

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: P969972

Luminaire Tested: **NAV-SB6A-827-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969972
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-SB6A-827-U-T4FT
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23963.5 lumens
Efficiency: N/A
Efficacy: 140.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 170.9
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



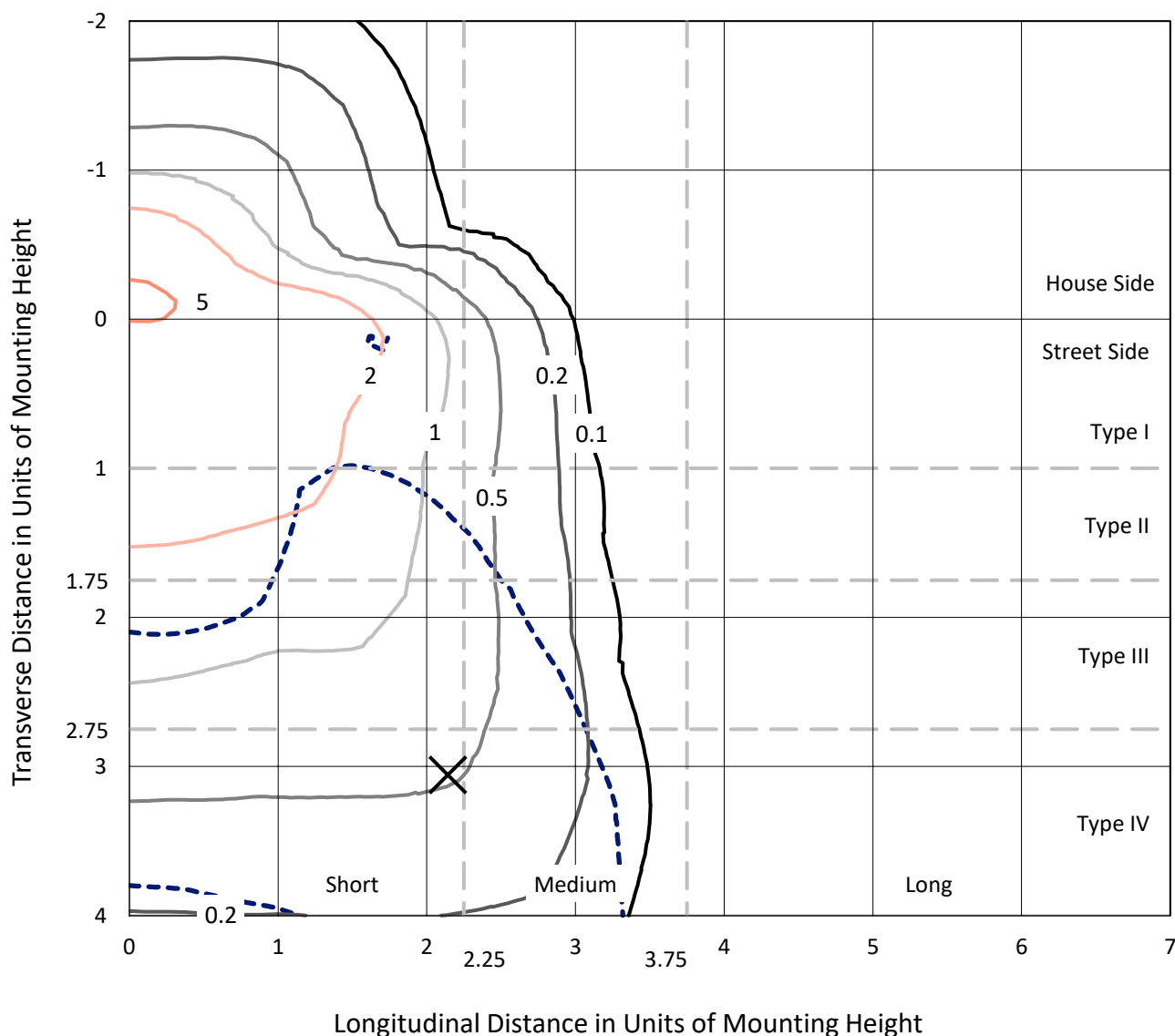
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

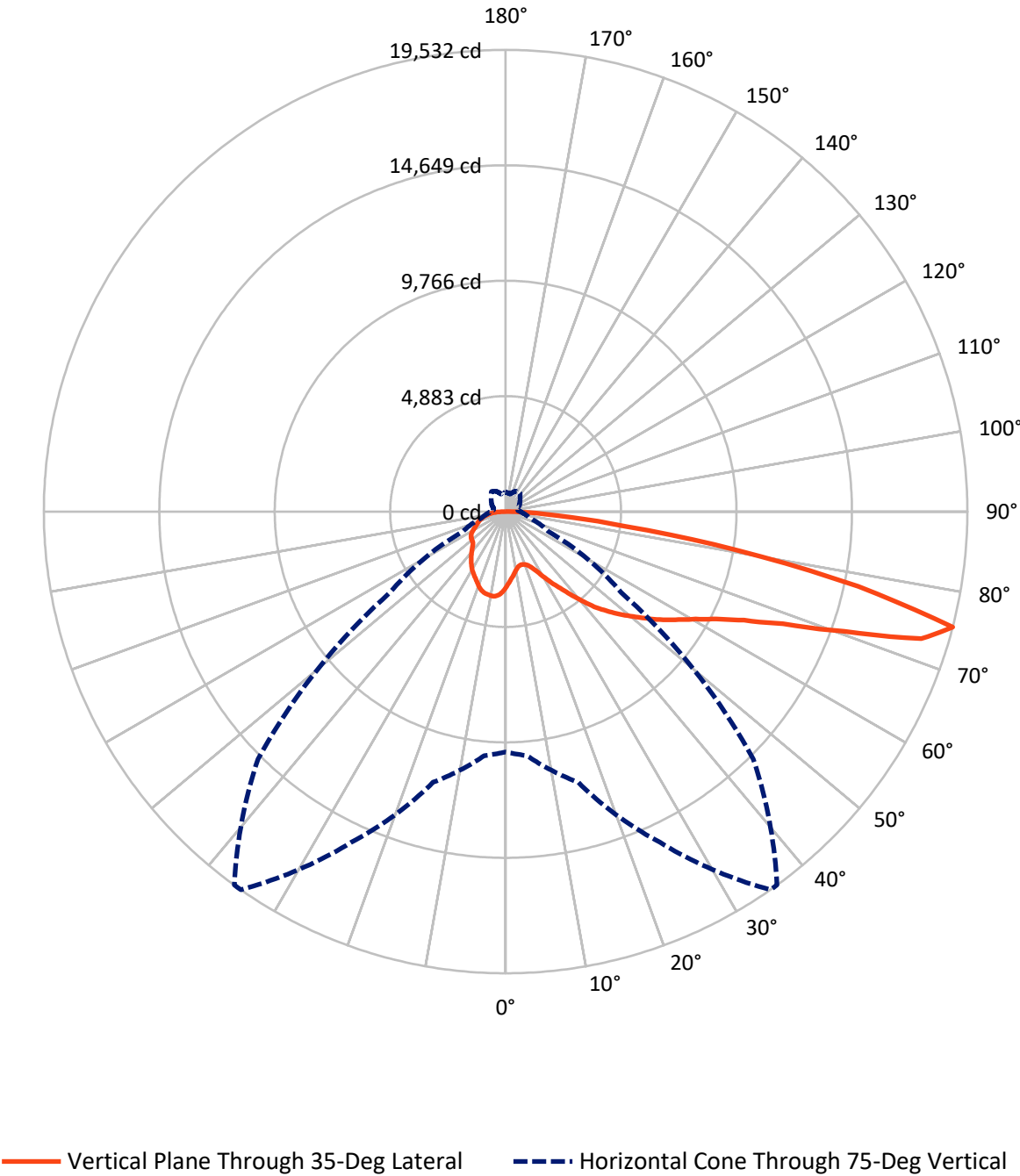


Based on 25 foot mounting height. Maximum calculated value = 5.6 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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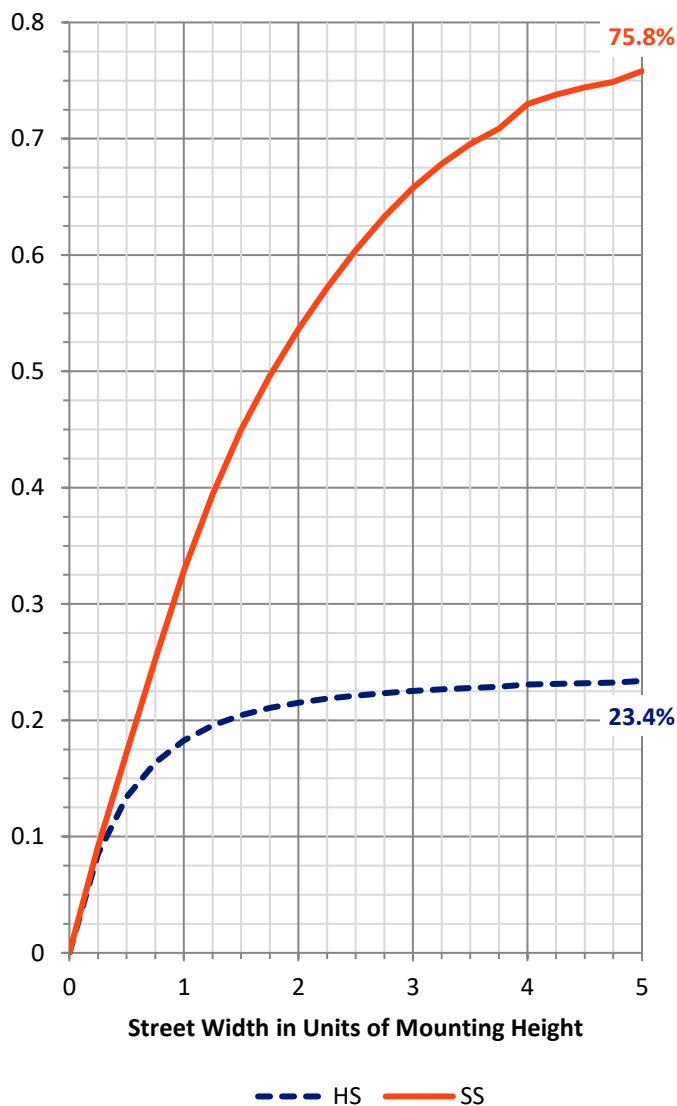
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5702.7	0.0	5702.7
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	18260.8	0.0	18260.8
	% Fixture	76.2	0.0	76.2
Total	Lumens	23963.5	0.0	23963.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	302.3	1.3
10°-20°	872.1	3.6
20°-30°	1464.5	6.1
30°-40°	2276.0	9.5
40°-50°	3378.1	14.1
50°-60°	4663.7	19.5
60°-70°	5658.2	23.6
70°-80°	4676.0	19.5
80°-90°	672.6	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°	23963.5	100.0
0°-180°	23963.5	100.0

Coefficient of Utilization



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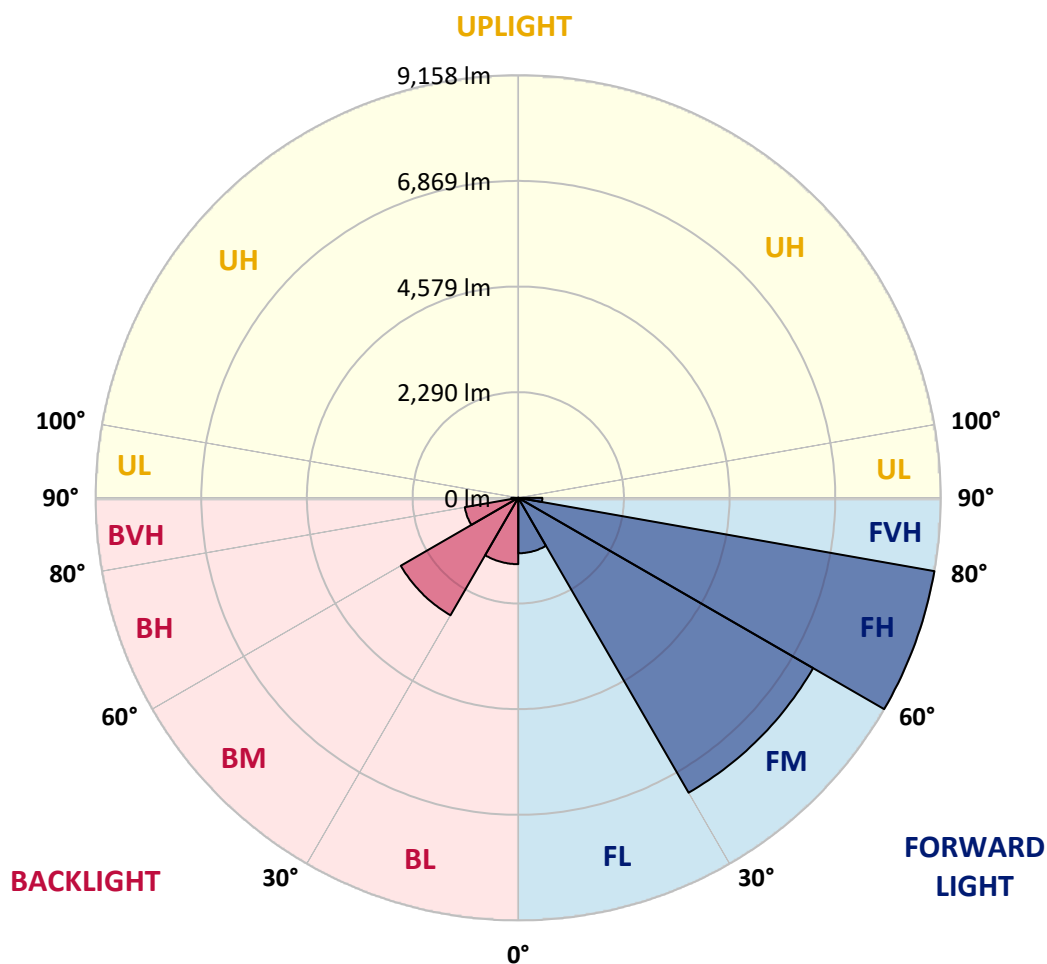
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1201.7	5.0			
FM	(30°-60°)	7379.5	30.8			
FH	(60°-80°)	9158.5	38.2			G4/12000
FVH	(80°-90°)	521.1	2.2			G4/750
BL	(0°-30°)	1437.2	6.0	B3/2500		
BM	(30°-60°)	2938.4	12.3	B3/5000		
BH	(60°-80°)	1175.7	4.9	B3/2500		G3/2500
BVH	(80°-90°)	151.4	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-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	3193.3	3193.3	3193.3	3193.3	3193.3	3193.3	3193.3	3193.3	3193.3	3193.3	3193.3
2.5°	2944.5	2962.7	2970.4	2966.6	2986.0	2983.5	3010.6	3044.4	3091.0	3136.3	3202.4
5°	2717.9	2737.3	2754.2	2769.7	2807.3	2819.0	2861.7	2926.5	3012.0	3098.7	3207.5
7.5°	2506.7	2523.5	2549.5	2578.0	2641.4	2653.1	2724.3	2825.4	2944.5	3071.5	3221.8
10°	2334.4	2351.2	2378.4	2410.8	2489.8	2504.1	2594.8	2729.5	2885.0	3045.6	3237.4
12.5°	2260.5	2265.8	2281.3	2313.7	2382.3	2391.4	2491.2	2645.3	2826.6	3026.2	3260.6
15°	2256.6	2267.1	2268.3	2285.1	2342.2	2346.0	2438.1	2590.9	2790.5	3022.3	3295.7
17.5°	2295.6	2303.3	2291.7	2302.0	2349.9	2356.5	2428.9	2565.0	2778.8	3039.1	3355.2
20°	2399.2	2405.7	2370.7	2356.5	2391.4	2396.6	2467.8	2581.9	2790.5	3074.1	3436.8
22.5°	2619.4	2623.3	2537.8	2479.5	2482.1	2484.7	2546.8	2650.5	2835.8	3137.6	3540.5
25°	2962.7	2960.1	2824.1	2711.4	2646.7	2632.4	2673.8	2761.9	2912.2	3221.8	3673.9
27.5°	3364.3	3344.9	3208.9	3040.5	2899.2	2878.5	2869.4	2907.0	3021.0	3333.2	3837.1
30°	3817.7	3799.6	3653.2	3432.9	3237.4	3203.6	3118.2	3098.7	3182.9	3484.8	4063.8
32.5°	4315.1	4303.5	4128.6	3861.8	3600.1	3561.2	3417.5	3365.6	3431.7	3714.1	4379.9
35°	4732.3	4722.0	4576.8	4302.2	3982.2	3934.3	3787.9	3729.6	3763.3	4008.2	4793.2
37.5°	5109.3	5104.1	4979.8	4763.4	4433.0	4374.7	4210.2	4190.8	4184.4	4395.5	5294.5
40°	5459.0	5446.1	5316.6	5202.6	4957.7	4904.6	4759.5	4742.7	4693.5	4872.2	5862.0
42.5°	5846.4	5812.7	5624.9	5571.8	5505.7	5461.6	5374.8	5377.5	5268.6	5409.8	6463.0
45°	6162.5	6143.0	5950.0	5919.0	5990.2	5972.1	6047.2	6066.6	5855.4	5973.3	7087.5
47.5°	6501.9	6483.7	6320.6	6298.5	6491.5	6496.7	6762.2	6768.8	6428.1	6558.9	7713.1
50°	6920.3	6894.5	6732.5	6759.7	6976.0	6995.4	7481.3	7437.2	6955.3	7153.5	8333.7
52.5°	7196.2	7211.8	7176.8	7220.8	7516.2	7534.4	8188.5	8075.9	7477.4	7740.4	8942.5
55°	7399.7	7430.7	7539.6	7640.6	8086.2	8104.4	8855.7	8683.4	7910.0	8284.5	9515.1
57.5°	7661.4	7617.3	7820.6	8017.6	8627.7	8675.7	9504.7	9269.0	8293.5	8753.4	9907.6
60°	8037.0	8005.9	8163.9	8455.4	9234.0	9310.4	10191.4	9796.2	8574.6	9125.2	9984.1
62.5°	8798.7	8721.0	8745.6	9003.4	9998.4	10099.3	10966.1	10256.2	8714.6	9270.3	9574.7
65°	9937.5	9804.0	9679.6	9858.4	11074.8	11174.6	11840.5	10617.6	8662.7	8989.1	8487.8
67.5°	11371.5	11239.3	11086.5	11254.9	12660.5	12739.5	12919.6	10820.9	8254.6	7906.1	6566.7
70°	12554.2	12505.0	12687.7	13380.8	15193.1	15195.7	14303.2	10652.5	7136.7	5605.4	3799.6
72.5°	12397.5	12367.8	13330.2	15472.9	18385.1	18316.4	15612.8	9377.8	4807.5	2528.8	1423.7
75°	10170.6	10363.7	11854.7	15435.4	19531.6	19522.5	14810.9	5961.7	1988.5	1048.1	735.8
77.5°	5453.8	5759.6	7696.3	11396.2	15247.5	15476.8	10412.9	2085.7	853.7	671.1	509.1
80°	1778.7	2045.5	3067.6	5802.3	9907.6	9864.9	4462.8	818.8	584.2	475.4	352.4
82.5°	755.2	786.4	1370.6	2739.9	5084.6	5005.6	1421.2	470.3	410.6	325.1	217.6
85°	295.4	330.4	605.0	1267.0	2202.3	2154.3	513.0	233.2	263.0	212.5	129.6
87.5°	97.2	117.9	216.4	434.0	685.3	660.7	125.7	80.4	114.0	97.2	46.6
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°	3193.3	3193.3	3193.3	3193.3	3193.3	3193.3	3193.3	3193.3	3193.3	3193.3	3193.3
2.5°	3220.5	3241.3	3265.9	3302.1	3333.2	3359.1	3386.3	3403.2	3409.7	3429.0	3427.8
5°	3243.8	3289.1	3350.0	3409.7	3467.9	3502.9	3534.0	3549.6	3563.8	3574.2	3576.7
7.5°	3282.7	3341.0	3436.8	3514.5	3563.8	3592.3	3613.0	3607.8	3613.0	3615.6	3619.5
10°	3316.4	3398.0	3512.0	3585.9	3623.4	3624.7	3619.5	3601.3	3592.3	3593.5	3596.2
12.5°	3356.6	3447.2	3570.3	3632.5	3642.8	3614.4	3592.3	3561.2	3549.6	3544.3	3541.8
15°	3410.9	3514.5	3633.7	3657.1	3631.2	3594.9	3557.4	3506.8	3480.9	3460.2	3466.7
17.5°	3477.0	3591.0	3682.9	3666.1	3610.5	3550.8	3489.9	3413.6	3360.4	3338.4	3339.7
20°	3568.9	3671.3	3720.5	3646.7	3562.5	3471.8	3368.2	3274.9	3225.7	3203.6	3201.1
22.5°	3680.4	3778.9	3756.8	3613.0	3493.8	3348.8	3219.2	3150.5	3125.9	3110.4	3113.0
25°	3813.8	3898.0	3782.8	3563.8	3381.2	3185.5	3085.8	3063.7	3052.0	3040.5	3040.5
27.5°	3987.5	4032.8	3802.1	3491.3	3205.0	3012.0	2975.7	2979.6	2975.7	2956.2	2960.1
30°	4216.7	4207.6	3820.3	3373.4	3002.8	2855.1	2857.8	2874.6	2877.2	2864.3	2870.7
32.5°	4518.5	4426.6	3829.4	3220.5	2809.8	2717.9	2720.5	2738.6	2751.5	2729.5	2739.9
35°	4883.8	4681.8	3815.2	3028.8	2660.9	2587.0	2567.6	2572.8	2576.6	2555.9	2570.2
37.5°	5310.1	4968.1	3751.6	2816.3	2537.8	2458.8	2417.4	2382.3	2361.6	2342.2	2355.1
40°	5777.7	5280.3	3635.1	2609.0	2400.4	2322.8	2260.5	2194.5	2124.5	2098.6	2110.3
42.5°	6267.4	5601.5	3493.8	2410.8	2242.4	2178.9	2112.9	2017.0	1912.1	1858.9	1865.5
45°	6775.2	5930.5	3355.2	2215.2	2080.5	2053.3	1976.8	1861.6	1747.5	1680.2	1675.1
47.5°	7272.7	6241.5	3151.9	2018.3	1928.9	1958.8	1899.1	1792.9	1665.9	1559.7	1548.1
50°	7748.1	6532.9	2819.0	1818.9	1805.8	1930.2	1873.2	1720.4	1575.3	1439.2	1427.6
52.5°	8219.7	6768.8	2392.7	1637.4	1739.8	1922.5	1839.6	1671.2	1493.6	1351.2	1335.6
55°	8619.9	6890.6	1982.0	1482.0	1643.9	1856.4	1799.4	1612.8	1378.3	1226.8	1213.8
57.5°	8847.9	6792.1	1640.0	1329.1	1511.8	1747.5	1730.7	1488.5	1241.1	1124.4	1108.9
60°	8749.5	6393.0	1360.3	1195.7	1386.1	1629.6	1611.5	1365.4	1136.1	1026.0	1010.4
62.5°	8206.7	5632.7	1138.7	1079.1	1272.1	1509.2	1492.4	1270.8	1055.8	949.6	932.7
65°	7113.3	4582.1	966.4	982.0	1156.8	1364.1	1388.8	1191.8	992.3	888.7	871.9
67.5°	5425.3	3319.0	831.7	897.8	1044.2	1221.6	1292.8	1134.8	939.2	840.7	825.2
70°	3092.2	1884.9	717.7	816.1	944.4	1089.5	1219.0	1089.5	882.2	800.6	790.3
72.5°	1172.4	865.4	620.5	734.5	848.5	978.1	1137.4	1018.2	816.1	755.2	744.9
75°	625.7	527.3	522.0	638.7	738.4	869.2	1035.0	948.2	766.9	798.0	823.9
77.5°	426.2	373.1	436.5	546.6	618.0	748.8	926.3	842.0	664.6	661.9	610.2
80°	295.4	264.2	355.0	440.4	478.1	629.6	808.3	722.8	541.5	505.2	483.2
82.5°	177.4	172.3	265.6	329.0	338.1	485.7	669.7	606.3	443.0	386.0	388.7
85°	97.2	102.3	169.7	193.0	196.9	339.4	524.7	468.9	340.7	286.3	288.8
87.5°	27.2	35.0	62.2	76.5	94.6	176.2	312.2	278.5	171.0	119.2	119.2
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)