

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: P885174

Luminaire Tested: **NVN-SB6B-830-U-SL4**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P885174  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SB6B-830-U-SL4  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 29645 lumens  
Efficiency: N/A  
Efficacy: 134.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G5

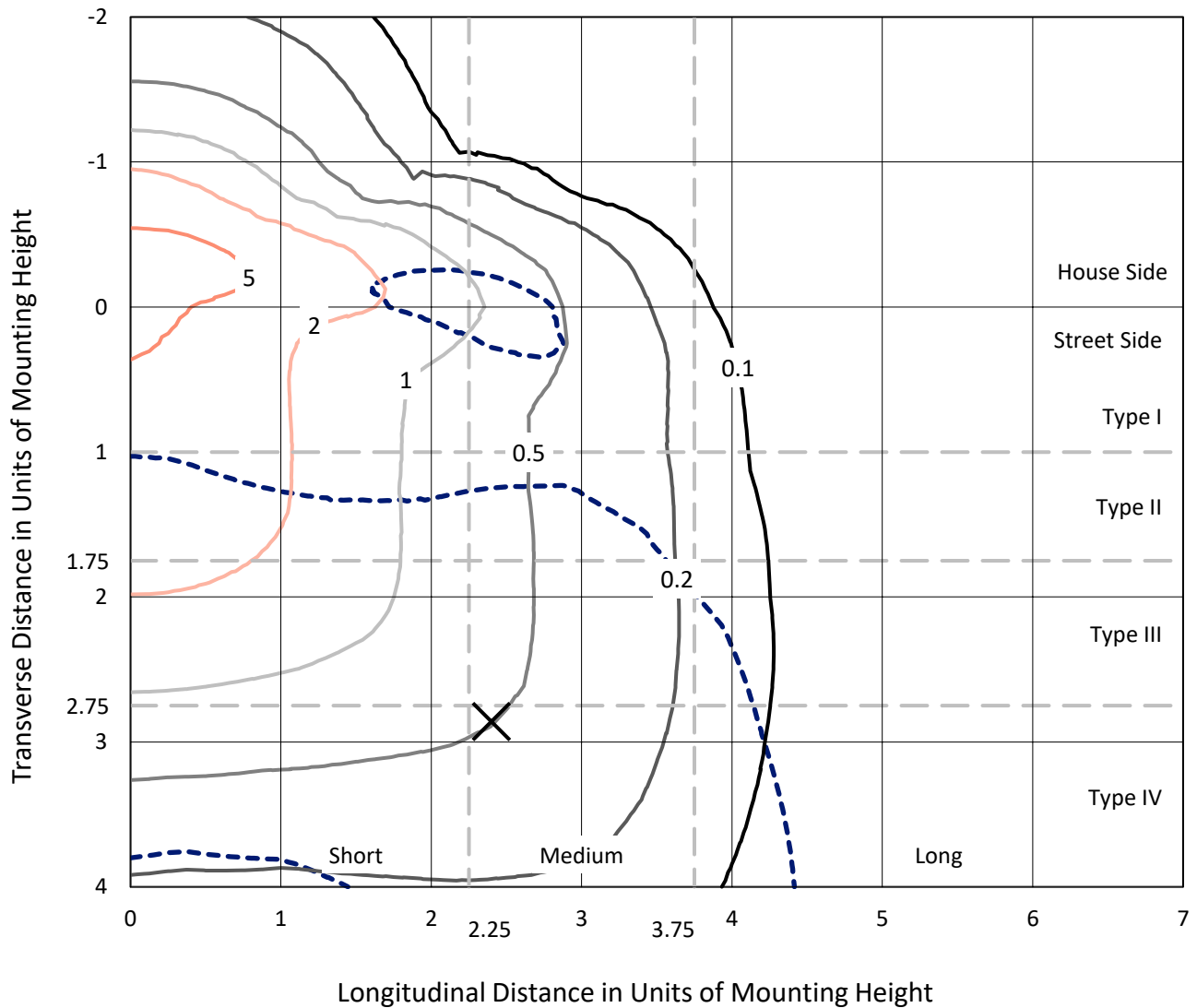
Input Watts (W): 220.4  
Input Voltage (V): 120.0  
Input Current (Ain): 1.838  
Voltage Rise (V): NR  
Power Factor: 0.995  
Total Harmonic Distortion (THDi): 8.657  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

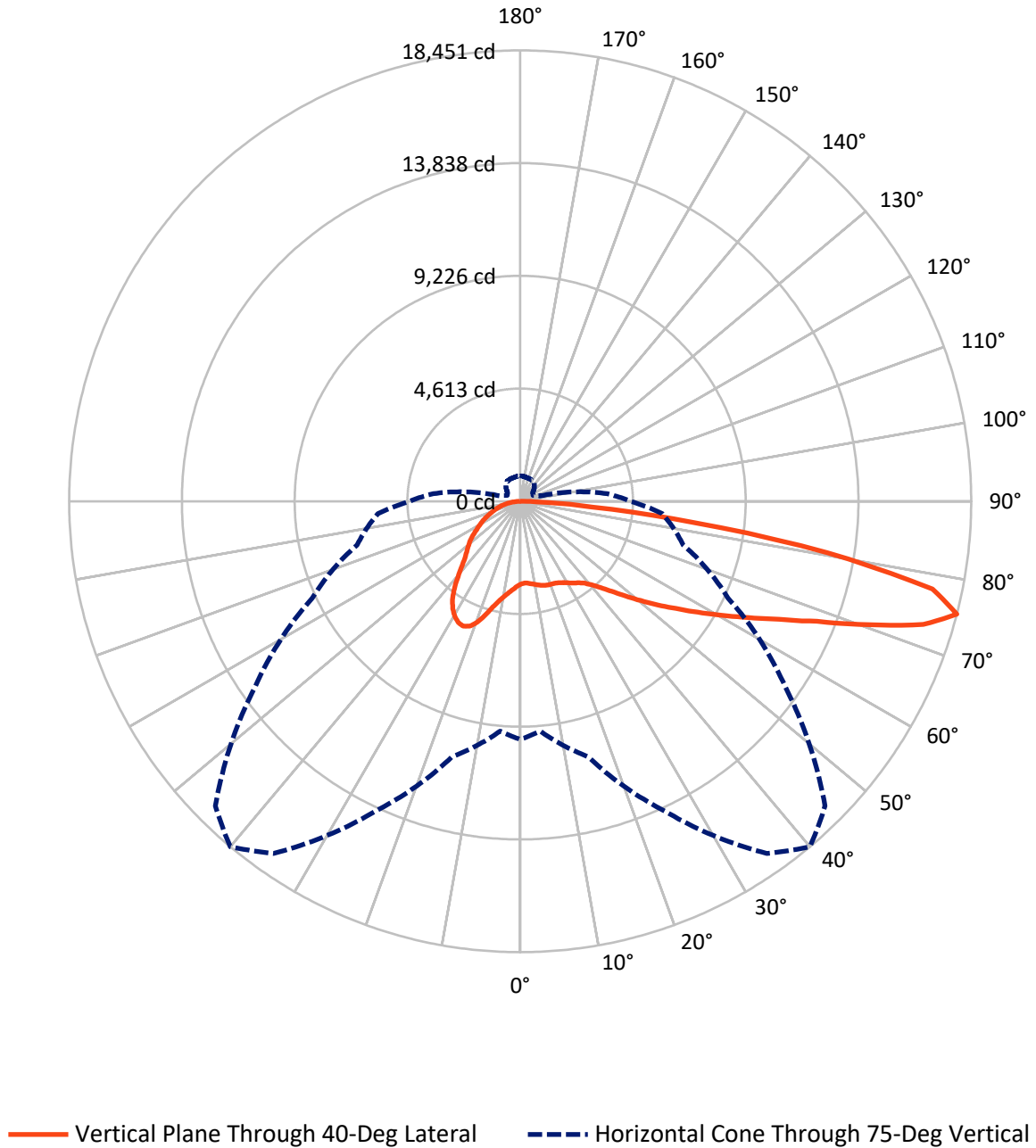
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



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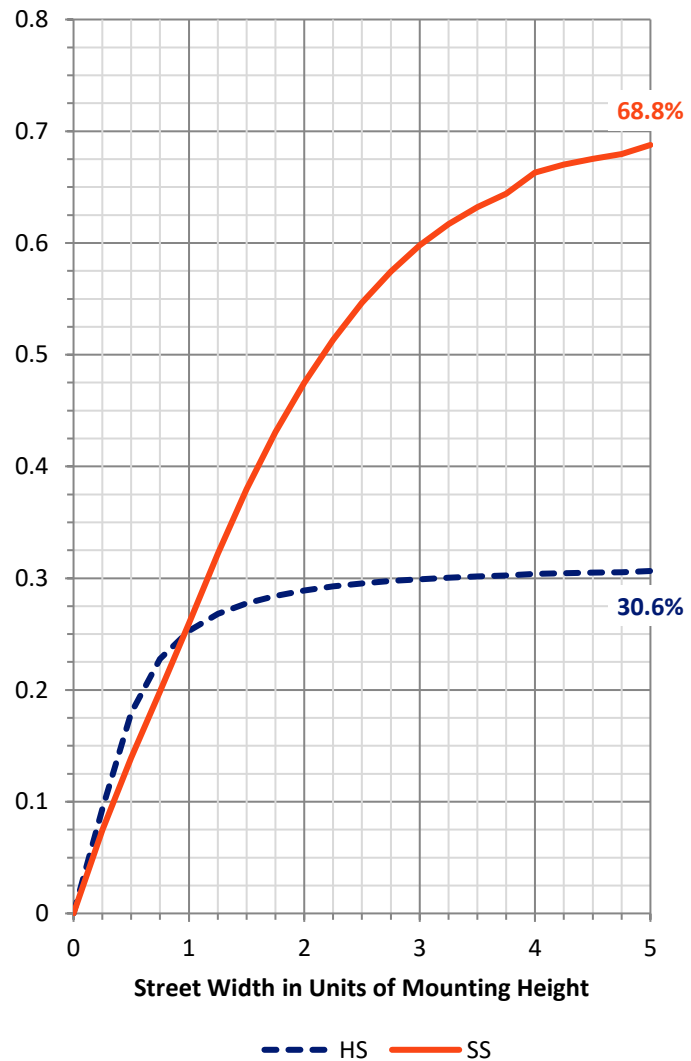
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9185.0	0.0	9185.0
	% Fixture	31.0	0.0	31.0
<b>Street Side</b>	Lumens	20460.0	0.0	20460.0
	% Fixture	69.0	0.0	69.0
<b>Total</b>	Lumens	29645.0	0.0	29645.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	338.4	1.1
10°-20°	1136.1	3.8
20°-30°	2074.4	7.0
30°-40°	2942.1	9.9
40°-50°	3972.7	13.4
50°-60°	5344.4	18.0
60°-70°	6783.3	22.9
70°-80°	6156.2	20.8
80°-90°	897.4	3.0
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°	29645.0	100.0
0°-180°	29645.0	100.0



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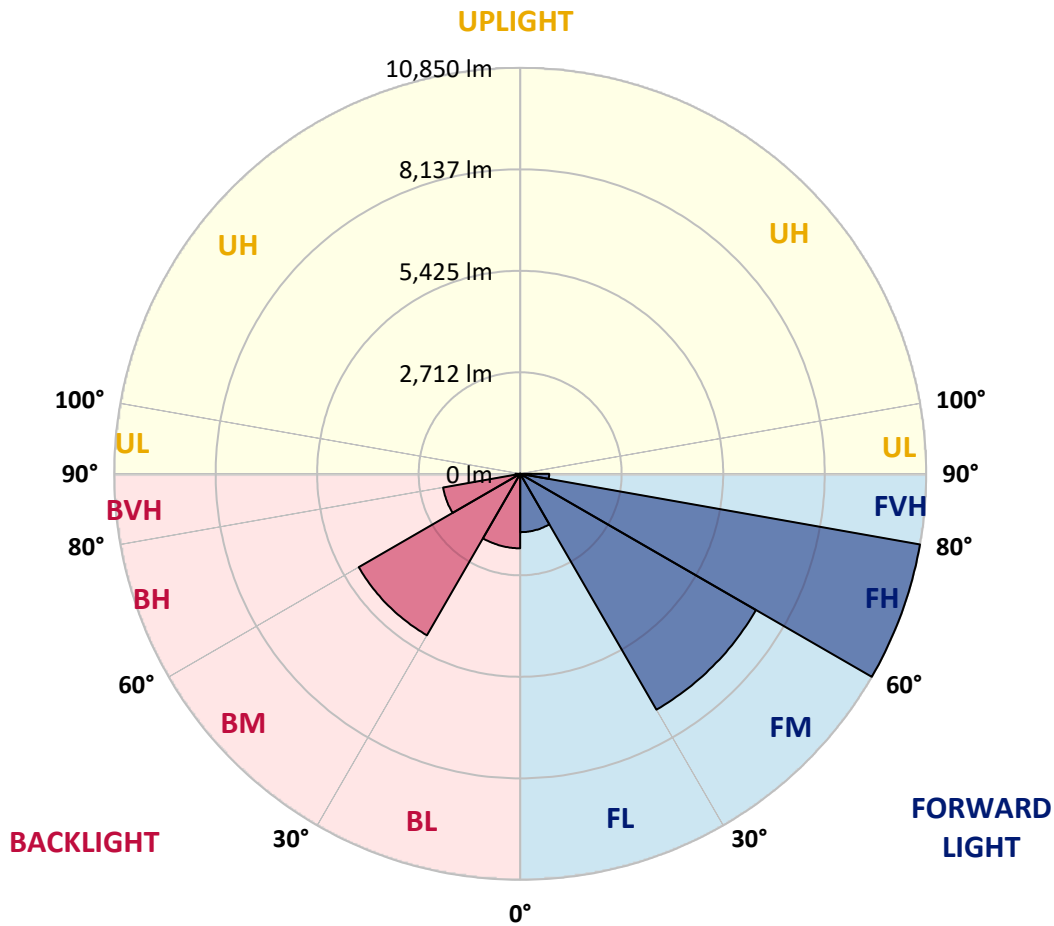
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1559.4	5.3			
FM (30°-60°)	7277.2	24.5			
FH (60°-80°)	10849.6	36.6			G4/12000
FVH (80°-90°)	773.8	2.6			G5
BL (0°-30°)	1989.6	6.7	B3/2500		
BM (30°-60°)	4982.0	16.8	B3/5000		
BH (60°-80°)	2089.9	7.0	B3/2500		G3/2500
BVH (80°-90°)	123.5	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	3389.9	3389.9	3389.9	3389.9	3389.9	3389.9	3389.9	3389.9	3389.9	3389.9	3389.9
2.5°	3338.1	3356.9	3352.2	3345.9	3345.9	3347.5	3345.9	3356.9	3367.9	3378.9	3396.2
5°	3372.6	3391.5	3382.1	3374.2	3367.9	3366.4	3361.6	3360.1	3366.4	3380.5	3404.1
7.5°	3440.3	3459.1	3445.0	3430.8	3418.2	3412.0	3405.7	3396.2	3391.5	3399.4	3432.4
10°	3515.7	3534.6	3517.3	3492.1	3471.7	3463.8	3457.6	3448.1	3441.8	3446.5	3482.7
12.5°	3591.2	3610.1	3586.5	3551.9	3525.2	3520.4	3512.6	3509.4	3507.9	3506.3	3542.5
15°	3662.0	3677.7	3647.8	3606.9	3578.6	3570.8	3562.9	3567.6	3575.5	3584.9	3625.8
17.5°	3717.0	3732.7	3688.7	3635.2	3608.5	3605.4	3600.6	3616.4	3638.4	3662.0	3712.3
20°	3767.3	3783.0	3726.4	3654.1	3622.7	3622.7	3624.2	3657.2	3688.7	3723.3	3792.5
22.5°	3838.1	3850.6	3781.5	3682.4	3636.8	3639.9	3652.5	3685.5	3724.9	3772.0	3867.9
25°	3943.4	3952.8	3867.9	3735.9	3684.0	3693.4	3704.4	3720.1	3757.9	3812.9	3941.8
27.5°	4113.2	4121.1	4009.4	3830.2	3751.6	3767.3	3783.0	3772.0	3789.3	3836.5	4001.6
30°	4352.2	4356.9	4215.4	3978.0	3866.4	3874.2	3877.4	3831.8	3798.8	3836.5	4044.0
32.5°	4635.2	4633.7	4465.4	4157.2	3996.9	3989.0	3962.3	3872.7	3795.6	3828.6	4081.8
35°	5073.9	5056.6	4839.6	4408.8	4144.7	4095.9	4033.0	3918.2	3811.3	3820.8	4114.8
37.5°	5800.3	5746.9	5446.6	4820.8	4364.8	4240.6	4147.8	3992.1	3845.9	3817.6	4154.1
40°	6619.5	6551.9	6221.7	5385.2	4695.0	4495.3	4345.9	4097.5	3902.5	3831.8	4212.3
42.5°	7591.2	7495.3	7140.0	6050.3	5113.2	4823.9	4599.1	4231.1	3985.9	3877.4	4290.9
45°	8784.6	8657.3	8154.1	6800.3	5640.0	5254.7	4954.4	4434.0	4113.2	3965.4	4408.8
47.5°	9990.6	10022.0	9306.6	7658.8	6272.0	5786.2	5399.4	4739.0	4298.8	4106.9	4599.1
50°	11272.0	11294.1	10452.9	8610.1	6989.0	6386.8	5899.4	5080.2	4556.6	4308.2	4883.7
52.5°	12272.0	12275.2	11493.7	9605.4	7735.9	7047.2	6438.7	5470.1	4855.4	4575.5	5262.6
55°	12897.8	12890.0	12223.3	10547.2	8594.4	7740.6	7036.2	5913.5	5220.1	4889.9	5739.0
57.5°	13352.2	13328.6	12726.4	11356.9	9509.5	8559.8	7712.3	6416.7	5651.0	5264.2	6366.4
60°	13525.2	13511.0	13067.6	12056.6	10471.7	9465.4	8492.2	6979.6	6140.0	5706.0	7173.0
62.5°	13591.2	13618.0	13402.5	12734.3	11501.6	10468.6	9349.1	7652.5	6690.3	6206.0	8023.6
65°	13823.9	13872.7	13828.6	13621.1	12665.1	11643.1	10485.9	8452.9	7290.9	6742.2	8912.0
67.5°	14284.6	14333.4	14352.2	14682.4	14086.5	13106.9	11904.1	9449.7	7993.7	7298.8	9580.2
70°	14273.6	14259.5	14592.8	15526.8	15866.4	15133.7	13816.1	10676.1	8831.8	7761.0	9665.1
72.5°	12992.2	12879.0	13666.7	15517.3	17347.5	17250.0	16151.0	12257.9	9555.1	7817.6	8386.8
75°	9746.9	9445.0	10836.5	13984.3	17594.4	18451.3	17635.3	13239.0	9383.7	6907.2	5836.5
77.5°	4168.2	3864.8	5504.7	10352.2	15746.9	17248.5	16273.6	11550.3	7490.6	4567.6	2866.4
80°	1091.2	1089.6	1663.5	4693.4	10709.1	12737.5	11174.6	7459.1	4279.9	1632.1	790.9
82.5°	451.3	440.3	611.6	1825.5	5232.7	7147.8	5833.3	3327.1	1545.6	441.8	262.6
85°	168.2	166.7	297.2	630.5	1845.9	2948.1	2133.7	850.6	385.2	215.4	117.9
87.5°	47.2	45.6	64.5	218.6	449.7	682.4	364.8	139.9	108.5	84.9	34.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3389.9	3389.9	3389.9	3389.9	3389.9	3389.9	3389.9	3389.9	3389.9	3389.9	3389.9
2.5°	3401.0	3408.8	3423.0	3434.0	3448.1	3463.8	3485.9	3500.0	3514.2	3523.6	3517.3
5°	3415.1	3432.4	3468.6	3504.7	3547.2	3586.5	3632.1	3665.1	3691.8	3699.7	3702.8
7.5°	3446.5	3474.9	3536.2	3597.5	3665.1	3729.6	3795.6	3852.2	3897.8	3915.1	3916.7
10°	3501.6	3539.3	3625.8	3712.3	3801.9	3901.0	3985.9	4067.6	4132.1	4158.8	4160.4
12.5°	3570.8	3617.9	3731.1	3850.6	3974.9	4111.6	4221.7	4322.3	4402.5	4438.7	4438.7
15°	3660.4	3721.7	3866.4	4026.7	4209.1	4399.4	4539.3	4651.0	4740.6	4784.6	4781.5
17.5°	3757.9	3839.6	4022.0	4264.2	4525.2	4775.2	4938.7	5020.5	5113.2	5155.7	5154.1
20°	3852.2	3952.8	4213.8	4566.0	4913.5	5179.3	5311.3	5333.3	5339.6	5344.4	5356.9
22.5°	3949.7	4084.9	4454.4	4946.6	5319.2	5503.2	5522.0	5427.7	5295.6	5234.3	5251.6
25°	4056.6	4235.9	4768.9	5366.4	5668.3	5690.3	5545.6	5316.1	5066.0	4951.3	4968.6
27.5°	4160.4	4410.4	5146.2	5767.3	5919.8	5726.4	5415.1	5089.6	4787.7	4666.7	4680.8
30°	4264.2	4610.1	5562.9	6117.9	6034.6	5636.8	5209.1	4845.9	4542.5	4415.1	4429.3
32.5°	4369.5	4842.8	6042.5	6371.1	6014.2	5446.6	4952.8	4572.3	4305.0	4171.4	4188.7
35°	4489.0	5128.9	6496.9	6509.4	5877.4	5166.7	4614.8	4245.3	4012.6	3905.7	3929.3
37.5°	4644.7	5492.2	6897.8	6544.0	5638.4	4756.3	4195.0	3858.5	3666.7	3617.9	3652.5
40°	4838.1	5929.3	7204.4	6489.0	5284.6	4257.9	3735.9	3467.0	3358.5	3369.5	3407.2
42.5°	5089.6	6418.3	7419.8	6347.5	4792.5	3743.7	3333.3	3213.8	3265.7	3309.8	3350.6
45°	5416.7	6926.1	7553.5	6106.9	4235.9	3308.2	3095.9	3124.2	3163.5	3168.2	3199.7
47.5°	5834.9	7440.3	7641.5	5743.7	3668.2	3001.6	2945.0	2951.3	2943.4	2910.4	2935.5
50°	6356.9	7940.3	7720.1	5262.6	3185.5	2809.8	2734.3	2712.3	2603.8	2496.9	2511.0
52.5°	6951.3	8399.4	7753.2	4665.1	2809.8	2649.4	2526.7	2388.4	2185.5	2152.5	2163.5
55°	7611.7	8823.9	7668.3	3930.8	2493.7	2443.4	2257.9	2091.2	2069.2	2040.9	2045.6
57.5°	8401.0	9281.5	7495.3	3111.6	2169.8	2202.8	2022.0	2040.9	2001.6	1957.6	1949.7
60°	9264.2	9754.7	7191.8	2364.8	1834.9	1902.5	1960.7	1959.1	1948.1	1912.0	1899.4
62.5°	10040.9	10066.1	6594.4	1811.3	1540.9	1669.8	1828.6	1827.0	1817.6	1797.2	1789.3
65°	10503.2	10018.9	5597.5	1426.1	1298.7	1478.0	1649.4	1662.0	1663.5	1662.0	1662.0
67.5°	10421.4	9467.0	4229.6	1135.2	1099.1	1283.0	1471.7	1489.0	1501.6	1504.7	1507.9
70°	9496.9	8254.7	2757.9	905.7	921.4	1111.6	1303.5	1320.8	1331.8	1344.3	1350.6
72.5°	7402.5	6069.2	1578.6	732.7	765.7	963.8	1136.8	1157.2	1163.5	1187.1	1196.5
75°	4511.0	3569.2	852.2	577.0	628.9	823.9	971.7	995.3	1006.3	1034.6	1037.7
77.5°	2144.7	1545.6	485.9	449.7	506.3	673.0	820.8	847.5	817.6	833.3	820.8
80°	724.8	573.9	306.6	342.8	386.8	525.2	657.2	684.0	621.1	617.9	611.6
82.5°	253.1	232.7	195.0	228.0	250.0	375.8	496.9	531.4	462.3	460.7	438.7
85°	99.1	94.3	108.5	124.2	149.4	231.1	327.0	344.3	284.6	229.6	226.4
87.5°	20.4	22.0	26.7	28.3	45.6	80.2	117.9	144.7	114.8	97.5	89.6
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)