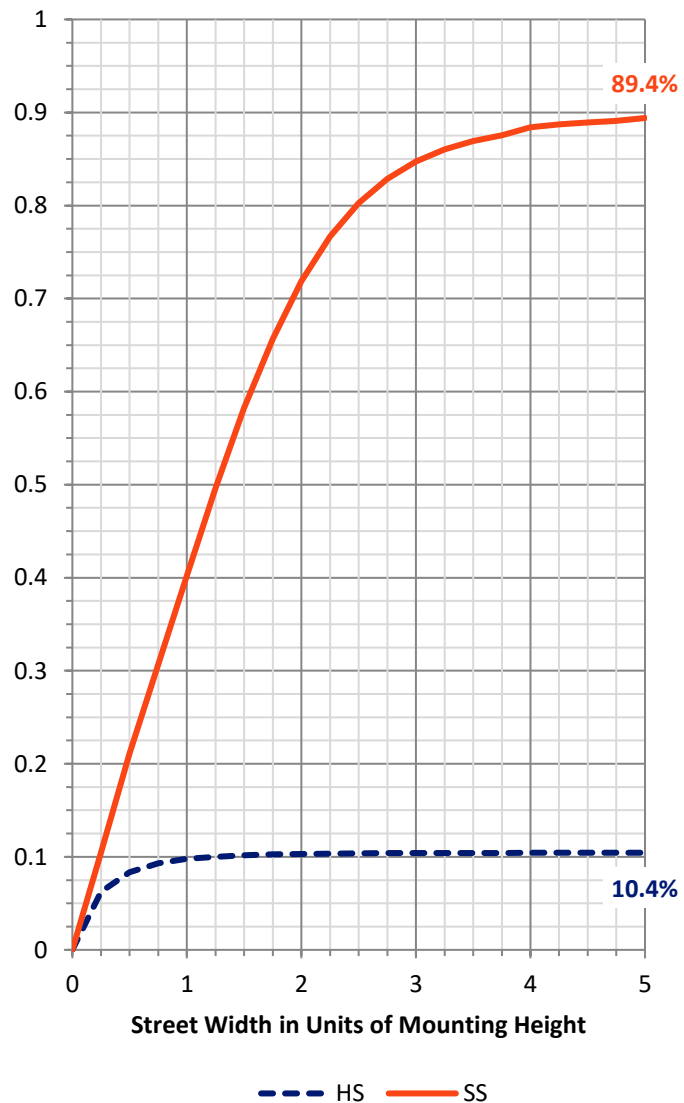
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	657.5	0.0	657.5
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	5600.1	0.0	5600.1
	% Fixture	89.5	0.0	89.5
Total	Lumens	6257.6	0.0	6257.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.6	1.0
10°-20°	188.8	3.0
20°-30°	310.0	5.0
30°-40°	439.6	7.0
40°-50°	726.7	11.6
50°-60°	1305.4	20.9
60°-70°	1812.6	29.0
70°-80°	1314.8	21.0
80°-90°	95.1	1.5
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°	6257.6	100.0
0°-180°	6257.6	100.0

Coefficient of Utilization



REPORT NUMBER: P960456

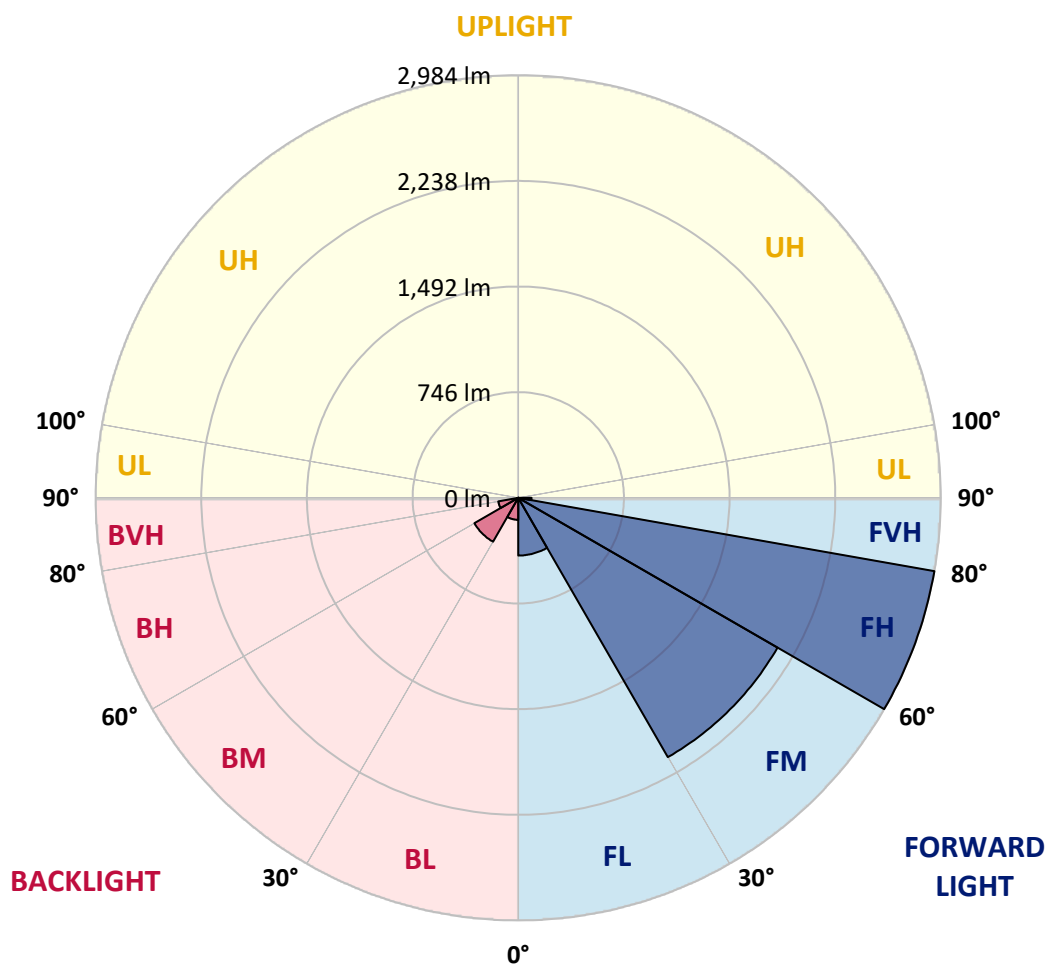
CATALOG NUMBER: NAV-SB1C-760-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	407.6	6.5			
FM	(30°-60°)	2114.2	33.8			
FH	(60°-80°)	2984.1	47.7			G2/5000
FVH	(80°-90°)	94.3	1.5			G1/100
BL	(0°-30°)	155.7	2.5	B1/500		
BM	(30°-60°)	357.6	5.7	B1/1000		
BH	(60°-80°)	143.4	2.3	B1/500		G1/500
BVH	(80°-90°)	0.8	0.0			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



REPORT NUMBER: P960456

CATALOG NUMBER: NAV-SB1C-760-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	685.5	685.5	685.5	685.5	685.5	685.5	685.5	685.5	685.5	685.5	685.5
2.5°	748.8	750.0	749.2	744.0	735.5	730.8	728.3	719.8	714.1	704.4	694.0
5°	817.5	822.7	819.7	809.4	793.1	781.7	778.2	760.8	744.9	726.5	705.2
7.5°	890.5	893.1	887.5	874.3	852.5	832.9	829.9	805.5	780.3	752.1	723.1
10°	953.8	956.7	948.2	929.0	904.3	879.9	875.7	848.7	818.8	784.2	747.0
12.5°	1006.8	1009.7	998.7	975.6	948.2	923.0	918.7	890.5	857.6	819.2	773.1
15°	1046.9	1052.5	1037.5	1012.7	983.3	958.1	955.9	928.1	896.2	853.4	804.3
17.5°	1070.4	1075.9	1061.8	1032.0	1006.8	985.3	982.8	959.7	929.9	888.9	834.6
20°	1074.2	1079.3	1064.4	1038.3	1017.4	1000.3	999.1	982.4	960.6	921.3	867.5
22.5°	1062.7	1069.1	1055.4	1034.5	1020.0	1011.0	1009.3	999.9	987.5	954.2	898.2
25°	1050.7	1055.9	1045.6	1027.3	1019.6	1018.6	1020.0	1018.2	1015.7	987.5	934.1
27.5°	1049.9	1055.4	1043.9	1026.3	1022.1	1031.0	1032.4	1040.5	1042.6	1017.8	968.7
30°	1057.2	1061.0	1049.9	1031.5	1029.4	1049.9	1050.3	1064.9	1068.3	1043.4	1002.9
32.5°	1073.0	1077.2	1066.1	1039.1	1036.2	1064.9	1066.1	1085.4	1090.9	1070.8	1038.7
35°	1110.1	1115.2	1102.4	1060.6	1049.9	1078.9	1082.8	1105.4	1116.5	1099.8	1075.9
37.5°	1202.7	1187.9	1170.3	1103.7	1081.1	1101.2	1107.5	1134.1	1153.6	1134.5	1120.3
40°	1433.1	1386.0	1331.4	1177.1	1135.7	1148.5	1153.6	1180.2	1207.0	1188.3	1181.4
42.5°	1778.6	1723.0	1635.1	1346.3	1218.2	1224.6	1228.5	1251.5	1289.4	1274.6	1276.2
45°	2086.5	2066.4	1976.7	1635.1	1372.4	1340.7	1345.4	1357.4	1413.4	1407.8	1418.9
47.5°	2323.2	2311.6	2242.4	1966.5	1632.9	1483.0	1496.2	1501.7	1582.5	1602.2	1632.0
50°	2505.1	2500.8	2438.9	2261.3	1973.3	1692.7	1697.4	1685.4	1806.4	1855.0	1911.8
52.5°	2676.8	2691.3	2645.6	2535.0	2336.8	1967.4	1966.5	1910.1	2073.3	2146.8	2243.7
55°	2831.9	2837.0	2841.7	2814.3	2702.4	2280.0	2271.9	2179.7	2382.9	2459.0	2564.0
57.5°	2977.5	2979.7	3021.5	3077.5	3083.0	2615.7	2600.7	2490.1	2721.2	2775.5	2840.0
60°	3075.3	3085.1	3173.5	3329.0	3397.0	2962.1	2953.9	2841.2	3065.5	3090.7	3078.7
62.5°	2934.4	2994.1	3217.1	3525.5	3693.4	3346.1	3342.2	3236.3	3427.7	3407.2	3304.7
65°	2375.2	2476.5	2868.6	3658.3	3984.2	3775.0	3780.5	3667.8	3799.7	3733.0	3488.4
67.5°	1661.5	1768.3	2232.1	3669.0	4309.3	4278.6	4310.5	4133.7	4194.8	4045.3	3531.9
70°	1148.9	1204.1	1506.0	3439.2	4562.6	4972.2	4971.4	4706.1	4587.8	4187.5	3309.8
72.5°	772.6	801.2	978.2	2728.4	4376.3	5384.3	5359.5	5143.4	4720.1	3916.3	2704.2
75°	325.8	346.9	452.7	1533.4	3462.2	4926.0	4859.0	4545.5	4194.0	3083.8	1687.2
77.5°	103.3	112.3	178.6	548.9	1907.1	3702.7	3631.9	2838.6	2811.0	1547.0	616.7
80°	49.1	57.2	100.3	220.4	750.5	2013.9	2004.1	1287.8	1209.2	417.7	123.8
82.5°	21.3	25.2	55.6	117.9	335.7	718.4	733.0	438.2	362.6	158.5	38.0
85°	6.9	9.0	25.6	54.2	141.8	178.6	176.4	104.2	146.1	86.3	13.2
87.5°	0.0	0.0	8.5	12.4	14.6	10.2	11.6	9.0	40.6	23.9	4.7
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: P960456

CATALOG NUMBER: NAV-SB1C-760-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	685.5	685.5	685.5	685.5	685.5	685.5	685.5	685.5	685.5	685.5	685.5
2.5°	688.9	682.1	670.1	659.1	649.2	639.4	633.4	624.8	624.0	624.0	626.2
5°	693.6	682.5	661.2	638.6	612.5	587.7	562.9	539.0	531.4	525.8	528.4
7.5°	707.4	689.8	656.1	612.9	563.3	509.1	471.1	430.1	414.3	405.8	407.0
10°	726.9	703.0	651.8	576.2	495.9	422.0	367.8	323.3	306.3	299.0	299.0
12.5°	748.8	719.2	644.1	530.5	422.0	333.5	280.6	260.1	257.6	257.6	257.6
15°	774.8	738.9	630.9	476.6	344.7	263.9	245.2	246.0	248.6	250.3	250.3
17.5°	801.8	759.8	610.0	416.5	276.3	237.5	237.9	239.2	241.3	243.0	243.0
20°	830.8	780.7	582.2	352.4	237.1	229.8	231.0	232.4	234.1	234.9	235.3
22.5°	861.9	800.4	549.3	289.6	223.9	223.3	223.9	225.1	227.2	227.2	228.1
25°	895.2	822.3	511.7	243.8	217.0	217.0	217.8	218.7	220.4	220.4	220.8
27.5°	929.5	842.2	472.0	220.0	211.0	210.5	210.5	211.9	212.7	213.1	213.6
30°	967.0	865.8	432.2	214.8	206.3	204.2	202.8	203.8	204.6	205.0	205.9
32.5°	1005.4	888.5	396.8	217.0	201.6	197.7	193.5	192.6	192.6	194.3	195.7
35°	1048.2	913.2	369.5	224.3	199.1	188.4	181.5	177.7	178.1	180.7	181.9
37.5°	1099.4	943.1	349.4	230.6	197.3	177.7	166.6	161.8	158.9	161.8	161.0
40°	1166.4	987.1	334.9	235.7	195.2	165.3	150.4	142.7	137.1	138.8	138.0
42.5°	1265.2	1056.3	329.3	236.2	190.5	150.8	133.7	123.4	115.3	115.7	114.1
45°	1403.5	1165.6	357.9	230.6	180.3	135.0	116.1	102.5	97.4	96.1	94.4
47.5°	1593.2	1324.9	424.1	219.1	165.3	119.6	99.1	87.5	83.7	81.6	80.3
50°	1847.4	1529.5	497.6	206.3	150.4	105.1	85.0	77.7	75.1	73.1	72.6
52.5°	2142.0	1737.1	557.8	193.5	135.4	92.2	76.1	71.8	69.6	68.0	67.4
55°	2412.4	1880.2	554.4	179.8	120.8	82.0	69.6	67.0	64.5	62.8	61.9
57.5°	2580.6	1900.2	457.0	164.8	104.2	73.9	63.7	61.9	58.9	56.8	56.4
60°	2658.0	1785.9	320.3	145.2	87.5	66.2	57.2	56.4	52.6	49.5	48.7
62.5°	2672.1	1573.1	213.6	120.8	73.1	58.9	50.8	49.5	44.4	39.3	36.7
65°	2614.9	1268.9	147.8	94.4	62.3	51.2	43.6	41.0	35.5	30.3	28.6
67.5°	2433.8	891.0	102.9	68.0	53.0	40.6	34.6	33.7	29.5	25.2	23.9
70°	2101.9	507.9	68.8	50.8	41.8	27.8	27.4	28.2	23.9	20.5	18.8
72.5°	1611.5	232.4	42.7	37.2	28.6	18.8	21.8	22.2	18.3	15.4	13.6
75°	948.6	99.5	27.0	23.9	14.6	12.4	15.8	16.2	12.4	9.8	8.5
77.5°	322.9	37.6	17.1	14.1	7.3	6.9	10.2	10.2	6.9	3.9	3.0
80°	73.5	14.1	8.5	5.5	3.4	3.0	3.4	3.0	1.7	0.4	0.0
82.5°	20.9	5.5	3.4	2.2	1.3	1.3	0.4	0.0	0.0	0.0	0.0
85°	5.9	2.6	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.6	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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

(END OF REPORT)