

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: P970527

Luminaire Tested: **NAV-SB6B-830-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970527
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6B-830-U-T3R
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32286.5 lumens
Efficiency: N/A
Efficacy: 146.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 220.4
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



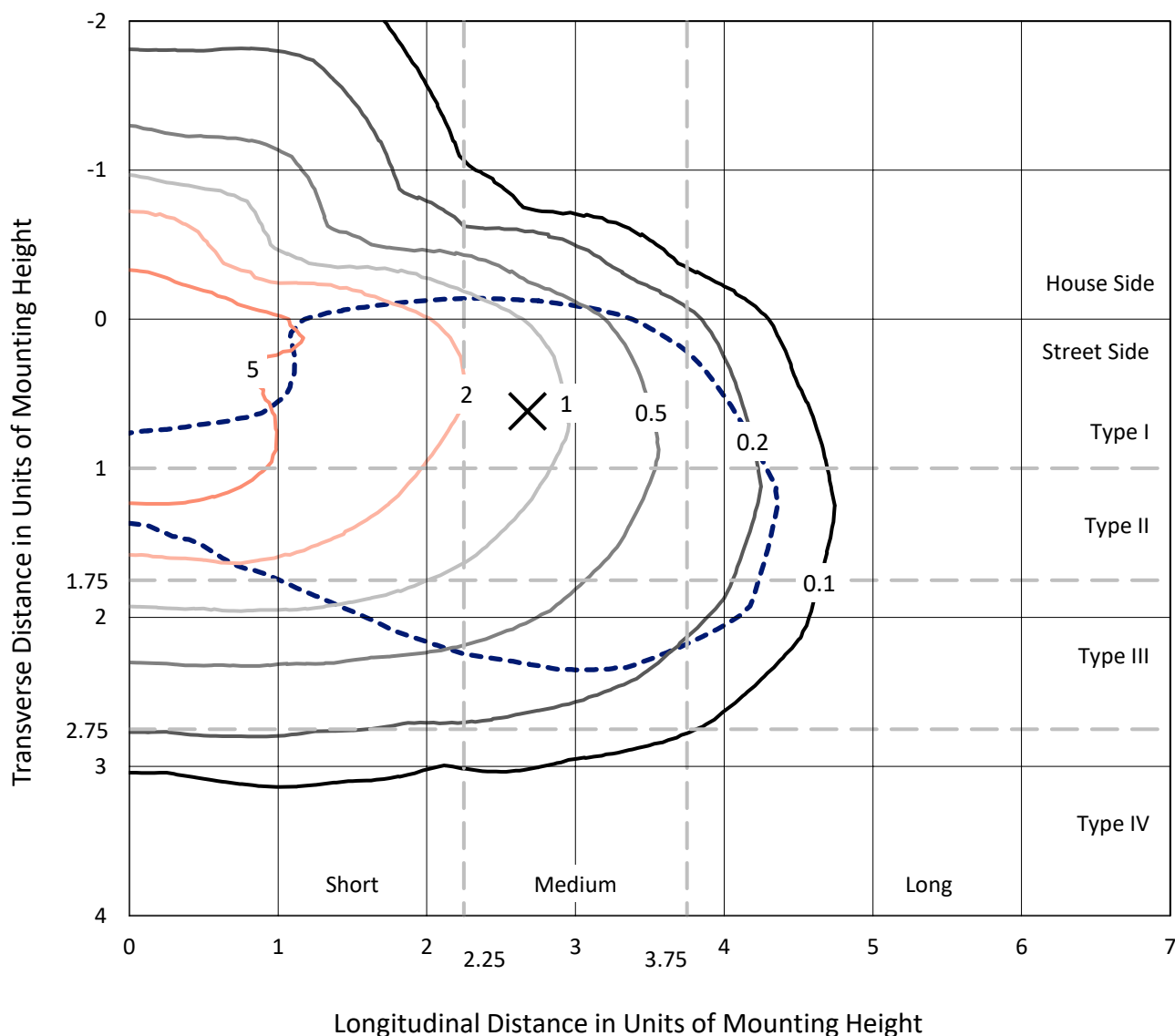
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

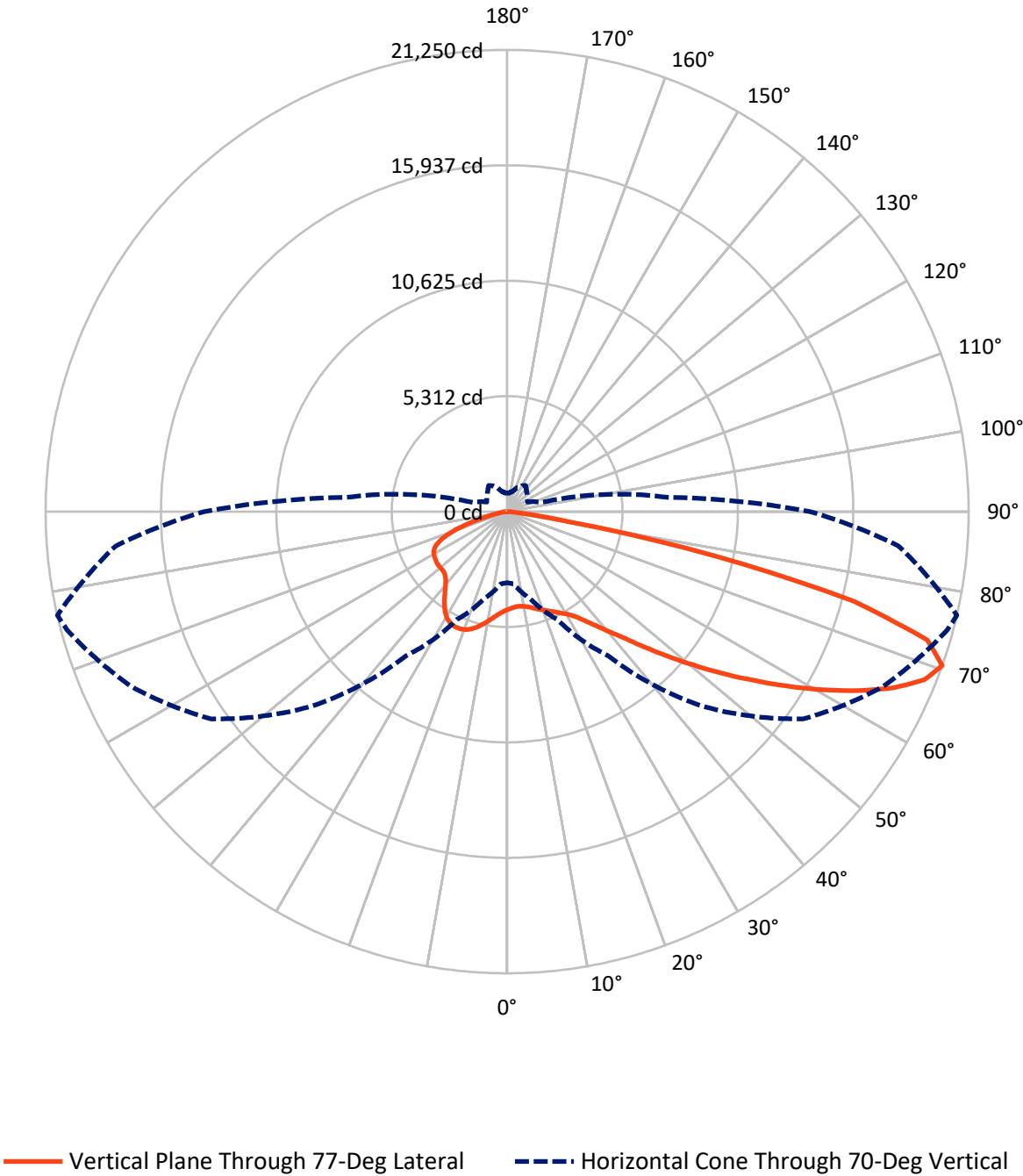
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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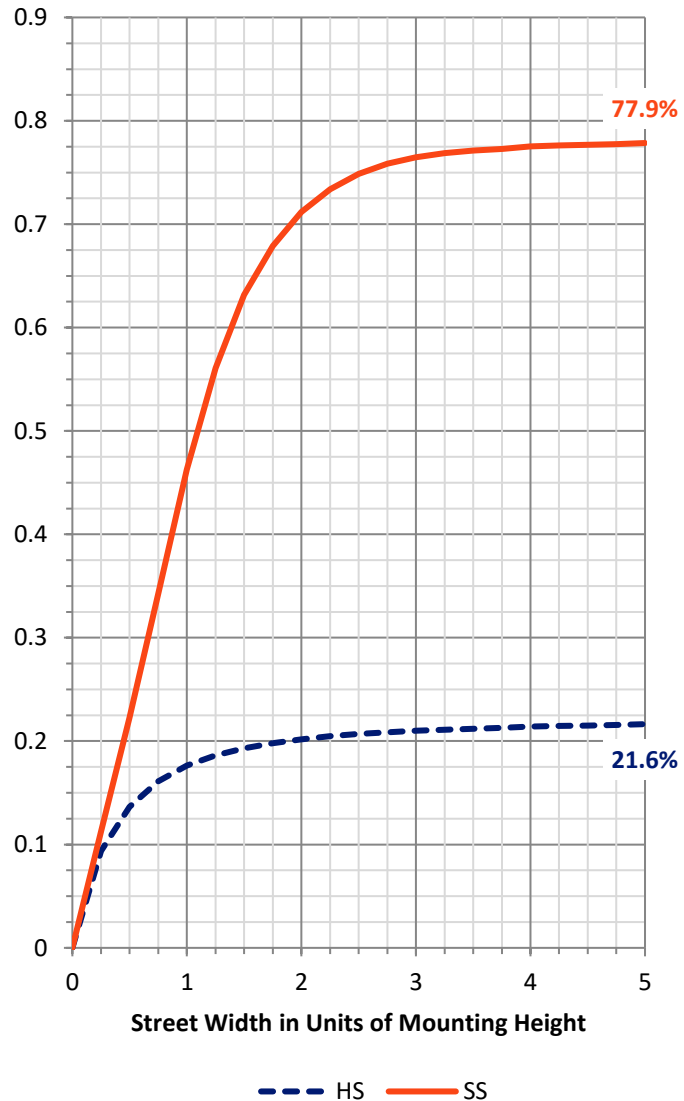
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7070.2	0.0	7070.2
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	25216.2	0.0	25216.2
	% Fixture	78.1	0.0	78.1
Total	Lumens	32286.5	0.0	32286.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	429.6	1.3
10°-20°	1239.8	3.8
20°-30°	2120.3	6.6
30°-40°	3409.6	10.6
40°-50°	5323.3	16.5
50°-60°	7110.7	22.0
60°-70°	7578.9	23.5
70°-80°	4665.5	14.5
80°-90°	408.8	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°	32286.5	100.0
0°-180°	32286.5	100.0

Coefficient of Utilization



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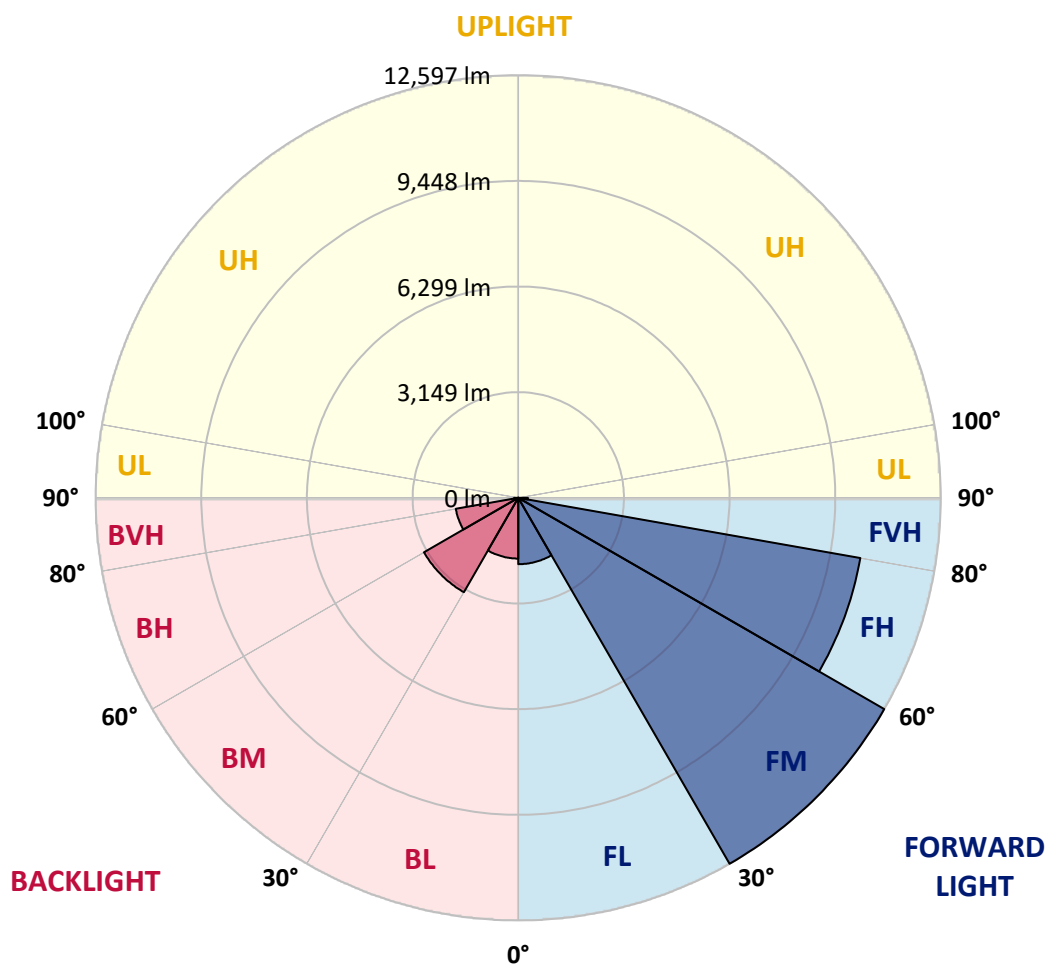
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1978.1	6.1			
FM	(30°-60°)	12597.5	39.0			
FH	(60°-80°)	10354.8	32.1			G4/12000
FVH	(80°-90°)	285.9	0.9			G3/500
BL	(0°-30°)	1811.6	5.6	B3/2500		
BM	(30°-60°)	3246.1	10.1	B3/5000		
BH	(60°-80°)	1889.6	5.9	B3/2500		G3/2500
BVH	(80°-90°)	122.9	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-G4

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	4504.3	4504.3	4504.3	4504.3	4504.3	4504.3	4504.3	4504.3	4504.3	4504.3	4504.3
2.5°	4152.1	4150.4	4171.9	4178.5	4218.2	4246.3	4299.3	4355.4	4428.2	4436.5	4481.1
5°	3912.3	3912.3	3937.1	3963.6	4014.8	4071.0	4152.1	4249.6	4375.3	4395.1	4505.9
7.5°	3708.9	3722.1	3743.6	3794.9	3854.4	3935.5	4059.4	4198.4	4363.7	4395.1	4573.8
10°	3545.2	3560.1	3586.6	3627.9	3717.2	3829.6	3991.7	4170.2	4391.8	4441.4	4672.9
12.5°	3493.9	3508.8	3523.7	3555.1	3637.8	3770.1	3963.6	4183.4	4459.6	4509.2	4808.5
15°	3613.0	3631.2	3619.6	3611.4	3654.3	3775.1	3976.8	4231.4	4543.9	4615.1	4975.6
17.5°	3887.5	3894.1	3867.6	3789.9	3783.3	3847.8	4039.6	4297.5	4649.8	4727.5	5144.2
20°	4330.6	4319.0	4264.5	4110.8	4023.1	4009.8	4147.0	4396.7	4758.9	4841.6	5326.1
22.5°	4932.5	4919.3	4810.1	4567.1	4371.9	4243.0	4302.5	4525.8	4881.3	4973.9	5503.0
25°	5683.2	5665.1	5504.7	5173.9	4871.3	4552.2	4514.2	4696.0	5031.7	5117.7	5688.2
27.5°	6559.6	6544.7	6371.1	5934.5	5498.0	4975.6	4777.1	4896.1	5188.9	5286.3	5896.5
30°	7502.2	7545.1	7237.5	6768.0	6215.7	5527.8	5130.9	5142.5	5392.2	5479.9	6149.5
32.5°	8610.0	8684.4	8314.0	7718.8	6964.8	6128.1	5577.4	5486.4	5688.2	5760.9	6468.7
35°	9708.0	9792.3	9484.7	8826.6	7958.5	6835.7	6043.7	5881.7	6081.7	6161.1	6892.0
37.5°	10657.1	10769.6	10610.8	10038.6	9021.7	7689.0	6652.2	6346.3	6566.3	6665.5	7460.8
40°	11406.2	11578.1	11566.5	11209.4	10275.1	8724.1	7424.4	6920.1	7168.1	7275.6	8150.3
42.5°	12014.6	12163.5	12292.4	12274.3	11583.1	9899.8	8332.2	7665.9	7854.4	7978.4	8925.8
45°	12434.7	12593.4	12871.2	13170.5	12841.4	11158.2	9372.3	8550.4	8722.4	8909.3	9850.1
47.5°	12810.0	12990.2	13350.7	13825.3	13909.7	12421.5	10511.6	9580.7	9737.7	9931.2	10777.8
50°	12843.0	12998.5	13557.5	14230.4	14668.6	13635.2	11735.2	10736.5	10883.7	11090.3	11771.6
52.5°	12044.5	12289.1	13264.7	14218.8	15017.5	14650.4	12950.6	11938.6	12103.9	12352.0	12800.1
55°	9349.1	9708.0	12406.6	13775.7	14893.5	15306.8	14106.4	13216.8	13428.4	13688.1	13835.2
57.5°	8052.8	8209.8	9848.5	12968.7	14328.0	15477.2	15082.0	14508.2	14848.9	15133.2	14929.8
60°	7237.5	7368.2	8337.1	11713.7	13583.9	15207.6	15836.0	15712.0	16300.7	16639.6	16049.3
62.5°	6364.5	6488.6	7369.9	9780.8	12631.4	14759.6	16312.3	16823.2	17788.9	18159.2	17104.3
65°	5498.0	5603.9	6448.8	8218.1	11421.1	14311.5	16558.6	17783.9	19166.3	19549.8	17980.7
67.5°	4532.3	4620.0	5418.7	6933.3	9949.4	13698.0	16681.0	18539.6	20365.1	20694.1	18413.9
70°	3270.7	3338.5	4163.7	5483.1	8102.4	12643.0	16631.3	19075.2	20986.8	21249.7	18086.4
72.5°	1546.1	1607.2	2576.2	3560.1	5722.9	10589.3	15627.7	18650.4	20355.2	20224.5	16082.4
75°	825.1	878.0	1479.9	1952.8	3022.7	7259.0	12788.5	16065.8	17092.7	16457.7	11885.7
77.5°	558.9	600.2	916.0	1172.4	1380.7	3445.9	8219.8	11123.4	10701.7	9653.3	5952.8
80°	443.1	486.2	750.7	793.7	668.0	1245.2	3396.3	5149.2	3699.0	2958.1	1693.2
82.5°	340.6	388.6	631.6	575.4	363.8	511.0	988.8	1628.7	947.5	721.0	410.1
85°	208.4	259.6	496.1	367.1	205.0	233.2	335.7	453.0	289.4	241.4	147.2
87.5°	105.8	148.8	251.3	134.0	92.6	54.5	89.3	89.3	76.1	66.1	38.0
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°	4504.3	4504.3	4504.3	4504.3	4504.3	4504.3	4504.3	4504.3	4504.3	4504.3	4504.3
2.5°	4520.8	4553.9	4610.0	4663.0	4704.3	4744.0	4783.7	4805.2	4811.9	4838.3	4853.2
5°	4573.8	4634.8	4744.0	4846.5	4911.0	4950.8	4978.8	4995.3	4998.6	5006.9	5020.1
7.5°	4671.2	4768.8	4920.9	5023.4	5071.4	5068.1	5056.5	5015.2	4998.6	4983.8	4987.1
10°	4808.5	4937.5	5124.4	5195.4	5165.7	5086.3	4983.8	4863.1	4806.8	4752.3	4735.7
12.5°	4978.8	5142.5	5326.1	5322.7	5175.6	4972.2	4734.1	4549.0	4431.5	4347.1	4327.3
15°	5185.5	5374.0	5514.6	5402.2	5079.7	4714.3	4365.4	4124.0	4018.1	3925.5	3915.6
17.5°	5398.8	5600.6	5665.1	5377.4	4838.3	4332.3	3937.1	3746.9	3642.7	3593.1	3608.0
20°	5607.2	5807.2	5754.3	5235.1	4471.2	3899.1	3546.8	3442.7	3421.1	3432.7	3427.8
22.5°	5827.1	6005.7	5772.5	4960.6	4003.2	3455.9	3262.5	3265.8	3313.7	3348.5	3356.7
25°	6052.0	6172.7	5724.6	4563.8	3500.6	3130.1	3082.2	3135.2	3229.4	3297.2	3315.4
27.5°	6268.6	6321.5	5620.4	4072.6	3069.0	2897.1	2905.3	3014.4	3156.6	3250.9	3274.1
30°	6513.4	6453.8	5420.3	3520.4	2769.7	2697.0	2766.4	2893.7	3035.9	3120.2	3140.1
32.5°	6789.5	6567.9	5102.9	3009.5	2558.0	2536.6	2650.6	2733.3	2796.1	2820.9	2834.2
35°	7133.4	6728.3	4696.0	2650.6	2367.9	2419.1	2528.3	2487.0	2462.2	2448.9	2462.2
37.5°	7579.9	6944.9	4219.8	2417.5	2214.1	2334.8	2379.4	2250.5	2152.9	2104.9	2116.5
40°	8117.3	7262.3	3761.9	2237.3	2116.5	2262.1	2184.4	2028.9	1904.9	1837.1	1842.0
42.5°	8714.1	7594.7	3376.6	2101.7	2062.0	2202.5	2040.5	1855.2	1655.2	1633.7	1655.2
45°	9340.9	7937.0	3113.6	1997.5	2035.5	2151.3	1957.7	1658.6	1516.3	1603.9	1650.2
47.5°	9967.6	8251.1	2954.9	1919.7	2022.3	2093.4	1885.1	1549.4	1448.5	1575.8	1635.4
50°	10665.3	8532.3	2883.7	1863.6	2007.4	2070.2	1775.9	1521.3	1377.4	1461.8	1524.6
52.5°	11358.2	8750.5	2830.8	1807.3	1985.9	2052.0	1723.0	1488.2	1291.4	1296.4	1331.1
55°	12049.4	8892.8	2773.0	1732.9	1938.0	2012.4	1718.0	1451.8	1226.9	1203.8	1220.4
57.5°	12786.9	8973.8	2701.9	1650.2	1855.2	1911.5	1713.1	1423.7	1207.0	1169.0	1174.0
60°	13537.6	9092.9	2609.3	1549.4	1744.4	1790.8	1701.5	1413.8	1195.6	1131.0	1136.0
62.5°	14210.6	9134.2	2498.5	1453.4	1602.3	1671.8	1676.7	1405.5	1164.1	1053.3	1053.3
65°	14652.1	8955.6	2305.0	1344.3	1448.5	1549.4	1628.7	1377.4	1107.9	997.1	997.1
67.5°	14633.9	8446.3	2002.4	1203.8	1299.7	1413.8	1559.3	1329.4	1040.1	927.6	932.6
70°	13952.6	7441.0	1618.8	1040.1	1136.0	1268.2	1470.0	1258.4	959.1	851.6	861.5
72.5°	11966.7	5823.7	1175.7	848.3	945.9	1117.8	1354.2	1172.4	876.4	783.8	778.8
75°	8548.8	3685.8	797.0	651.5	735.8	947.5	1210.4	1071.5	800.3	787.1	742.4
77.5°	4367.0	1761.1	527.5	476.2	512.6	747.4	1016.9	957.5	811.9	649.8	578.7
80°	1420.4	649.8	332.4	324.1	340.6	497.7	787.1	785.5	615.1	441.5	390.2
82.5°	453.0	279.4	216.6	208.4	200.1	312.5	549.0	621.8	415.0	279.4	277.8
85°	180.2	167.0	127.3	117.4	84.4	147.2	287.7	413.4	309.2	201.7	206.7
87.5°	66.1	66.1	34.7	24.8	18.1	49.6	77.7	124.0	176.9	104.1	102.5
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)