

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: P971607

Luminaire Tested: **NAV-SB6D-835-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971607
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6D-835-U-T2U-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44836.6 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - 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



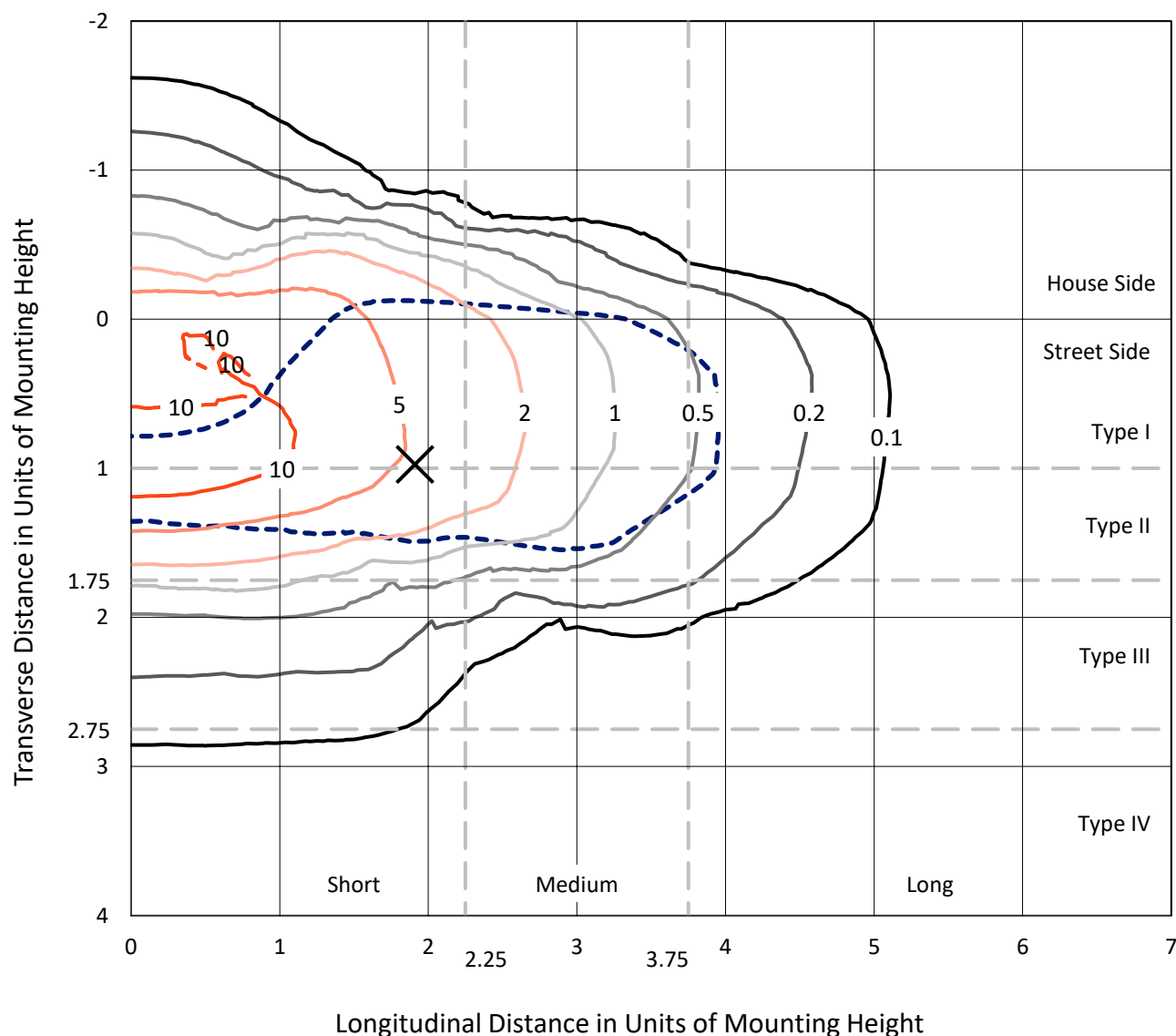
REPORT NUMBER: P971607

CATALOG NUMBER: NAV-SB6D-835-U-T2U-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

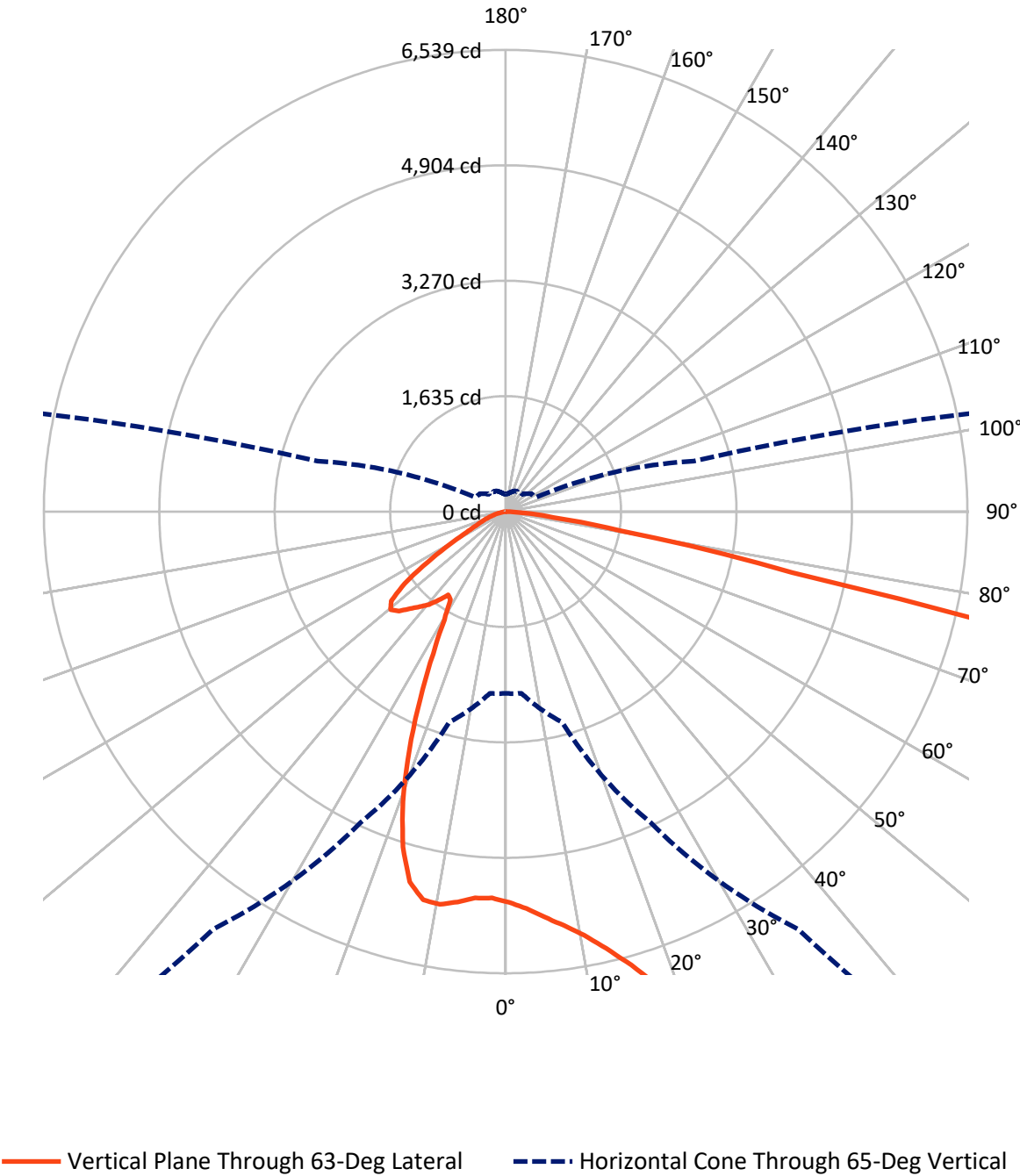


Based on 25 foot mounting height. Maximum calculated value = 15.2 fc

Type II - Short - N/A

REPORT NUMBER: P971607
CATALOG NUMBER: NAV-SB6D-835-U-T2U-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P971607

CATALOG NUMBER: NAV-SB6D-835-U-T2U-HSS

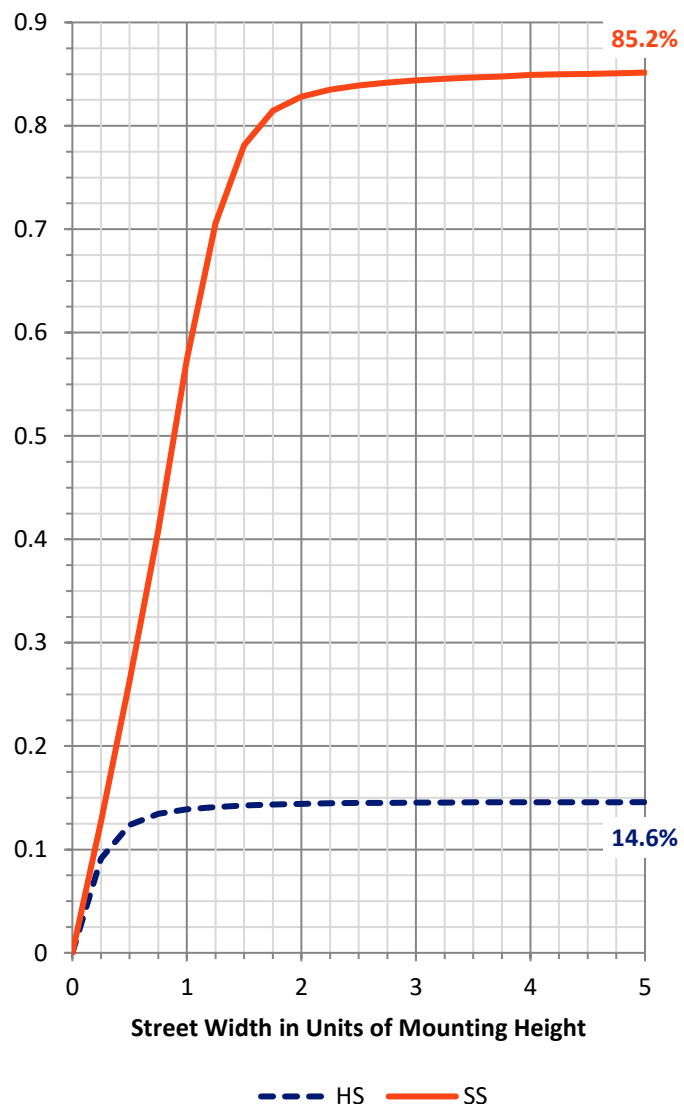
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6590.6	0.0	6590.6
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	38245.9	0.0	38245.9
	% Fixture	85.3	0.0	85.3
Total	Lumens	44836.6	0.0	44836.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	521.4	1.2
10°-20°	1446.6	3.2
20°-30°	2519.0	5.6
30°-40°	4540.1	10.1
40°-50°	9004.6	20.1
50°-60°	12265.7	27.4
60°-70°	9790.4	21.8
70°-80°	4430.4	9.9
80°-90°	318.5	0.7
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°	44836.6	100.0
0°-180°	44836.6	100.0

Coefficient of Utilization



REPORT NUMBER: P971607

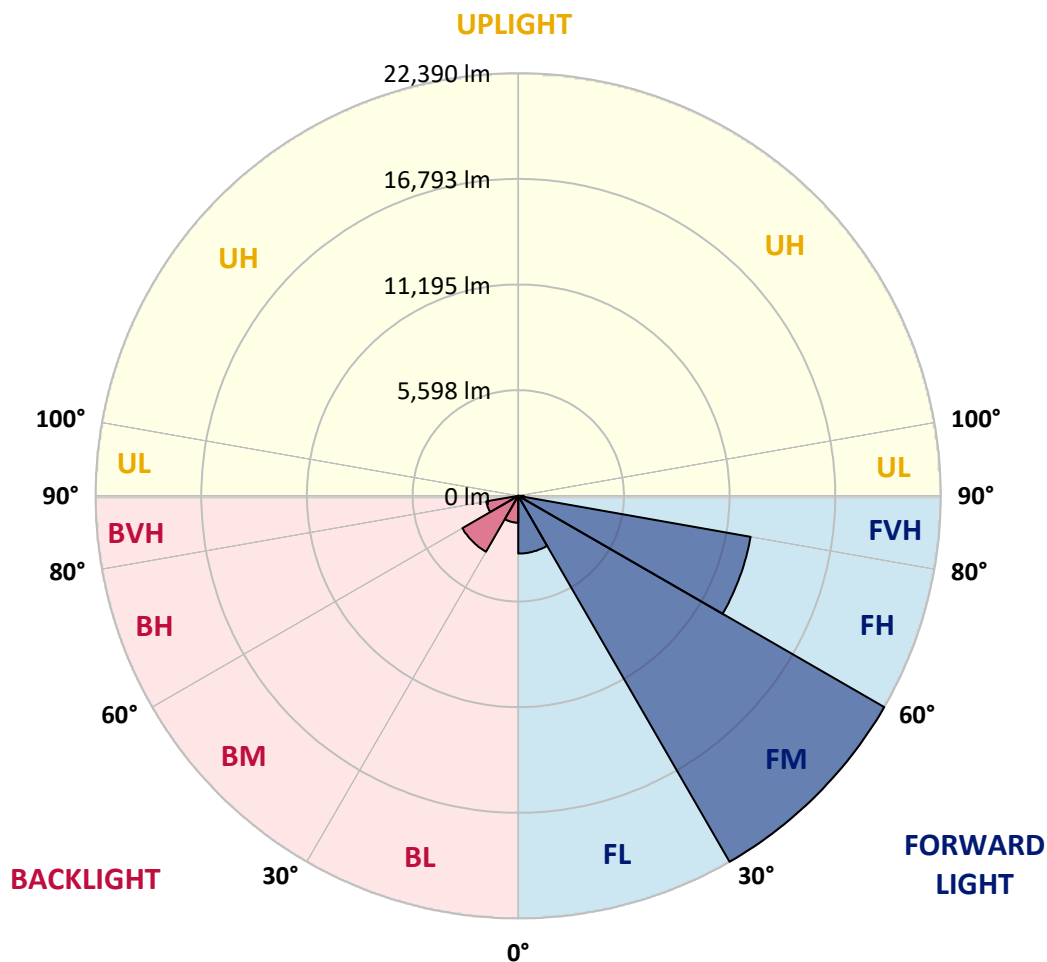
CATALOG NUMBER: NAV-SB6D-835-U-T2U-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3060.6	6.8			
FM	(30°-60°)	22390.3	49.9			
FH	(60°-80°)	12500.2	27.9			G5
FVH	(80°-90°)	294.8	0.7			G3/500
BL	(0°-30°)	1426.3	3.2	B3/2500		
BM	(30°-60°)	3420.1	7.6	B3/5000		
BH	(60°-80°)	1720.5	3.8	B3/2500		G3/2500
BVH	(80°-90°)	23.6	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 II Short



REPORT NUMBER: P971607

CATALOG NUMBER: NAV-SB6D-835-U-T2U-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	5533.7	5533.7	5533.7	5533.7	5533.7	5533.7	5533.7	5533.7	5533.7	5533.7	5533.7
2.5°	5663.2	5647.9	5669.4	5660.2	5654.0	5641.6	5635.4	5629.3	5617.0	5607.7	5570.7
5°	5678.7	5669.4	5691.0	5709.5	5728.0	5746.6	5755.8	5768.1	5755.8	5731.1	5694.1
7.5°	5549.1	5542.9	5589.2	5644.7	5728.0	5798.9	5876.0	5919.3	5922.3	5913.1	5872.9
10°	5539.8	5524.4	5570.7	5638.5	5746.6	5872.9	6008.7	6101.2	6113.6	6153.7	6110.5
12.5°	5684.9	5669.4	5734.2	5808.2	5919.3	6051.9	6218.5	6348.0	6366.5	6422.0	6391.2
15°	5928.5	5906.9	5981.0	6076.6	6218.5	6369.6	6545.4	6662.6	6678.1	6745.9	6690.4
17.5°	6212.3	6190.7	6277.1	6378.9	6533.0	6739.8	6943.4	7072.9	7091.4	7134.5	7032.7
20°	6576.3	6548.5	6616.4	6708.9	6872.4	7119.1	7362.8	7547.9	7544.8	7544.8	7378.3
22.5°	6998.8	6955.6	7014.3	7088.3	7242.5	7541.7	7865.6	8084.6	8084.6	7998.3	7723.7
25°	7452.3	7409.1	7473.9	7541.7	7677.5	8016.7	8396.2	8667.6	8679.9	8531.9	8093.8
27.5°	8019.8	7964.4	8013.7	8093.8	8174.1	8519.5	8969.9	9284.4	9290.7	9062.4	8445.5
30°	9111.7	8954.4	8800.2	8713.8	8750.8	9093.3	9574.4	9923.0	9953.9	9639.2	8828.0
32.5°	11110.6	11079.7	10536.8	9827.4	9457.3	9710.1	10250.0	10669.4	10688.0	10283.9	9324.6
35°	14216.6	14179.6	13306.8	11955.7	10749.7	10536.8	11070.4	11567.0	11554.7	11098.2	9969.3
37.5°	17924.3	17890.4	16739.9	14932.3	12979.8	11786.1	12128.4	12649.7	12726.8	12128.4	10802.1
40°	21092.1	20965.7	20237.7	18495.0	15940.9	13858.9	13633.7	13979.2	14059.4	13349.9	11860.1
42.5°	23491.9	23383.9	23013.8	21925.0	19525.2	16924.9	15407.3	15539.9	15629.4	14778.0	13075.4
45°	24735.0	24710.3	24858.4	24756.6	23177.3	20688.1	17942.8	17390.7	17424.6	16360.4	14454.2
47.5°	24910.8	24898.5	25574.0	26530.2	26317.4	24932.4	21197.0	19697.9	19577.6	18146.4	15953.3
50°	23874.4	23849.7	25145.2	26937.4	28414.8	28498.2	24892.3	22298.2	22032.9	19994.1	17517.1
52.5°	20564.7	20558.5	22686.8	25669.6	29152.0	31619.7	28544.4	25154.5	24710.3	21949.7	19170.5
55°	15823.7	15937.8	18377.7	21903.4	27807.2	33121.8	31823.3	28325.4	27643.7	23917.6	20694.2
57.5°	11209.3	11375.9	13787.9	16928.0	23636.9	32233.6	34041.1	31502.5	30768.3	25879.4	22239.6
60°	6021.1	6169.1	8584.3	12332.0	17585.0	28920.7	35210.1	34260.1	33566.1	27742.4	23633.8
62.5°	3587.3	3636.7	4636.1	7961.2	11894.0	22094.6	34713.5	36360.6	35790.0	29306.3	24846.0
65°	2575.6	2584.8	3087.6	4861.3	7220.9	13423.9	31231.0	37366.3	37190.4	30484.6	25743.7
67.5°	2168.4	2162.2	2372.1	3229.6	4919.9	6724.3	23936.1	35944.3	36690.7	31231.0	26252.6
70°	1860.0	1869.2	2116.0	2365.8	3698.4	3806.3	11900.1	31295.8	32887.4	31428.4	26221.8
72.5°	1385.0	1415.8	1644.1	2156.1	2791.5	2618.8	4108.6	23205.1	26083.0	29611.6	24861.5
75°	977.8	993.2	1156.7	1813.7	2082.1	1906.3	2097.5	11995.8	15685.0	22702.3	20348.8
77.5°	752.7	780.4	876.0	1267.7	2051.2	1338.6	1283.2	4151.8	6378.9	13713.9	13951.4
80°	407.1	456.5	632.3	916.1	1440.5	947.0	635.4	1653.3	2162.2	6412.8	5379.4
82.5°	209.7	234.4	441.1	660.1	820.5	826.7	314.7	687.9	891.4	1980.3	737.2
85°	83.3	101.8	296.1	364.0	422.6	407.1	141.9	277.6	320.8	549.1	225.2
87.5°	18.6	30.9	107.9	83.3	80.2	86.4	33.9	64.8	61.7	64.8	40.1
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: P971607

CATALOG NUMBER: NAV-SB6D-835-U-T2U-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5533.7	5533.7	5533.7	5533.7	5533.7	5533.7	5533.7	5533.7	5533.7	5533.7	5533.7
2.5°	5567.6	5555.3	5521.4	5484.4	5441.1	5416.5	5401.0	5398.0	5376.3	5361.0	5376.3
5°	5660.2	5647.9	5583.1	5505.9	5422.7	5357.9	5296.2	5240.6	5160.5	5145.0	5138.8
7.5°	5845.3	5811.3	5706.4	5601.5	5444.2	5256.1	5027.8	4765.6	4531.2	4460.3	4426.4
10°	6073.4	6027.2	5894.6	5709.5	5361.0	4848.9	4296.8	3784.7	3377.6	3263.5	3220.2
12.5°	6332.6	6292.5	6116.7	5774.2	5012.4	4083.9	3238.8	2603.4	2208.6	2109.9	2082.1
15°	6641.1	6582.4	6338.7	5675.5	4389.4	3103.1	2223.9	1847.7	1705.8	1687.3	1668.7
17.5°	6968.0	6872.4	6536.1	5320.9	3550.3	2205.5	1718.1	1610.2	1548.5	1529.9	1520.7
20°	7267.1	7143.8	6653.4	4784.1	2652.7	1718.1	1539.1	1468.2	1412.8	1391.1	1378.8
22.5°	7566.4	7390.6	6653.4	4053.1	1989.5	1523.8	1412.8	1348.0	1283.2	1255.4	1239.9
25°	7877.9	7643.5	6536.1	3238.8	1600.8	1397.3	1292.4	1221.5	1165.9	1132.0	1119.7
27.5°	8180.2	7856.3	6267.8	2467.7	1425.1	1286.3	1181.4	1113.6	1061.1	1036.4	1036.4
30°	8467.1	8066.1	5891.5	1872.4	1311.0	1178.3	1079.6	1021.0	968.5	943.9	947.0
32.5°	8855.7	8331.4	5490.5	1536.1	1212.3	1076.6	987.1	931.5	885.3	866.7	866.7
35°	9395.6	8723.1	5145.0	1508.4	1128.9	993.2	903.7	851.4	805.0	789.7	789.7
37.5°	10160.5	9355.5	4963.0	1693.4	1061.1	919.2	835.9	780.4	737.2	724.9	721.8
40°	11104.3	10212.9	5061.8	1878.5	1014.9	854.4	774.2	718.7	681.7	666.2	663.2
42.5°	12224.0	11270.9	5607.7	2020.4	984.0	798.9	715.7	653.9	629.2	623.1	623.1
45°	13510.3	12433.9	6443.7	2171.6	934.6	746.5	657.0	610.7	592.2	589.2	586.1
47.5°	14972.4	13710.8	7412.2	2359.7	885.3	697.1	610.7	579.9	564.5	558.3	558.3
50°	16422.1	14997.1	8408.5	2464.5	845.2	650.9	573.7	549.1	536.7	533.6	533.6
52.5°	17939.8	16320.4	9213.5	2365.8	811.3	613.9	542.8	524.4	512.0	508.9	508.9
55°	19386.4	17390.7	9352.3	2008.1	743.3	576.8	508.9	499.7	484.3	484.3	481.2
57.5°	20632.5	17927.4	8371.5	1474.5	675.5	521.3	475.0	465.8	453.5	450.4	447.3
60°	21776.9	17773.2	6462.1	993.2	601.5	465.8	431.8	425.7	413.3	397.9	394.8
62.5°	22421.6	17094.5	4420.1	647.8	527.5	407.1	382.5	379.4	351.7	320.8	314.7
65°	22665.3	15700.3	2757.6	471.9	441.1	348.6	330.0	323.9	283.8	249.9	246.7
67.5°	22452.4	13405.5	1391.1	373.2	348.6	290.0	271.4	271.4	243.6	212.8	209.7
70°	21601.1	10049.5	586.1	299.2	268.3	222.1	222.1	234.4	206.6	172.7	169.6
72.5°	19753.5	6761.3	311.5	228.3	200.5	157.3	181.9	191.3	163.5	129.6	129.6
75°	15703.4	4124.1	216.0	169.6	126.5	111.0	138.8	144.9	111.0	86.4	83.3
77.5°	10740.4	2369.0	144.9	107.9	80.2	64.8	95.6	89.5	58.6	40.1	43.2
80°	4716.2	987.1	83.3	49.3	30.9	24.7	33.9	24.7	18.6	12.3	12.3
82.5°	552.2	231.3	30.9	18.6	12.3	6.1	3.1	0.0	0.0	0.0	0.0
85°	114.1	27.8	15.4	6.1	3.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	21.6	6.1	3.1	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)