

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: P970561

Luminaire Tested: **NAV-SB6B-835-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970561
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6B-835-U-T4FT
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32086.6 lumens
Efficiency: N/A
Efficacy: 145.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

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



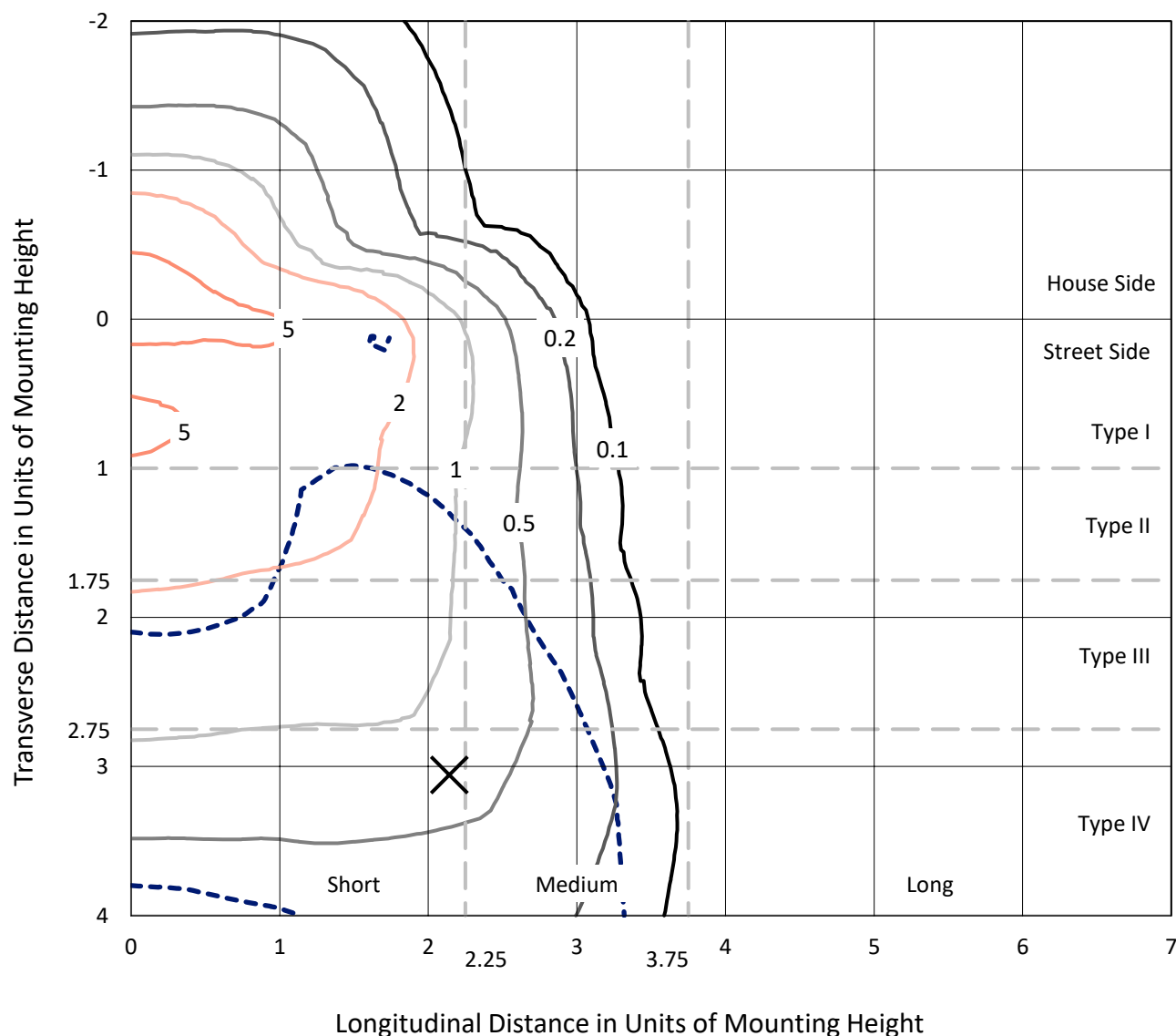
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

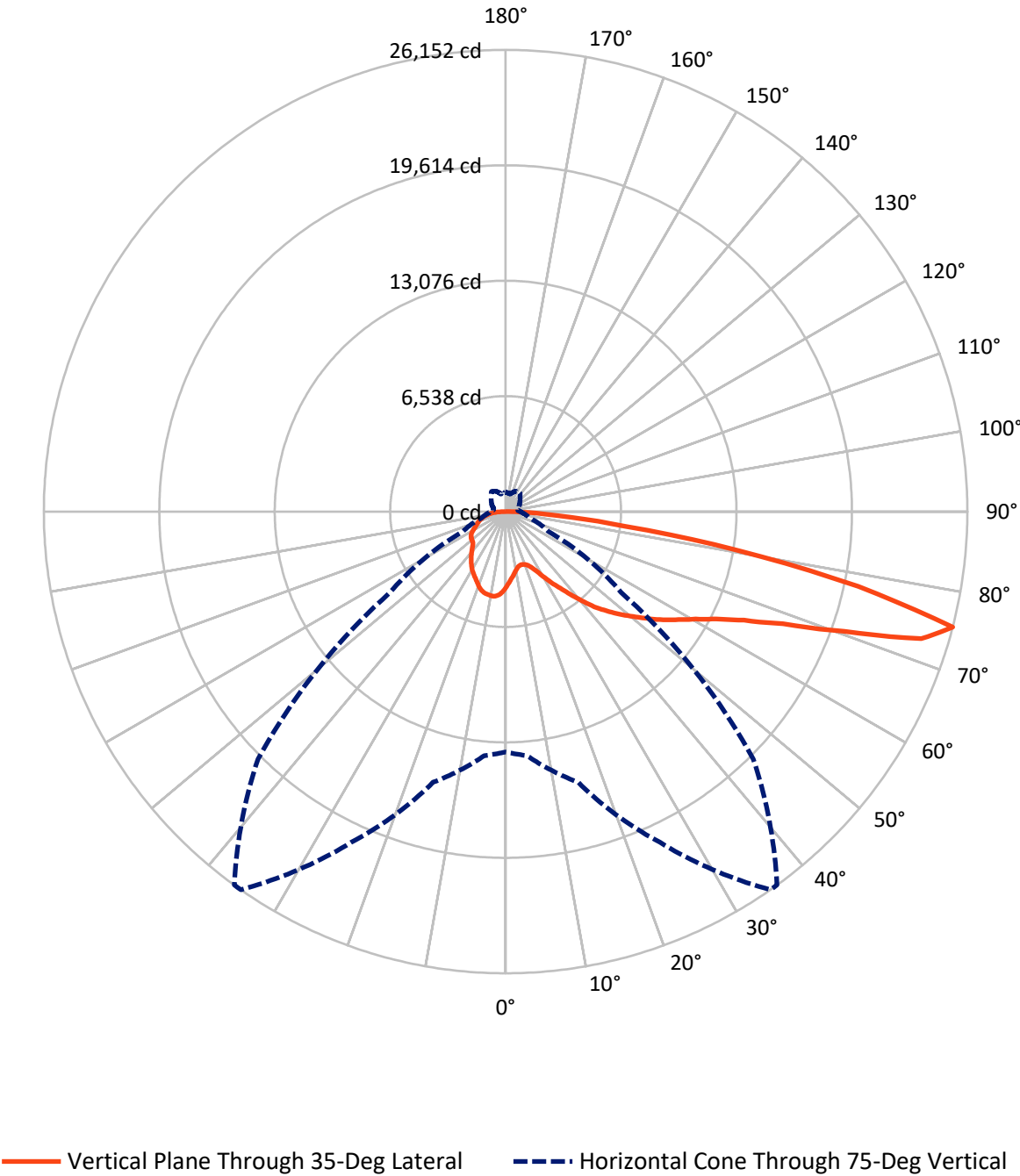


Based on 25 foot mounting height. Maximum calculated value = 7.6 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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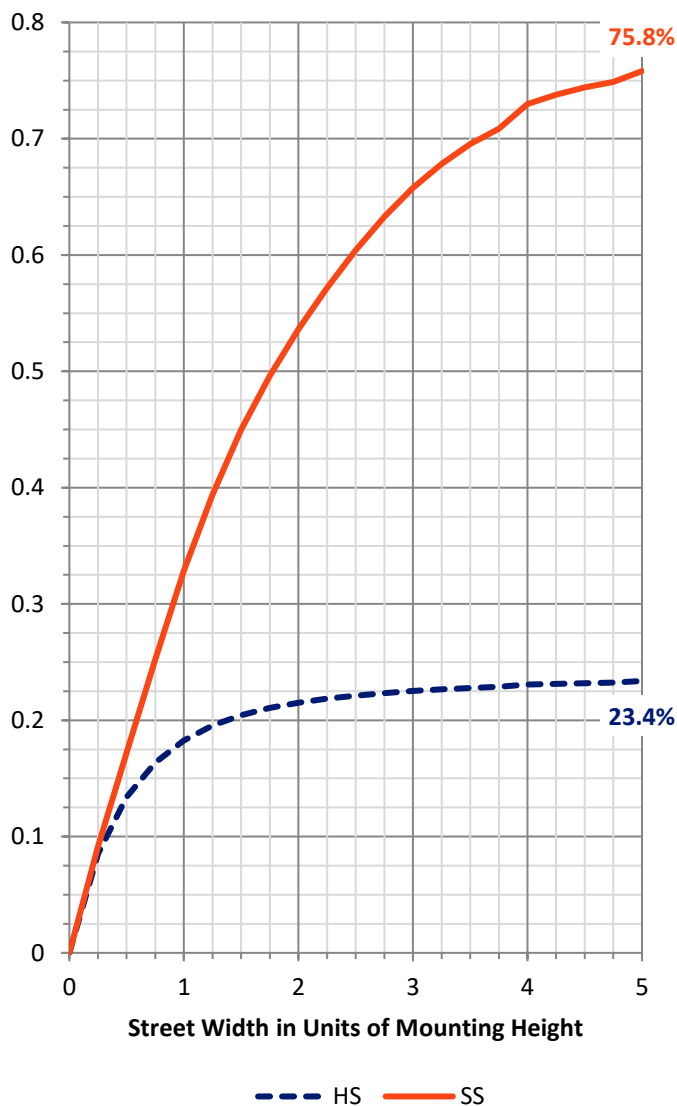
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7635.8	0.0	7635.8
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	24450.8	0.0	24450.8
	% Fixture	76.2	0.0	76.2
Total	Lumens	32086.6	0.0	32086.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	404.8	1.3
10°-20°	1167.7	3.6
20°-30°	1960.9	6.1
30°-40°	3047.5	9.5
40°-50°	4523.3	14.1
50°-60°	6244.6	19.5
60°-70°	7576.2	23.6
70°-80°	6261.1	19.5
80°-90°	900.5	2.8
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°	32086.6	100.0
0°-180°	32086.6	100.0

Coefficient of Utilization



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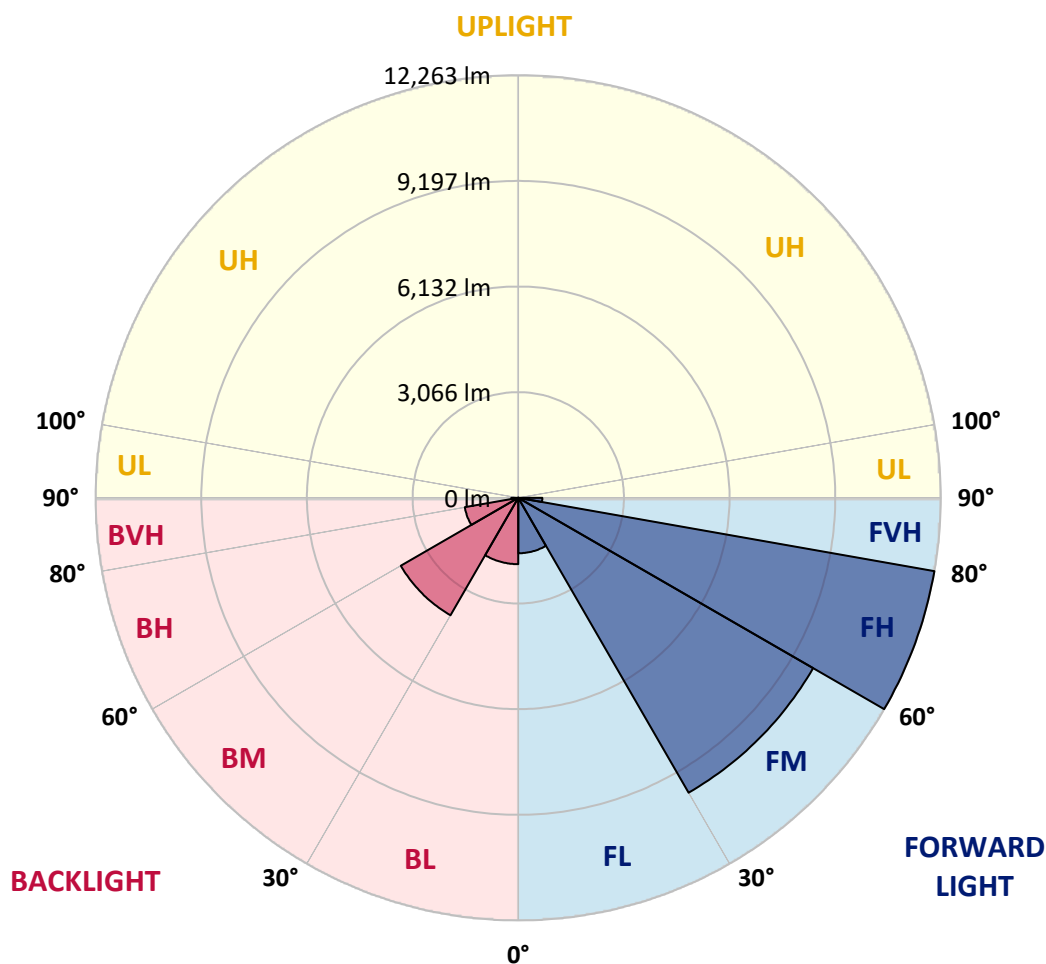
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1609.1	5.0			
FM	(30°-60°)	9880.9	30.8			
FH	(60°-80°)	12263.0	38.2			G5
FVH	(80°-90°)	697.8	2.2			G4/750
BL	(0°-30°)	1924.3	6.0	B3/2500		
BM	(30°-60°)	3934.4	12.3	B3/5000		
BH	(60°-80°)	1574.3	4.9	B3/2500		G3/2500
BVH	(80°-90°)	202.8	0.6			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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	4275.8	4275.8	4275.8	4275.8	4275.8	4275.8	4275.8	4275.8	4275.8	4275.8	4275.8
2.5°	3942.8	3967.0	3977.4	3972.2	3998.2	3994.7	4031.2	4076.3	4138.7	4199.4	4287.9
5°	3639.2	3665.2	3687.7	3708.6	3758.9	3774.5	3831.7	3918.5	4033.0	4149.1	4294.9
7.5°	3356.5	3379.0	3413.7	3451.8	3536.9	3552.4	3647.9	3783.2	3942.8	4112.7	4313.9
10°	3125.7	3148.3	3184.7	3228.0	3333.9	3353.0	3474.3	3654.7	3862.9	4078.0	4334.7
12.5°	3026.8	3033.8	3054.6	3098.0	3189.9	3202.0	3335.7	3542.0	3784.9	4052.0	4366.0
15°	3021.7	3035.5	3037.3	3059.8	3136.1	3141.3	3264.5	3469.2	3736.3	4046.8	4412.8
17.5°	3073.7	3084.1	3068.4	3082.4	3146.5	3155.3	3252.3	3434.5	3720.6	4069.4	4492.6
20°	3212.5	3221.2	3174.3	3155.3	3202.0	3209.0	3304.4	3457.0	3736.3	4116.2	4601.8
22.5°	3507.3	3512.6	3398.1	3320.0	3323.5	3326.9	3410.2	3549.0	3797.0	4201.2	4740.6
25°	3967.0	3963.6	3781.4	3630.4	3543.7	3524.7	3580.2	3698.1	3899.3	4313.9	4919.3
27.5°	4504.8	4478.7	4296.6	4071.1	3882.0	3854.2	3842.1	3892.4	4045.1	4463.1	5137.8
30°	5111.8	5087.6	4891.5	4596.6	4334.7	4289.6	4175.1	4149.1	4261.8	4666.0	5441.4
32.5°	5777.9	5762.3	5528.1	5170.8	4820.4	4768.4	4575.8	4506.4	4594.9	4973.1	5864.6
35°	6336.4	6322.6	6128.3	5760.6	5332.2	5268.0	5071.9	4993.9	5039.0	5366.8	6417.9
37.5°	6841.3	6834.3	6667.7	6378.1	5935.8	5857.7	5637.4	5611.4	5602.8	5885.4	7089.2
40°	7309.6	7292.2	7118.7	6966.1	6638.3	6567.2	6372.8	6350.3	6284.4	6523.8	7849.0
42.5°	7828.2	7783.1	7531.6	7460.5	7372.0	7313.1	7196.8	7200.3	7054.6	7243.7	8653.9
45°	8251.5	8225.4	7966.9	7925.3	8020.7	7996.4	8097.1	8123.0	7840.3	7998.2	9490.0
47.5°	8705.9	8681.6	8463.0	8433.6	8692.0	8699.0	9054.5	9063.3	8607.0	8782.2	10327.7
50°	9266.2	9231.5	9014.7	9051.1	9340.7	9366.8	10017.2	9958.3	9313.0	9578.4	11158.6
52.5°	9635.6	9656.4	9609.6	9668.6	10064.1	10088.4	10964.3	10813.4	10012.0	10364.2	11973.8
55°	9908.0	9949.6	10095.3	10230.6	10827.3	10851.6	11857.6	11627.0	10591.4	11092.7	12740.5
57.5°	10258.3	10199.4	10471.7	10735.3	11552.4	11616.5	12726.7	12411.0	11104.8	11720.6	13266.2
60°	10761.4	10719.8	10931.3	11321.6	12364.2	12466.5	13646.0	13116.9	11481.2	12218.4	13368.5
62.5°	11781.3	11677.2	11710.2	12055.3	13387.5	13522.8	14683.2	13732.7	11668.6	12412.7	12820.3
65°	13306.0	13127.4	12960.8	13200.2	14829.0	14962.5	15854.1	14216.6	11599.2	12036.3	11365.0
67.5°	15226.2	15049.3	14844.6	15070.1	16952.2	17057.9	17299.0	14489.0	11052.8	10586.2	8792.7
70°	16809.9	16744.0	16988.6	17916.6	20343.3	20346.7	19151.6	14263.5	9555.9	7505.6	5087.6
72.5°	16600.0	16560.1	17848.9	20717.9	24617.2	24525.3	20905.3	12556.7	6437.1	3385.9	1906.3
75°	13618.3	13876.7	15873.3	20667.6	26152.4	26140.3	19831.5	7982.6	2662.5	1403.3	985.2
77.5°	7302.6	7712.0	10305.1	15259.2	20416.1	20723.1	13942.6	2792.7	1143.1	898.5	681.7
80°	2381.6	2738.9	4107.5	7769.2	13266.2	13208.9	5975.6	1096.2	782.3	636.6	471.8
82.5°	1011.3	1052.9	1835.2	3668.7	6808.3	6702.5	1902.8	629.7	549.9	435.4	291.4
85°	395.4	442.3	810.1	1696.4	2948.8	2884.7	686.9	312.2	352.1	284.4	173.4
87.5°	130.1	157.8	289.7	581.1	917.6	884.7	168.3	107.5	152.6	130.1	62.4
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°	4275.8	4275.8	4275.8	4275.8	4275.8	4275.8	4275.8	4275.8	4275.8	4275.8	4275.8
2.5°	4312.2	4340.0	4372.9	4421.4	4463.1	4497.8	4534.2	4556.7	4565.5	4591.5	4589.7
5°	4343.4	4404.1	4485.6	4565.5	4643.5	4690.3	4731.9	4752.7	4771.9	4785.7	4789.2
7.5°	4395.4	4473.5	4601.8	4706.0	4771.9	4810.0	4837.8	4830.8	4837.8	4841.3	4846.4
10°	4440.5	4549.8	4702.5	4801.3	4851.6	4853.4	4846.4	4822.1	4810.0	4811.8	4815.2
12.5°	4494.3	4615.8	4780.5	4863.8	4877.7	4839.5	4810.0	4768.4	4752.7	4745.9	4742.4
15°	4567.2	4706.0	4865.5	4896.7	4862.1	4813.5	4763.2	4695.5	4660.9	4633.1	4641.7
17.5°	4655.7	4808.3	4931.5	4908.9	4834.3	4754.5	4673.0	4570.7	4499.5	4470.0	4471.8
20°	4778.8	4915.8	4981.7	4882.9	4770.1	4648.7	4509.9	4385.1	4319.1	4289.6	4286.1
22.5°	4928.0	5059.8	5030.3	4837.8	4678.2	4483.9	4310.4	4218.5	4185.6	4164.8	4168.2
25°	5106.7	5219.4	5065.0	4771.9	4527.3	4265.3	4131.8	4102.3	4086.7	4071.1	4071.1
27.5°	5339.0	5399.8	5091.0	4674.7	4291.4	4033.0	3984.4	3989.5	3984.4	3958.3	3963.6
30°	5646.1	5633.9	5115.3	4516.9	4020.8	3823.0	3826.5	3849.1	3852.6	3835.1	3843.9
32.5°	6050.3	5927.1	5127.5	4312.2	3762.4	3639.2	3642.6	3666.9	3684.3	3654.7	3668.7
35°	6539.4	6268.8	5108.4	4055.5	3562.8	3464.0	3438.0	3444.9	3450.0	3422.4	3441.4
37.5°	7110.1	6652.1	5023.3	3771.0	3398.1	3292.2	3236.7	3189.9	3162.1	3136.1	3153.5
40°	7736.3	7070.1	4867.2	3493.5	3214.2	3110.2	3026.8	2938.4	2844.7	2810.0	2825.6
42.5°	8391.9	7500.3	4678.2	3228.0	3002.5	2917.6	2829.1	2700.8	2560.2	2489.1	2497.8
45°	9071.9	7941.0	4492.6	2966.1	2785.7	2749.4	2647.0	2492.6	2340.0	2249.8	2242.8
47.5°	9738.0	8357.2	4220.2	2702.5	2582.8	2622.7	2542.9	2400.7	2230.7	2088.4	2072.9
50°	10374.5	8747.6	3774.5	2435.4	2418.0	2584.5	2508.2	2303.5	2109.2	1927.1	1911.5
52.5°	11005.9	9063.3	3203.7	2192.5	2329.5	2574.1	2463.1	2237.6	2000.0	1809.1	1788.3
55°	11541.9	9226.2	2653.9	1984.4	2201.2	2485.6	2409.4	2159.6	1845.6	1642.7	1625.3
57.5°	11847.3	9094.4	2196.0	1779.7	2024.3	2340.0	2317.4	1993.0	1661.7	1505.6	1484.8
60°	11715.4	8560.2	1821.3	1601.0	1856.0	2182.1	2157.8	1828.3	1521.2	1373.8	1353.0
62.5°	10988.6	7541.9	1524.7	1444.9	1703.3	2020.8	1998.2	1701.6	1413.7	1271.4	1248.9
65°	9524.6	6135.2	1294.0	1314.8	1549.0	1826.6	1859.5	1595.8	1328.7	1189.9	1167.4
67.5°	7264.5	4444.0	1113.6	1202.0	1398.1	1635.7	1731.1	1519.5	1257.6	1125.8	1104.9
70°	4140.5	2523.9	960.9	1092.8	1264.5	1458.8	1632.2	1458.8	1181.2	1071.9	1058.1
72.5°	1569.8	1158.7	830.9	983.5	1136.1	1309.6	1522.9	1363.4	1092.8	1011.3	997.4
75°	837.8	706.0	699.0	855.2	988.7	1163.9	1385.9	1269.7	1026.8	1068.5	1103.2
77.5°	570.7	499.6	584.6	732.0	827.4	1002.6	1240.2	1127.5	889.8	886.4	817.0
80°	395.4	353.8	475.3	589.8	640.1	843.0	1082.4	967.9	725.1	676.5	647.0
82.5°	237.6	230.7	355.6	440.5	452.7	650.5	896.8	811.8	593.3	516.9	520.4
85°	130.1	137.0	227.2	258.4	263.6	454.5	702.5	627.9	456.2	383.3	386.8
87.5°	36.4	46.8	83.2	102.3	126.6	236.0	418.0	372.9	229.0	159.6	159.6
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)