

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: P970893

Luminaire Tested: **NVN-SB6C-735-U-T2R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P970893  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SB6C-735-U-T2R  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

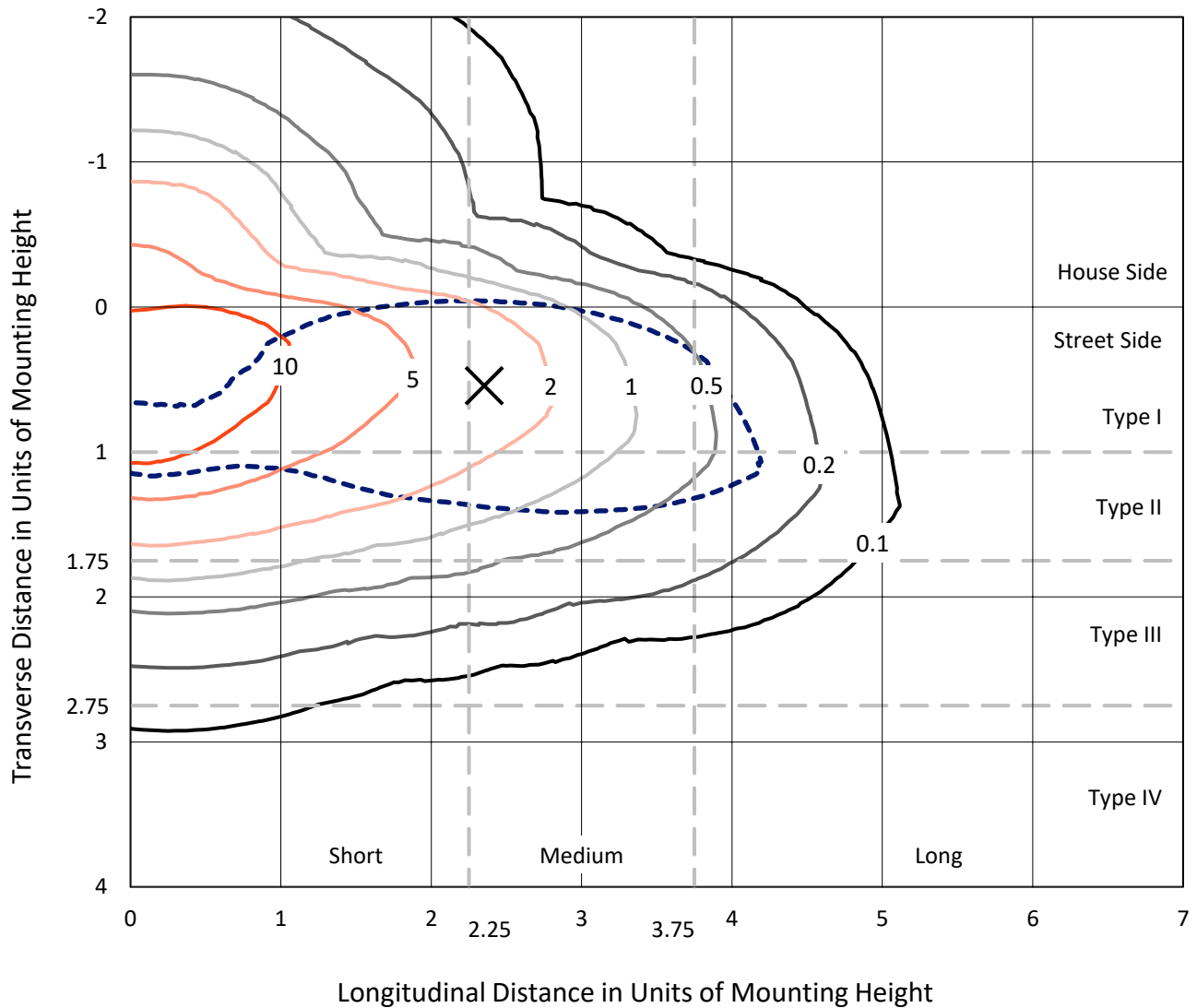
Lumens per Lamp: N/A  
Luminaire Lumens: 47413.4 lumens  
Efficiency: N/A  
Efficacy: 157.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 300.9  
Input Voltage (V): NR  
Input Current (Ain): 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



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### Iso-Footcandle Lines of Horizontal Illumination

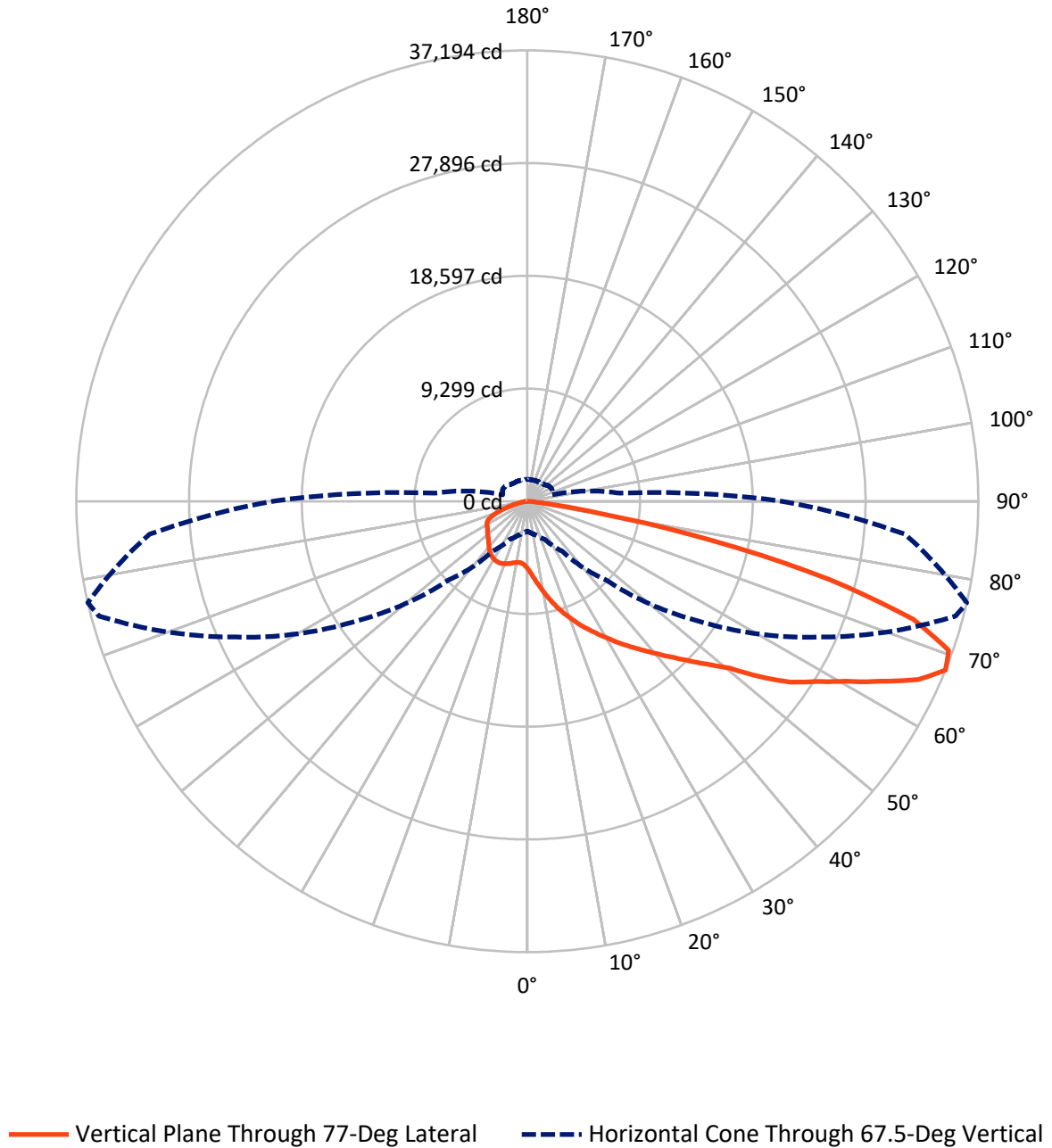
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.4 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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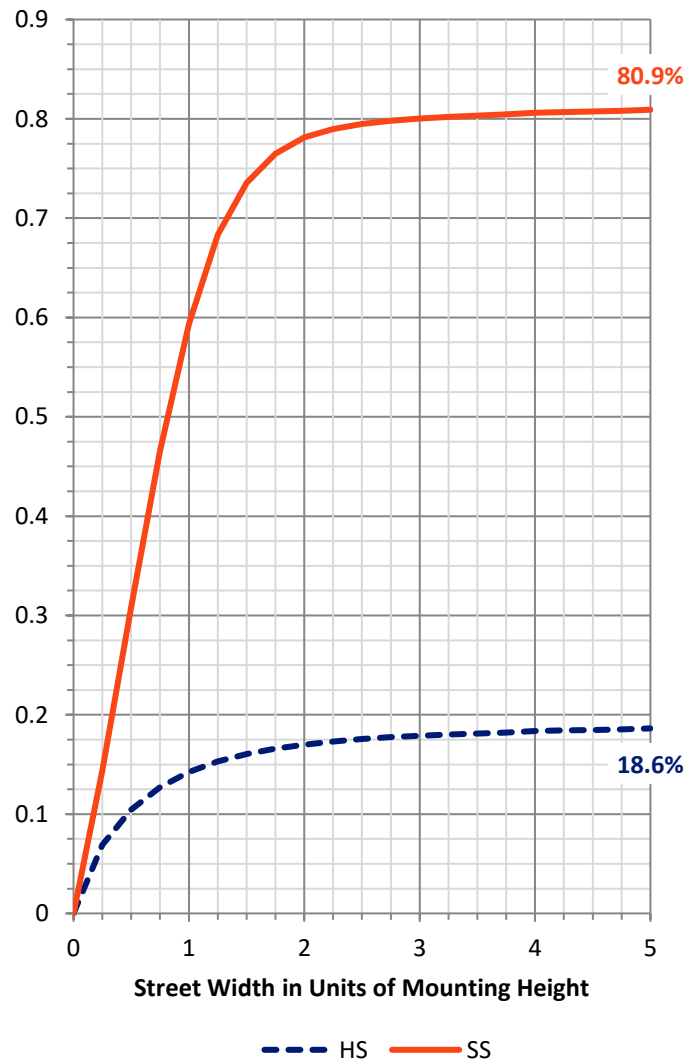
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8968.7	0.0	8968.7
	% Fixture	18.9	0.0	18.9
<b>Street Side</b>	Lumens	38444.7	0.0	38444.7
	% Fixture	81.1	0.0	81.1
<b>Total</b>	Lumens	47413.4	0.0	47413.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	596.3	1.3
10°-20°	2142.2	4.5
20°-30°	4044.7	8.5
30°-40°	6516.0	13.7
40°-50°	8912.7	18.8
50°-60°	10053.5	21.2
60°-70°	9383.7	19.8
70°-80°	5143.9	10.8
80°-90°	620.5	1.3
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°	47413.4	100.0
0°-180°	47413.4	100.0

**Coefficient of Utilization**



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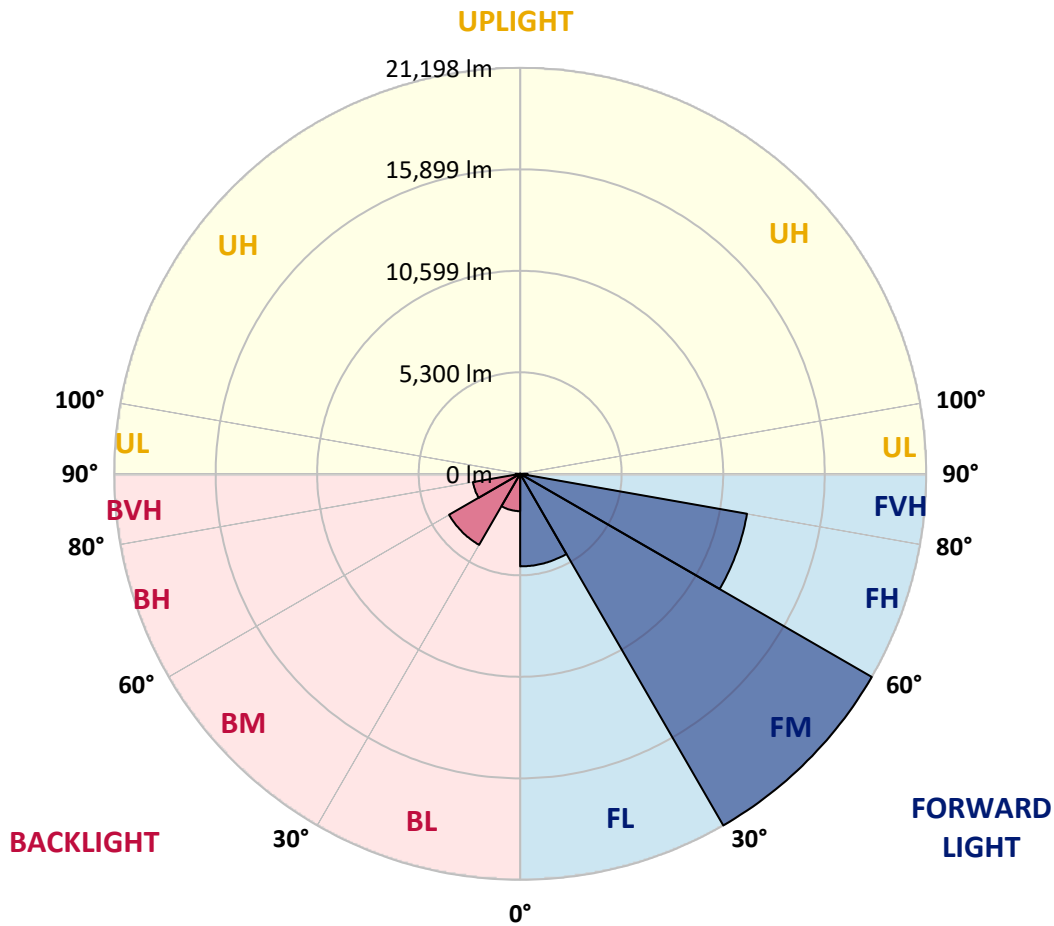
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4833.2	10.2			
FM (30°-60°)	21198.0	44.7			
FH (60°-80°)	12025.5	25.4			G5
FVH (80°-90°)	388.0	0.8			G3/500
BL (0°-30°)	1950.0	4.1	B3/2500		
BM (30°-60°)	4284.1	9.0	B3/5000		
BH (60°-80°)	2502.1	5.3	B4/5000		G4/5000
BVH (80°-90°)	232.4	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	5563.1	5563.1	5563.1	5563.1	5563.1	5563.1	5563.1	5563.1	5563.1	5563.1	5563.1
2.5°	6965.5	7014.4	6953.2	6953.2	6747.7	6640.0	6434.3	6277.7	5996.2	5947.4	5761.3
5°	8233.2	8294.4	8208.8	8172.0	7929.7	7707.1	7362.0	7021.8	6520.0	6468.7	6030.5
7.5°	9214.6	9293.0	9217.1	9178.0	8962.6	8712.9	8309.2	7834.3	7127.0	7026.7	6392.7
10°	10015.0	10027.3	10002.8	10017.4	9848.6	9643.0	9229.4	8676.2	7792.7	7655.6	6830.8
12.5°	10467.8	10524.1	10573.0	10661.1	10631.7	10504.5	10132.4	9471.6	8497.6	8321.4	7308.1
15°	10680.7	10778.6	10888.8	11091.8	11255.8	11287.7	11003.8	10325.8	9214.6	9001.8	7790.2
17.5°	10756.6	10849.5	11023.4	11317.0	11669.4	11906.9	11779.6	11155.5	9924.5	9679.7	8296.9
20°	11140.8	11167.8	11272.9	11552.0	11933.8	12327.9	12423.3	11953.3	10626.9	10350.2	8820.6
22.5°	11963.2	11909.4	11938.7	12066.0	12340.1	12721.9	12939.7	12658.2	11348.9	11030.6	9349.3
25°	13321.5	13164.9	13008.3	12861.4	13000.9	13216.2	13463.5	13363.1	12105.1	11701.3	9882.8
27.5°	15037.2	14846.3	14501.2	14019.0	13850.1	13926.1	14036.1	14016.6	12805.1	12396.3	10433.5
30°	16725.9	16503.2	16092.0	15394.5	14949.1	14748.4	14665.2	14608.9	13566.3	13130.6	10989.1
32.5°	18074.4	17898.2	17494.4	16713.6	16067.6	15724.9	15448.4	15247.7	14361.7	13926.1	11576.5
35°	19254.1	19090.1	18627.6	17775.9	17073.4	16708.8	16346.6	15918.2	15189.0	14748.4	12208.0
37.5°	20331.0	20167.1	19533.1	18647.2	17939.9	17687.8	17364.7	16637.8	16018.6	15602.6	12876.0
40°	21011.4	20974.7	20382.4	19379.0	18644.8	18519.9	18412.2	17472.4	16938.8	16552.1	13610.3
42.5°	21185.2	21266.0	20796.0	19971.2	19271.2	19170.9	19423.0	18417.1	17971.6	17602.1	14442.5
45°	20766.7	20999.2	20690.8	20130.3	19716.7	19662.9	20318.8	19449.9	19114.6	18776.9	15445.9
47.5°	19707.0	20101.0	19973.7	19895.4	19836.6	20069.1	21106.9	20546.4	20409.3	20115.6	16591.3
50°	17567.9	18314.3	18537.0	19031.4	19599.2	20384.9	21824.0	21743.2	21921.9	21625.8	17986.4
52.5°	13869.7	14897.7	16189.9	17428.4	18869.8	20279.6	22612.0	23461.3	24215.1	24053.6	20203.8
55°	11449.2	11911.7	12905.5	15176.7	17455.2	19836.6	22967.0	24849.0	26491.2	26346.9	21885.2
57.5°	9589.2	10002.8	10614.6	12511.4	15316.2	18830.7	23187.2	25695.8	28050.3	28035.6	23544.6
60°	7594.4	8032.5	8659.1	10002.8	12817.3	17093.0	23138.2	26660.1	30040.1	30162.5	25568.6
62.5°	5342.8	5825.0	6520.0	7773.1	10264.7	14841.4	22139.7	27357.7	32382.3	32715.1	28003.8
65°	3512.1	3830.2	4354.0	5435.8	7648.3	11946.1	20233.1	27448.3	34888.4	35451.4	30289.7
67.5°	2462.2	2584.5	2892.9	3480.3	5041.8	9160.8	17195.8	26510.8	36560.1	37194.0	31281.0
70°	1921.3	1982.5	2139.1	2374.0	3167.0	6160.2	13177.1	24073.1	36202.8	36863.6	30245.7
72.5°	1659.4	1718.1	1776.8	1806.3	2124.4	3803.4	8925.9	20127.9	32837.5	33285.4	26297.9
75°	1505.2	1519.9	1568.9	1559.0	1620.2	2467.1	5151.9	14665.2	25908.7	25754.6	19413.2
77.5°	1265.4	1284.9	1365.7	1353.4	1439.1	1686.3	2675.0	9464.3	16796.9	15749.3	10805.6
80°	1071.9	1081.8	1169.9	1155.2	1250.6	1221.3	1365.7	4824.0	7124.6	6035.4	3115.6
82.5°	372.0	460.1	893.3	920.2	954.5	739.1	788.1	1967.8	2175.8	1666.8	653.4
85°	181.1	193.3	455.2	646.2	643.7	372.0	384.3	702.4	685.3	538.4	217.8
87.5°	29.4	36.7	53.8	252.0	200.7	97.9	132.1	137.0	142.0	122.4	49.0
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°	5563.1	5563.1	5563.1	5563.1	5563.1	5563.1	5563.1	5563.1	5563.1	5563.1	5563.1
2.5°	5624.3	5501.9	5244.9	5007.5	4821.5	4642.8	4542.5	4456.8	4407.9	4398.1	4398.1
5°	5776.0	5523.9	5056.4	4662.4	4405.4	4214.5	4114.1	4050.5	4018.7	3999.1	3996.7
7.5°	5993.8	5624.3	4958.5	4510.6	4241.4	4104.4	4053.0	4043.2	4040.8	4043.2	4050.5
10°	6294.8	5788.3	4948.8	4473.9	4248.8	4172.9	4170.4	4172.9	4182.7	4185.2	4187.6
12.5°	6620.4	5957.1	4988.0	4505.8	4341.8	4300.2	4292.8	4290.3	4297.7	4302.6	4305.1
15°	6975.2	6179.8	5054.0	4574.3	4444.6	4400.5	4393.2	4378.5	4376.0	4373.6	4371.1
17.5°	7339.9	6400.1	5127.5	4647.8	4510.6	4449.5	4422.6	4388.3	4361.4	4354.0	4361.4
20°	7709.5	6617.9	5178.8	4684.5	4515.5	4429.8	4376.0	4317.3	4270.8	4243.9	4253.6
22.5°	8103.5	6845.6	5210.6	4674.6	4471.5	4354.0	4256.1	4187.6	4116.6	4070.1	4072.5
25°	8487.8	7043.8	5208.2	4623.3	4385.9	4236.5	4111.7	4023.6	3925.7	3876.8	3876.8
27.5°	8857.3	7222.5	5147.0	4532.7	4263.5	4097.0	3947.8	3842.5	3747.1	3700.6	3698.1
30°	9239.1	7371.7	5051.5	4400.5	4119.1	3935.5	3771.5	3681.0	3595.3	3551.2	3548.9
32.5°	9618.5	7508.8	4916.9	4236.5	3952.6	3776.4	3614.9	3531.6	3480.3	3480.3	3482.7
35°	10019.9	7604.3	4738.3	4045.7	3776.4	3607.6	3480.3	3431.3	3426.5	3397.1	3389.8
37.5°	10443.3	7665.5	4520.5	3849.8	3602.7	3443.6	3404.4	3345.7	3296.7	3233.1	3223.3
40°	10888.8	7726.7	4258.6	3646.7	3419.1	3330.9	3313.8	3235.5	3096.0	2939.4	2917.4
42.5°	11429.6	7768.3	3986.9	3443.6	3225.8	3196.4	3220.9	3086.3	2863.5	2746.1	2748.5
45°	12056.2	7836.7	3737.3	3242.9	3027.5	3027.5	3130.2	2954.0	2770.5	2697.1	2709.4
47.5°	12868.8	7995.8	3504.8	3022.6	2844.0	2892.9	2929.7	2795.0	2692.2	2601.7	2599.2
50°	14043.5	8377.6	3264.9	2799.9	2704.5	2802.4	2750.9	2672.6	2552.7	2479.3	2471.9
52.5°	15502.2	8602.8	3051.9	2599.2	2584.5	2682.4	2609.0	2535.5	2445.0	2347.1	2327.6
55°	16495.8	8644.4	2873.3	2452.3	2503.8	2493.9	2467.1	2401.0	2352.0	2222.3	2224.8
57.5°	17607.0	8727.7	2726.5	2364.3	2452.3	2344.7	2334.8	2278.6	2214.9	2126.9	2097.5
60°	18936.0	8857.3	2599.2	2329.9	2408.3	2246.8	2197.8	2175.8	2112.1	2068.1	2080.3
62.5°	20384.9	8974.8	2469.5	2334.8	2356.9	2151.3	2077.9	2070.5	2031.3	2016.7	2016.7
65°	21373.6	8654.2	2308.0	2329.9	2276.1	2053.4	1960.4	1958.0	1926.2	1921.3	1918.8
67.5°	<b>21028.6</b>	<b>7638.5</b>	<b>2090.1</b>	<b>2261.5</b>	<b>2192.9</b>	<b>1955.5</b>	<b>1852.7</b>	<b>1843.0</b>	<b>1801.3</b>	<b>1803.8</b>	<b>1803.8</b>
70°	19300.6	6189.7	1789.1	2092.5	2090.1	1867.4	1740.1	1708.4	1652.0	1661.8	1671.6
72.5°	16060.2	4586.6	1385.3	1811.1	1926.2	1786.7	1610.4	1559.0	1488.1	1497.8	1495.4
75°	11598.5	3118.0	1008.4	1377.9	1676.5	1691.1	1483.2	1395.0	1309.4	1324.1	1329.0
77.5°	5935.1	1767.1	741.6	949.7	1316.7	1537.0	1368.2	1250.6	1231.0	1368.2	1348.6
80°	1935.9	886.0	513.9	665.7	864.0	1258.0	1199.2	1064.7	1059.7	1091.5	937.4
82.5°	577.6	374.4	330.4	438.1	477.2	964.3	1035.2	805.2	692.6	729.4	753.8
85°	198.2	181.1	188.5	217.8	227.7	565.4	724.5	533.5	504.2	555.6	548.3
87.5°	46.5	63.7	53.8	49.0	49.0	137.0	281.5	222.7	308.4	205.6	198.2
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)