

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: STREETWORKS

Report Number: P884679

Luminaire Tested: **NVN-SB5C-835-U-T3**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P884679  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SB5C-835-U-T3  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

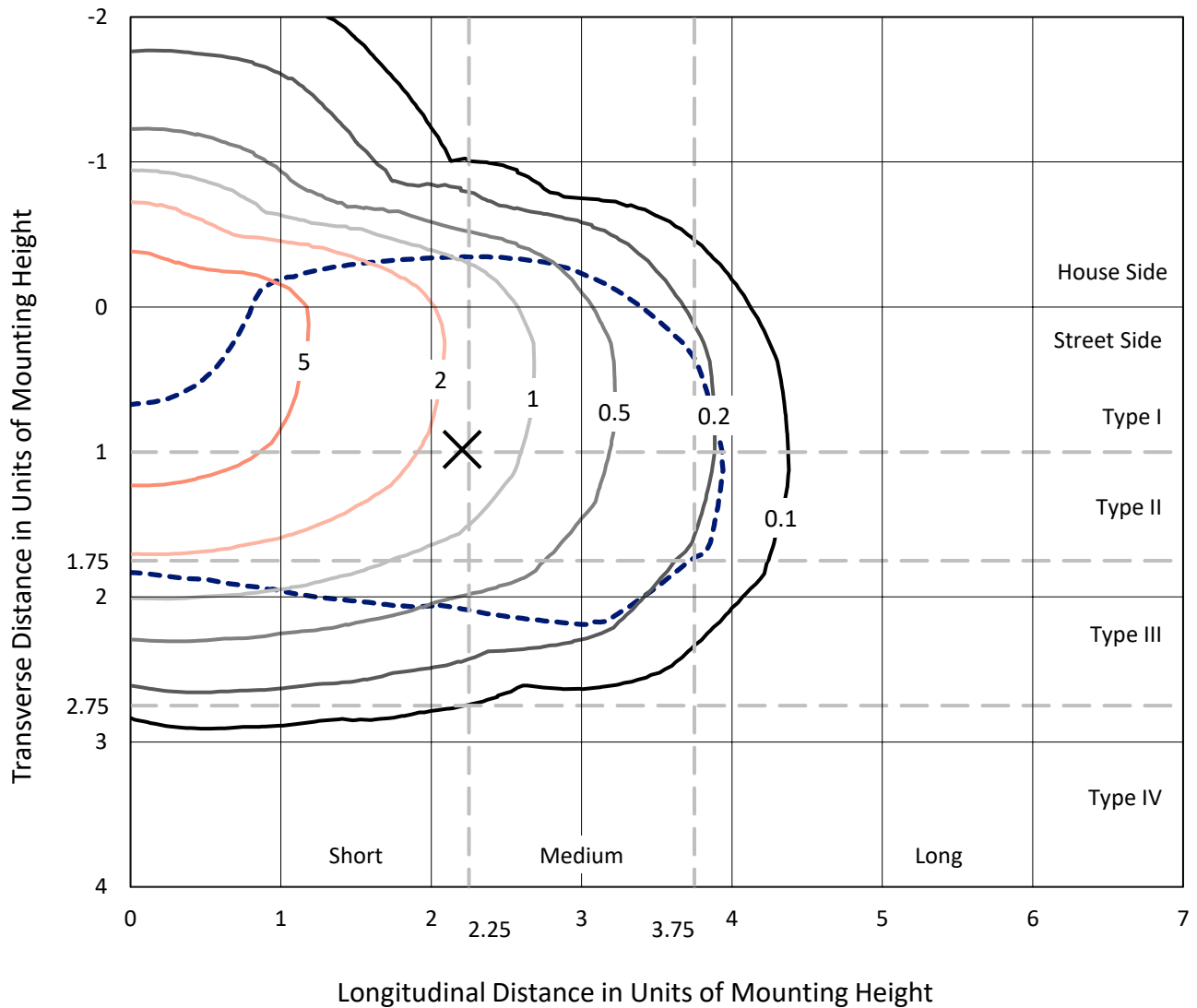
Lumens per Lamp: N/A  
Luminaire Lumens: 32086 lumens  
Efficiency: N/A  
Efficacy: 128.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 249.5  
Input Voltage (V): 120.0  
Input Current (Ain): 2.116  
Voltage Rise (V): NR  
Power Factor: 0.996  
Total Harmonic Distortion (THDi): 7.885  
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

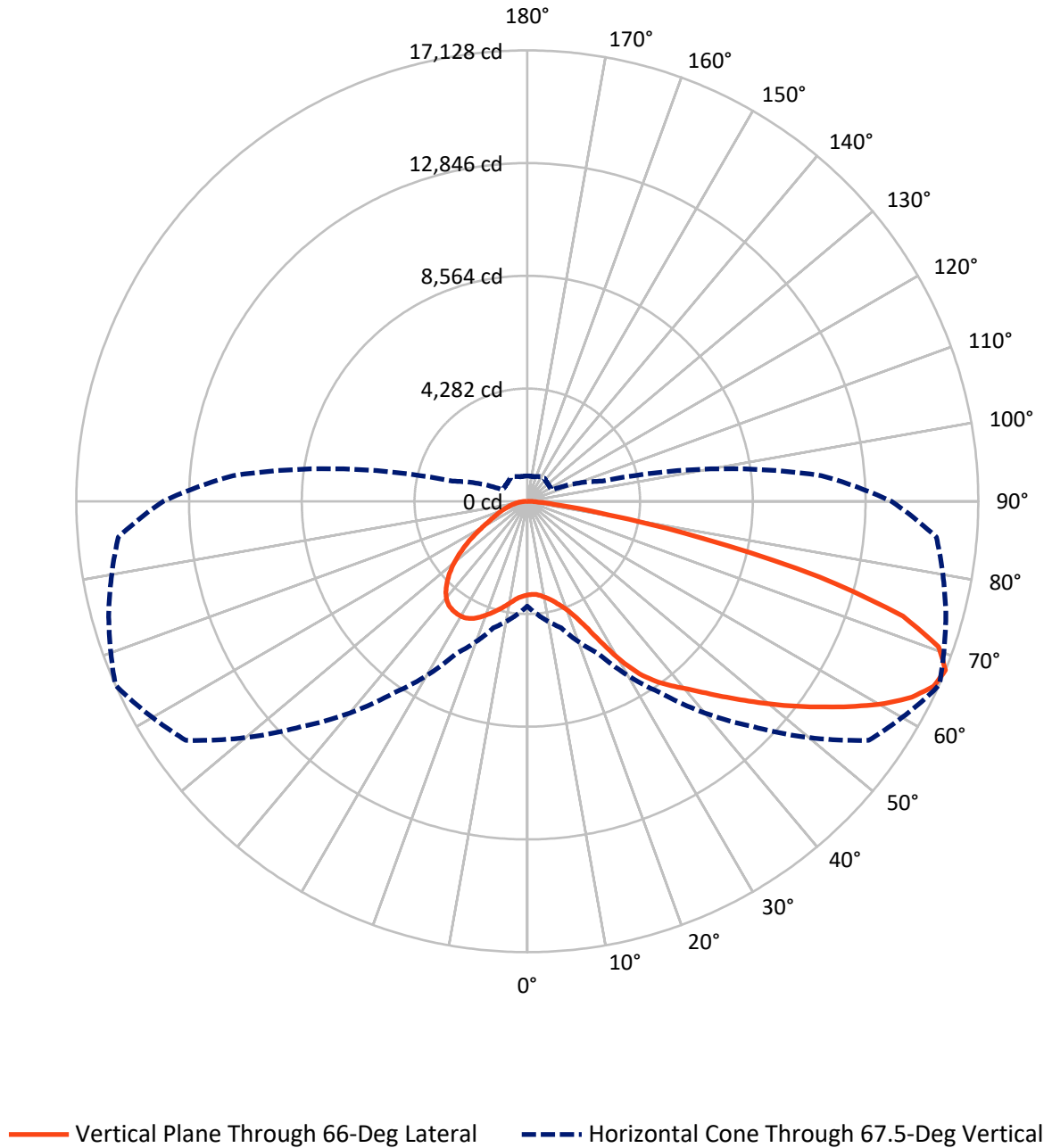
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



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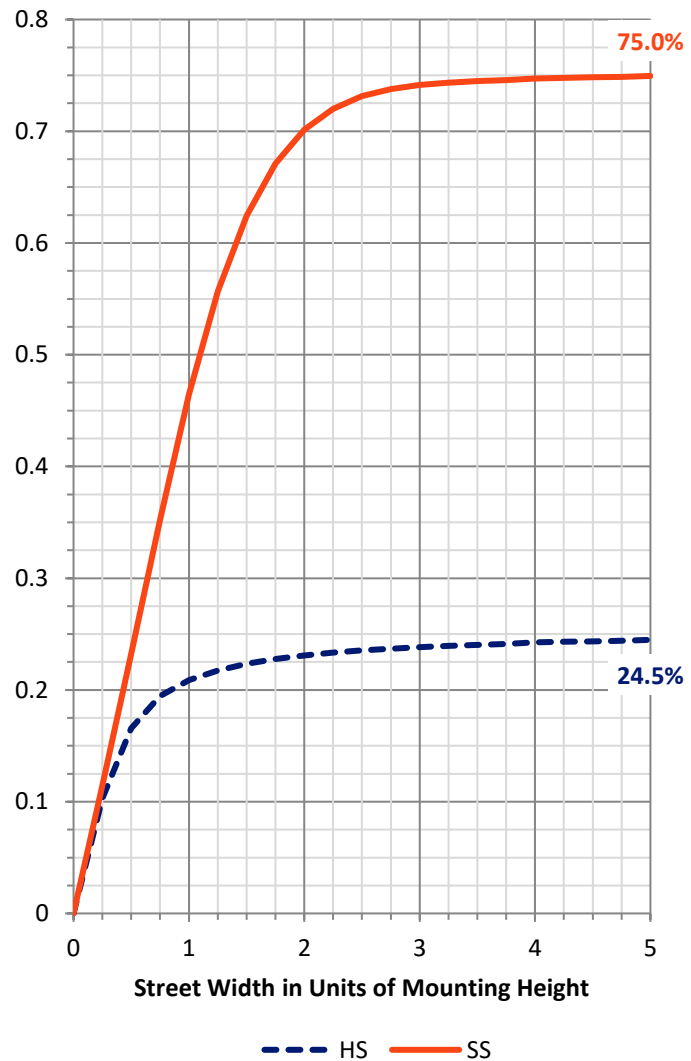
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7978.1	0.0	7978.1
	% Fixture	24.9	0.0	24.9
<b>Street Side</b>	Lumens	24107.9	0.0	24107.9
	% Fixture	75.1	0.0	75.1
<b>Total</b>	Lumens	32086.0	0.0	32086.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	352.8	1.1
10°-20°	1165.7	3.6
20°-30°	2246.9	7.0
30°-40°	3939.6	12.3
40°-50°	5856.9	18.3
50°-60°	7424.2	23.1
60°-70°	7264.4	22.6
70°-80°	3465.2	10.8
80°-90°	370.3	1.2
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°	32086.0	100.0
0°-180°	32086.0	100.0

**Coefficient of Utilization**



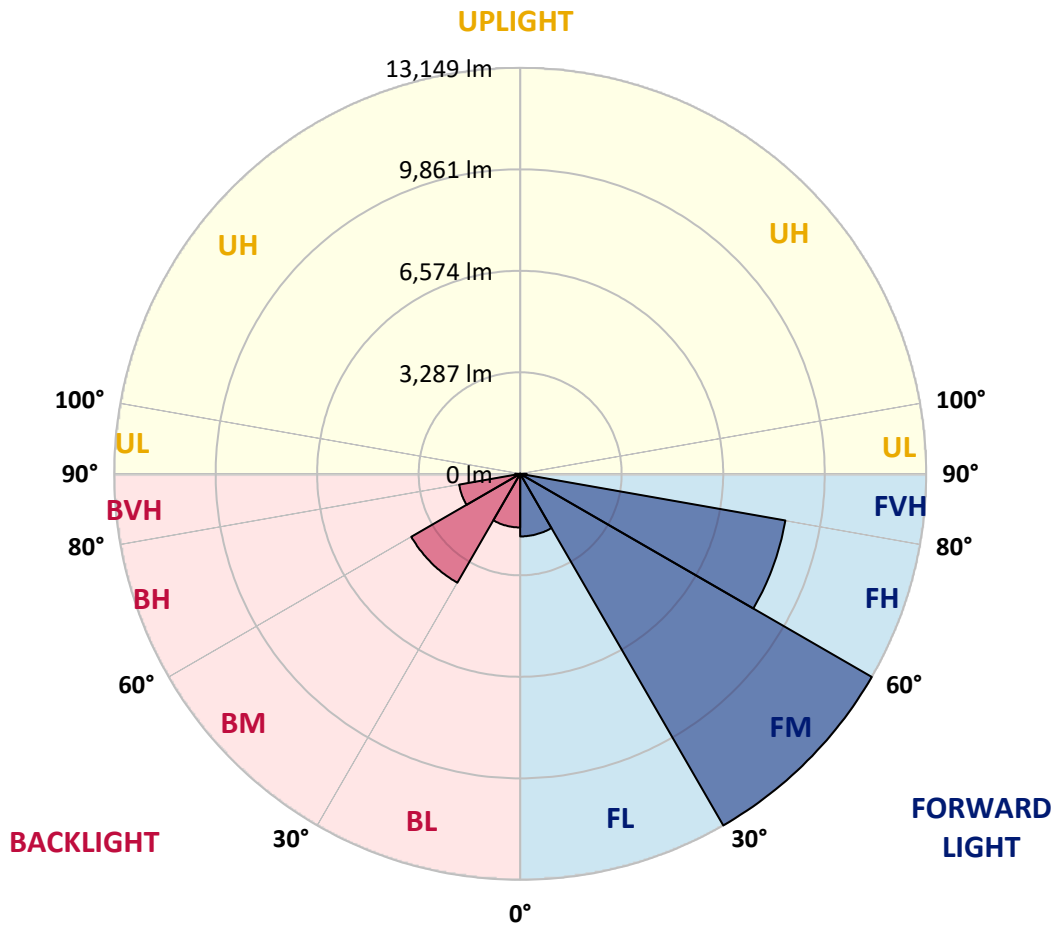
REPORT NUMBER: P884679  
 CATALOG NUMBER: NVN-SB5C-835-U-T3

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2027.5	6.3			
FM (30°-60°)	13148.6	41.0			
FH (60°-80°)	8721.8	27.2			G4/12000
FVH (80°-90°)	210.0	0.7			G2/225
BL (0°-30°)	1737.9	5.4	B3/2500		
BM (30°-60°)	4072.1	12.7	B3/5000		
BH (60°-80°)	2007.7	6.3	B3/2500		G3/2500
BVH (80°-90°)	160.4	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type III Short



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CATALOG NUMBER: NVN-SB5C-835-U-T3

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3558.8	3558.8	3558.8	3558.8	3558.8	3558.8	3558.8	3558.8	3558.8	3558.8	3558.8
2.5°	3521.7	3541.9	3536.8	3528.4	3526.7	3530.1	3535.2	3540.2	3538.5	3547.0	3560.4
5°	3511.6	3531.8	3530.1	3530.1	3536.8	3550.3	3558.8	3567.2	3558.8	3568.9	3587.4
7.5°	3518.3	3533.5	3540.2	3547.0	3563.8	3589.1	3609.3	3627.9	3617.8	3629.6	3653.2
10°	3604.3	3616.1	3622.8	3622.8	3634.6	3663.3	3683.5	3717.2	3708.8	3727.3	3757.7
12.5°	3761.1	3772.9	3772.9	3766.1	3774.5	3793.1	3799.8	3836.9	3821.7	3852.1	3882.4
15°	3953.2	3976.8	3958.3	3946.5	3949.9	3968.4	3966.7	3995.4	3980.2	4005.5	4032.5
17.5°	4165.7	4196.0	4165.7	4164.0	4157.2	4177.5	4179.1	4204.4	4177.5	4196.0	4214.5
20°	4416.8	4459.0	4433.7	4442.1	4427.0	4435.4	4443.8	4480.9	4438.8	4452.2	4447.2
22.5°	4770.9	4821.4	4794.5	4826.5	4816.4	4809.6	4808.0	4873.7	4808.0	4813.0	4764.1
25°	5286.7	5347.4	5300.2	5344.0	5344.0	5366.0	5391.2	5475.5	5366.0	5333.9	5207.5
27.5°	6048.7	6109.4	6016.7	6043.7	6035.2	6089.2	6062.2	6271.2	6153.2	6101.0	5846.4
30°	6965.8	7073.7	6898.4	6891.6	6883.2	6969.2	7007.9	7146.2	7026.5	6974.2	6667.4
32.5°	7957.1	8070.0	7861.0	7800.3	7768.2	7820.5	7788.5	7899.7	7817.1	7736.2	7356.9
35°	9005.6	9116.9	8918.0	8800.0	8671.8	8562.3	8447.6	8476.3	8398.7	8275.7	7882.9
37.5°	9996.9	10200.9	9990.2	9863.7	9627.7	9413.6	9093.3	8960.1	8887.6	8774.7	8378.5
40°	11006.7	11123.0	10962.9	10855.0	10598.7	10263.3	9750.8	9469.2	9371.5	9261.9	8926.4
42.5°	11750.2	11861.4	11775.4	11701.3	11500.6	11111.2	10448.7	10096.4	9954.8	9831.7	9546.8
45°	12340.2	12422.8	12368.8	12395.8	12309.8	11932.2	11171.9	10769.0	10622.3	10472.3	10248.1
47.5°	12577.9	12665.5	12751.5	12911.7	13058.3	12780.2	11949.1	11497.3	11342.2	11188.8	10967.9
50°	12550.9	12640.3	12889.8	13230.3	13685.5	13592.7	12768.4	12272.8	12129.5	11954.1	11750.2
52.5°	12335.1	12436.3	12756.6	13323.0	14047.9	14201.3	13602.9	13073.5	12938.7	12729.6	12525.6
55°	11768.7	11829.4	12309.8	13112.3	14133.9	14626.2	14420.5	13926.5	13791.7	13500.0	13277.5
57.5°	10718.4	10806.1	11505.7	12544.2	13918.1	14914.4	15138.6	14823.4	14693.6	14273.8	14041.2
60°	9347.9	9487.8	10288.5	11590.0	13368.5	14912.7	15791.1	15705.1	15597.2	15035.8	14793.1
62.5°	7796.9	7958.7	8729.2	10241.3	12407.6	14489.6	16199.0	16443.5	16387.8	15738.8	15428.6
65°	5988.0	6099.3	6866.3	8496.5	10912.3	13580.9	16246.2	16947.5	16957.6	16273.2	15760.7
67.5°	3987.0	4307.3	4973.2	6375.8	8909.5	12095.7	15831.5	17030.1	17127.9	16457.0	15593.8
70°	1945.4	2366.9	3019.3	4143.7	6375.8	9818.2	14747.5	16352.4	16569.9	15920.9	14599.2
72.5°	807.5	944.1	1299.8	2044.9	3659.9	6625.3	12569.5	14514.9	14917.8	14106.9	12274.4
75°	544.5	590.0	743.4	1048.6	1667.3	3267.1	9064.6	10823.0	11472.0	10654.4	8708.9
77.5°	419.8	448.4	541.1	733.3	991.3	1235.7	4851.8	6522.4	6857.9	6348.8	4531.5
80°	330.4	352.3	404.6	534.4	703.0	660.8	1653.8	2955.2	3149.1	2641.7	1456.5
82.5°	286.6	295.0	290.0	362.5	467.0	386.1	542.8	1090.7	1203.7	873.3	475.4
85°	207.4	231.0	241.1	224.2	247.8	195.6	222.5	386.1	424.8	379.3	268.0
87.5°	84.3	124.8	153.4	145.0	91.0	55.6	69.1	112.9	129.8	141.6	87.7
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: P884679

CATALOG NUMBER: NVN-SB5C-835-U-T3

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3558.8	3558.8	3558.8	3558.8	3558.8	3558.8	3558.8	3558.8	3558.8	3558.8	3558.8
2.5°	3562.1	3573.9	3582.4	3592.5	3599.2	3609.3	3629.6	3641.4	3643.1	3651.5	3649.8
5°	3594.2	3611.0	3629.6	3656.5	3686.9	3712.2	3750.9	3777.9	3788.0	3796.5	3794.8
7.5°	3663.3	3686.9	3720.6	3767.8	3811.6	3845.4	3892.6	3924.6	3956.6	3968.4	3970.1
10°	3766.1	3799.8	3848.7	3912.8	3960.0	4003.8	4052.7	4079.7	4111.7	4125.2	4131.9
12.5°	3894.2	3929.6	3993.7	4083.1	4126.9	4157.2	4174.1	4167.3	4174.1	4185.9	4189.3
15°	4040.9	4079.7	4152.2	4248.3	4278.6	4251.6	4214.5	4180.8	4175.8	4179.1	4190.9
17.5°	4214.5	4243.2	4327.5	4408.4	4386.5	4275.2	4194.3	4140.4	4113.4	4105.0	4116.8
20°	4457.3	4457.3	4526.4	4577.0	4430.3	4241.5	4115.1	4027.4	3971.8	3948.2	3943.1
22.5°	4752.3	4725.3	4769.2	4733.8	4421.9	4147.1	3971.8	3820.1	3735.8	3702.1	3697.0
25°	5126.6	5094.5	5082.7	4863.6	4361.2	3997.1	3712.2	3528.4	3454.2	3435.7	3439.1
27.5°	5691.3	5610.4	5457.0	4934.4	4249.9	3761.1	3408.7	3238.5	3196.3	3198.0	3203.1
30°	6443.2	6281.4	5905.4	4946.2	4067.9	3427.3	3098.5	2977.2	2956.9	2965.4	2994.0
32.5°	7139.4	6986.0	6364.0	4892.2	3788.0	3100.2	2820.4	2739.5	2709.1	2719.2	2732.7
35°	7685.6	7643.5	6788.8	4816.4	3444.1	2793.4	2570.9	2501.8	2442.8	2429.3	2439.4
37.5°	8201.5	8184.6	7107.4	4710.2	3103.6	2575.9	2370.3	2279.2	2193.2	2146.0	2147.7
40°	8767.9	8751.1	7316.4	4546.7	2801.8	2387.1	2189.9	2070.2	1964.0	1878.0	1886.4
42.5°	9405.2	9305.7	7415.9	4312.3	2545.6	2227.0	2043.2	1881.4	1741.4	1662.2	1667.3
45°	10101.4	9877.2	7414.2	4013.9	2329.8	2080.3	1886.4	1657.2	1527.4	1453.2	1449.8
47.5°	10839.8	10423.4	7323.2	3683.5	2120.8	1918.5	1643.7	1468.3	1382.4	1336.9	1326.7
50°	11601.8	10934.2	7168.1	3304.2	1906.7	1734.7	1491.9	1372.3	1306.5	1264.4	1249.2
52.5°	12318.3	11397.8	6981.0	2874.3	1689.2	1556.0	1424.5	1331.8	1262.7	1215.5	1195.2
55°	12984.2	11797.4	6716.3	2434.3	1512.2	1436.3	1392.5	1314.9	1235.7	1180.1	1158.2
57.5°	13575.9	12057.0	6259.4	2021.3	1385.7	1353.7	1358.8	1286.3	1195.2	1148.0	1117.7
60°	14068.1	12247.5	5583.4	1638.6	1282.9	1272.8	1306.5	1232.3	1126.1	1072.2	1048.6
62.5°	14363.2	12244.1	4754.0	1341.9	1195.2	1198.6	1237.4	1164.9	1057.0	1006.4	991.3
65°	14337.9	11944.0	3843.7	1148.0	1111.0	1114.3	1164.9	1090.7	999.7	969.3	967.7
67.5°	13830.4	11212.4	2948.5	1021.6	1018.2	1033.4	1092.4	1040.1	964.3	960.9	966.0
70°	12456.5	9693.5	2124.1	920.5	922.1	944.1	1021.6	1008.1	945.7	952.5	950.8
72.5°	9988.5	7390.6	1426.2	814.3	815.9	851.3	954.2	982.8	927.2	1016.5	1030.0
75°	6652.2	4609.0	917.1	701.3	703.0	748.5	895.2	933.9	876.6	1013.2	1021.6
77.5°	3196.3	2071.9	664.2	590.0	590.0	632.2	773.8	836.2	746.8	787.3	721.5
80°	1104.2	778.8	522.6	475.4	465.3	493.9	652.4	724.9	644.0	593.4	556.3
82.5°	434.9	404.6	419.8	369.2	335.5	354.0	507.4	598.5	473.7	428.2	426.5
85°	249.5	263.0	296.7	244.4	193.9	217.5	372.6	429.9	357.4	315.2	322.0
87.5°	67.4	92.7	136.6	126.4	87.7	92.7	177.0	237.7	205.7	158.5	163.5
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)