

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: P970501

Luminaire Tested: **NAV-SB6B-827-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970501
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6B-827-U-T4W
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30375.9 lumens
Efficiency: N/A
Efficacy: 137.8 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



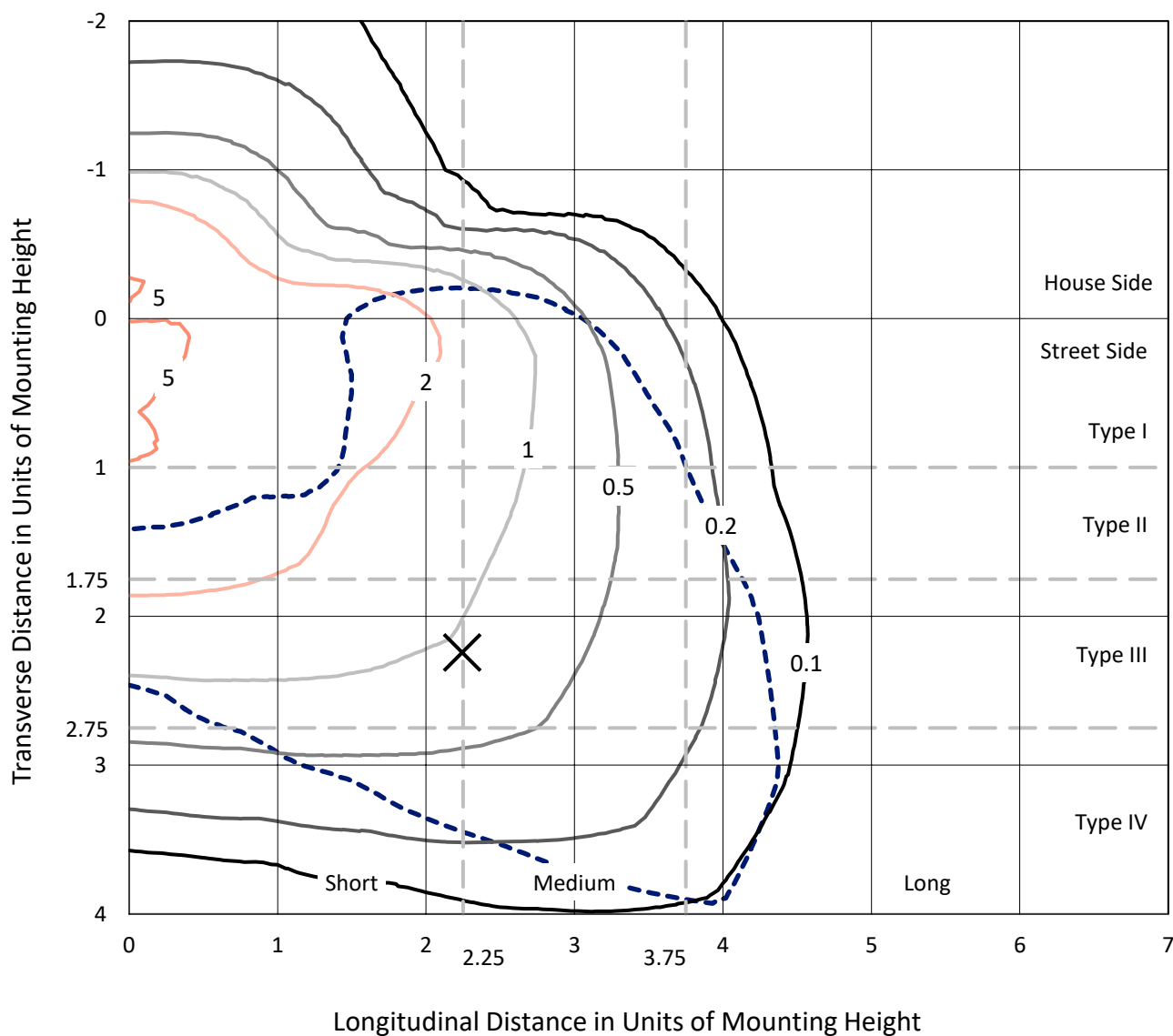
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

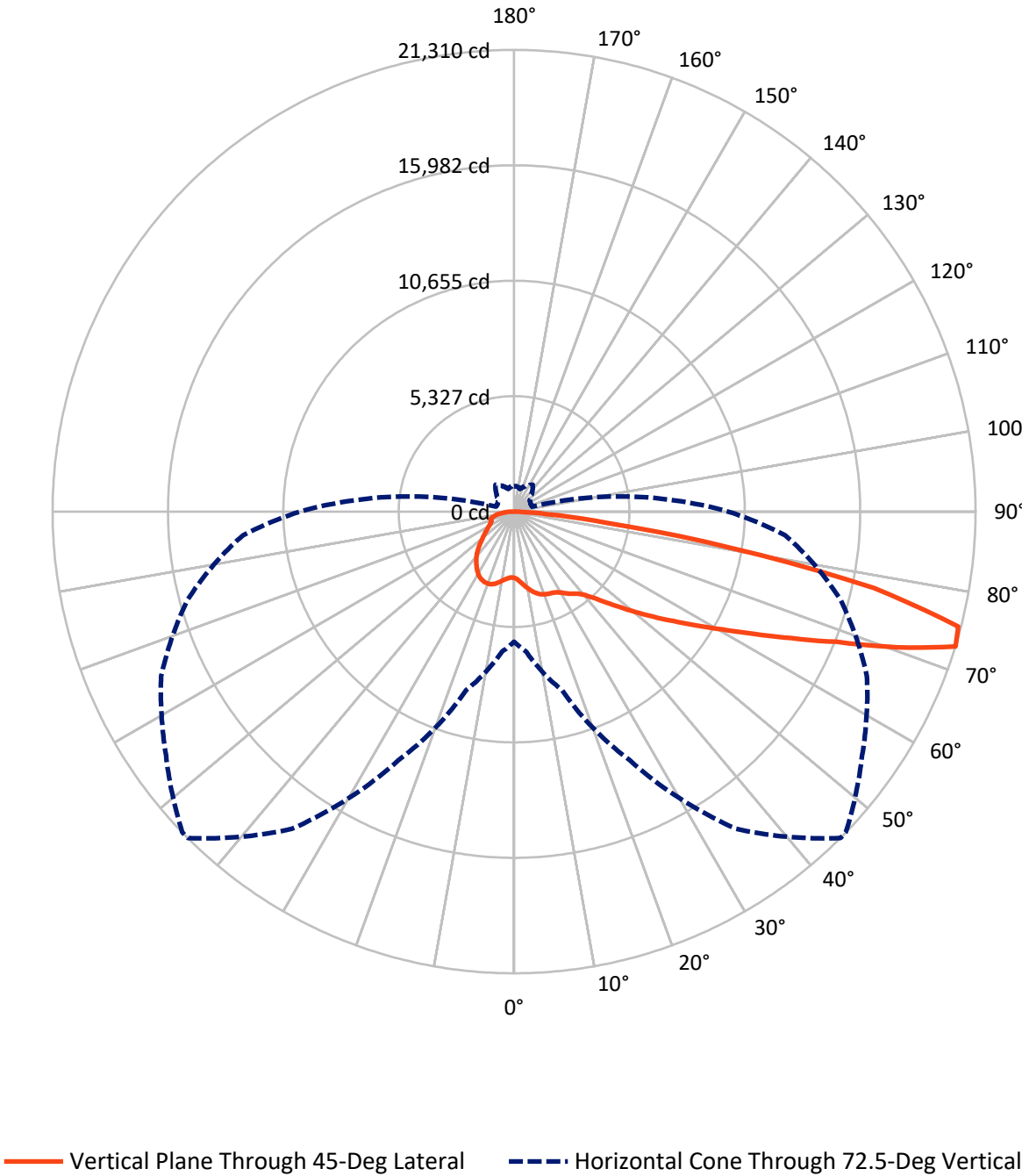


Based on 25 foot mounting height. Maximum calculated value = 6.1 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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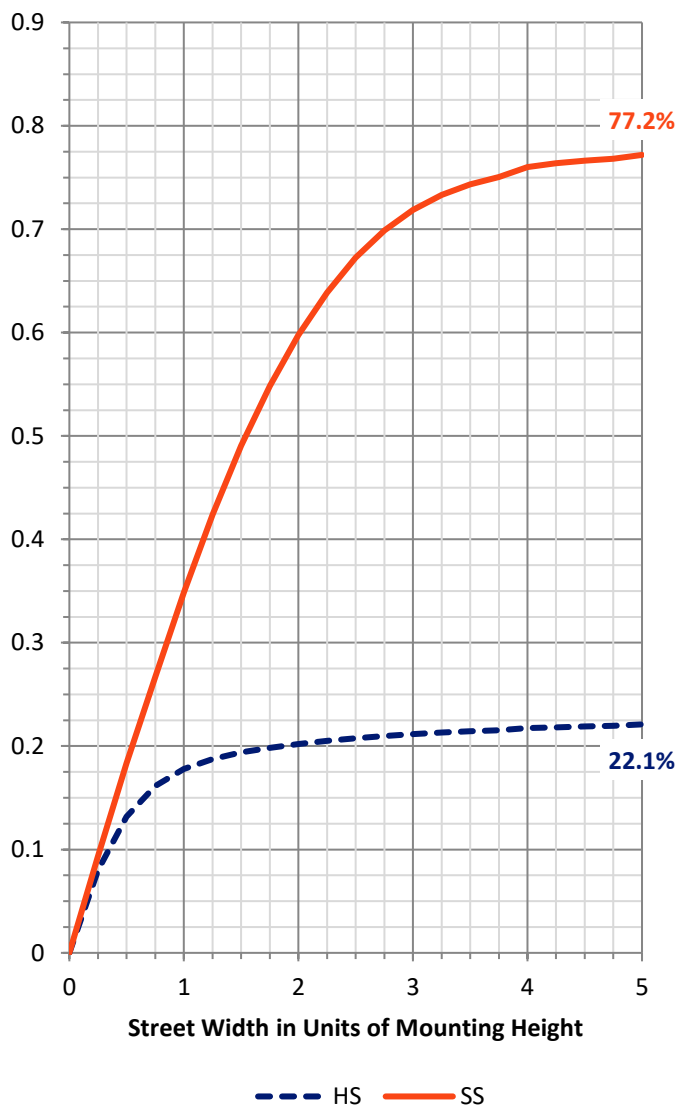
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6866.9	0.0	6866.9
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	23508.9	0.0	23508.9
	% Fixture	77.4	0.0	77.4
Total	Lumens	30375.9	0.0	30375.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	311.9	1.0
10°-20°	1039.9	3.4
20°-30°	1808.9	6.0
30°-40°	2593.2	8.5
40°-50°	3651.4	12.0
50°-60°	5592.8	18.4
60°-70°	8102.0	26.7
70°-80°	6470.0	21.3
80°-90°	805.8	2.7
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°	30375.9	100.0
0°-180°	30375.9	100.0

Coefficient of Utilization



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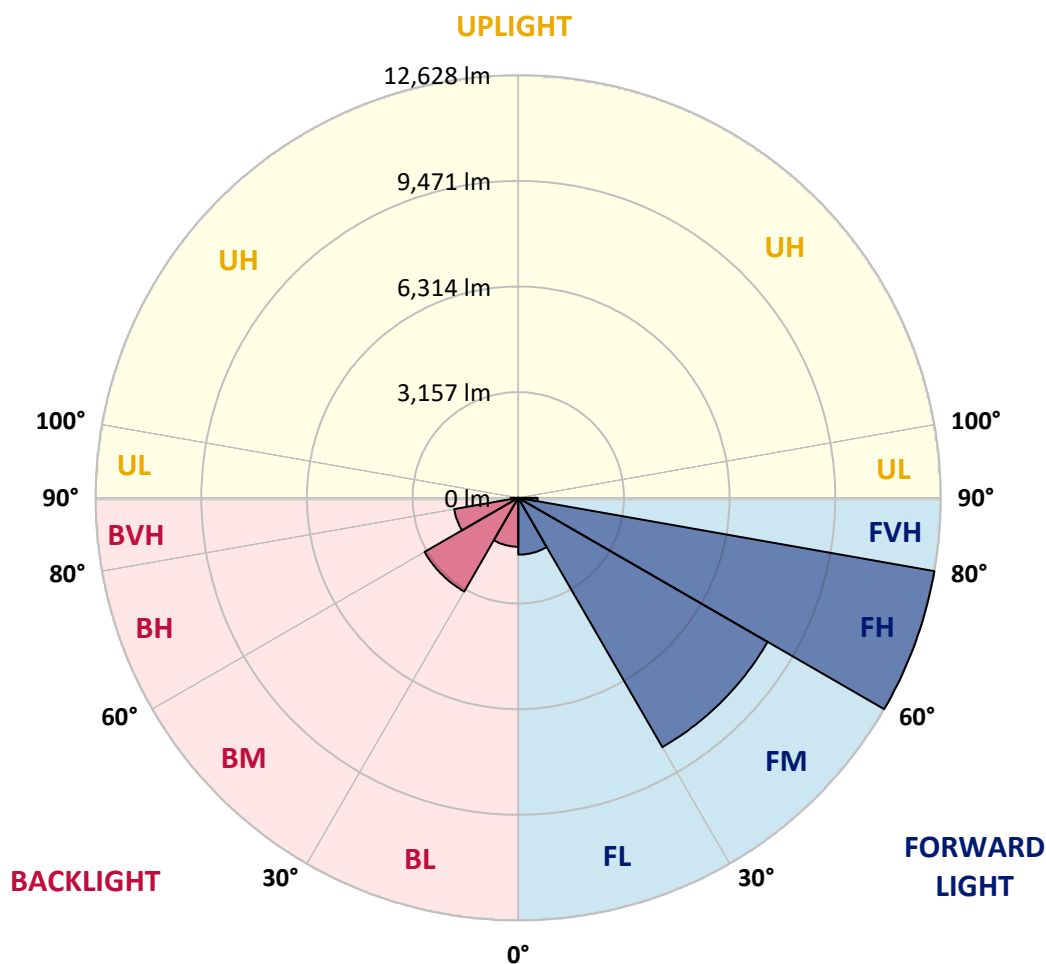
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1698.7	5.6			
FM	(30°-60°)	8604.0	28.3			
FH	(60°-80°)	12628.1	41.6			G5
FVH	(80°-90°)	578.1	1.9			G4/750
BL	(0°-30°)	1462.0	4.8	B3/2500		
BM	(30°-60°)	3233.4	10.6	B3/5000		
BH	(60°-80°)	1943.8	6.4	B3/2500		G3/2500
BVH	(80°-90°)	227.7	0.7			G3/500
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°	45°	46°	55°	65°	75°	85°
0°	3064.3	3064.3	3064.3	3064.3	3064.3	3064.3	3064.3	3064.3	3064.3	3064.3	3064.3
2.5°	3184.4	3205.2	3185.9	3168.4	3160.4	3139.6	3137.9	3125.1	3117.1	3094.8	3088.3
5°	3406.8	3434.0	3402.0	3366.8	3334.7	3283.6	3277.1	3240.3	3198.7	3150.7	3123.6
7.5°	3658.0	3682.0	3645.2	3592.4	3536.4	3451.6	3449.9	3382.8	3317.2	3235.5	3189.2
10°	3877.3	3909.2	3859.6	3787.6	3717.2	3621.2	3609.9	3533.2	3449.9	3344.4	3274.0
12.5°	4070.9	4093.2	4045.3	3957.2	3875.6	3779.6	3765.2	3680.4	3587.6	3467.6	3378.0
15°	4224.4	4253.2	4189.3	4094.9	4008.5	3914.1	3901.3	3824.4	3731.6	3605.2	3490.0
17.5°	4325.3	4349.3	4283.7	4178.1	4094.9	4016.5	4006.8	3942.9	3861.2	3733.3	3609.9
20°	4363.6	4389.3	4320.5	4213.3	4136.5	4075.6	4070.9	4024.5	3968.4	3851.6	3726.8
22.5°	4402.1	4426.1	4336.5	4224.4	4157.3	4118.9	4117.2	4086.9	4064.4	3968.4	3846.8
25°	4557.3	4563.7	4443.7	4282.0	4186.1	4152.5	4150.8	4149.3	4158.8	4083.6	3976.4
27.5°	4691.7	4690.1	4587.7	4435.7	4286.9	4216.4	4214.9	4230.9	4261.2	4198.8	4110.9
30°	4888.5	4870.9	4749.3	4590.9	4454.9	4346.1	4336.5	4322.1	4346.1	4296.5	4245.2
32.5°	5306.2	5250.2	5053.4	4771.7	4594.2	4510.9	4498.1	4408.5	4418.1	4387.7	4362.1
35°	5904.6	5831.0	5568.6	5114.1	4767.0	4648.5	4642.1	4528.4	4509.3	4482.1	4491.7
37.5°	6616.7	6525.6	6219.9	5610.2	5064.5	4808.5	4798.9	4696.5	4618.1	4589.3	4643.7
40°	7332.0	7216.8	6964.0	6215.1	5503.0	5075.8	5045.4	4890.2	4800.5	4752.5	4867.7
42.5°	8026.5	7930.4	7714.5	6893.5	6043.8	5466.2	5399.0	5133.4	5066.2	5021.4	5229.3
45°	8641.0	8554.5	8396.1	7618.4	6677.6	5997.5	5931.9	5498.2	5477.4	5477.4	5778.2
47.5°	9140.2	9121.0	8953.0	8357.7	7424.8	6602.3	6488.7	6005.5	6061.4	6147.8	6557.5
50°	9693.8	9641.0	9461.9	9085.8	8303.3	7295.2	7202.4	6628.0	6837.6	7074.3	7684.0
52.5°	10202.7	10231.6	10031.5	9844.3	9295.4	8068.1	7904.9	7362.4	7815.2	8207.3	9004.2
55°	10726.0	10727.5	10671.6	10646.0	10335.5	8922.6	8743.4	8245.7	8965.8	9452.2	10543.6
57.5°	11217.2	11220.5	11303.6	11529.3	11542.0	9908.3	9705.1	9330.6	10244.4	10740.4	12130.9
60°	11655.7	11678.0	11905.3	12433.4	12603.0	11038.0	10845.9	10612.3	11566.1	12065.3	13799.9
62.5°	11802.9	11884.5	12390.2	13140.6	13651.1	12423.7	12234.9	12095.7	12955.0	13419.1	15195.2
65°	11553.3	11740.5	12718.2	13724.6	14729.6	14070.4	13883.1	13731.1	14398.4	14835.2	16341.0
67.5°	10940.4	11182.0	12699.0	14337.6	16038.6	16051.4	15876.9	15520.1	15945.7	16113.7	16713.9
70°	9325.9	9687.5	11580.4	14566.4	17541.1	18760.5	18592.5	17674.0	17489.9	16677.1	15664.2
72.5°	6008.7	6495.1	8527.3	12682.9	17875.6	21309.5	21299.9	19618.2	17978.0	15582.5	12563.0
75°	2192.3	2489.8	3962.0	7960.9	15004.9	21179.9	21242.3	19285.3	16411.4	12036.5	7826.5
77.5°	798.5	873.7	1292.9	3059.5	9228.2	16993.9	17123.4	15417.6	11681.3	6040.6	3101.1
80°	419.2	460.8	662.5	1187.4	3954.0	10092.3	10295.5	9162.6	5490.2	1819.4	929.7
82.5°	232.1	251.2	371.3	644.8	1781.0	4315.7	4437.3	3619.6	1931.4	771.3	384.1
85°	124.8	132.8	174.5	352.1	870.5	1496.2	1529.8	1081.7	769.7	452.8	185.6
87.5°	36.8	44.8	57.6	112.0	340.8	336.0	344.0	214.4	304.0	228.8	60.8
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°	3064.3	3064.3	3064.3	3064.3	3064.3	3064.3	3064.3	3064.3	3064.3	3064.3	3064.3
2.5°	3078.7	3074.0	3056.3	3048.4	3038.7	3037.2	3045.2	3046.7	3048.4	3049.9	3056.3
5°	3107.5	3091.5	3075.5	3066.0	3069.2	3070.7	3086.8	3098.0	3106.0	3112.3	3115.6
7.5°	3163.6	3150.7	3123.6	3121.9	3126.8	3141.1	3161.9	3187.5	3202.0	3213.2	3216.3
10°	3246.8	3222.7	3190.7	3195.5	3205.2	3226.0	3269.1	3289.9	3313.9	3334.7	3329.9
12.5°	3331.6	3310.7	3274.0	3277.1	3293.1	3329.9	3371.5	3397.2	3413.1	3429.1	3435.6
15°	3442.0	3405.2	3365.2	3365.2	3394.0	3434.0	3453.2	3473.9	3483.6	3501.2	3507.6
17.5°	3555.6	3507.6	3454.8	3451.6	3486.7	3506.0	3517.2	3520.4	3523.5	3542.8	3549.2
20°	3669.2	3616.4	3541.2	3534.8	3542.8	3539.6	3538.0	3534.8	3539.6	3563.6	3573.2
22.5°	3781.2	3720.4	3616.4	3587.6	3565.2	3534.8	3533.2	3531.5	3534.8	3558.8	3574.8
25°	3912.4	3838.8	3699.6	3613.2	3538.0	3496.4	3501.2	3502.7	3506.0	3525.2	3550.8
27.5°	4054.8	3973.2	3776.4	3605.2	3469.2	3440.4	3432.4	3437.1	3448.4	3478.7	3509.2
30°	4197.3	4101.2	3846.8	3573.2	3382.8	3342.7	3317.2	3328.4	3363.5	3394.0	3427.6
32.5°	4326.8	4230.9	3902.8	3502.7	3272.3	3210.0	3176.4	3190.7	3226.0	3237.2	3277.1
35°	4478.8	4370.1	3926.9	3390.8	3152.4	3056.3	3011.6	2990.7	3008.4	2997.1	3032.4
37.5°	4648.5	4534.9	3923.6	3243.5	3011.6	2901.2	2838.7	2760.3	2723.5	2685.1	2709.1
40°	4899.7	4736.5	3885.3	3066.0	2837.1	2736.3	2624.3	2491.5	2408.2	2333.1	2337.8
42.5°	5242.2	5016.6	3814.8	2870.7	2640.3	2545.9	2393.9	2238.6	2107.4	1982.7	1971.4
45°	5752.6	5383.0	3726.8	2662.6	2427.5	2334.6	2169.8	1995.4	1846.6	1686.5	1667.4
47.5°	6488.7	5875.8	3643.6	2425.9	2203.4	2118.7	1969.8	1808.2	1632.2	1476.9	1459.4
50°	7500.0	6583.2	3566.8	2195.4	1982.7	1918.6	1800.2	1635.4	1457.8	1332.9	1324.9
52.5°	8786.6	7544.8	3534.8	1973.0	1776.2	1752.2	1657.7	1504.2	1336.2	1230.5	1222.5
55°	10263.5	8695.4	3534.8	1760.2	1595.4	1603.4	1537.8	1395.3	1249.8	1155.3	1145.7
57.5°	11770.9	9860.3	3470.8	1563.3	1441.8	1475.4	1433.8	1308.9	1177.7	1080.1	1064.2
60°	13159.9	10836.4	3211.5	1384.2	1305.7	1358.5	1331.4	1224.2	1064.2	982.5	969.8
62.5°	14227.1	11386.8	2712.3	1241.7	1193.7	1254.5	1240.1	1112.1	1043.3	1009.7	998.6
65°	14761.6	11297.2	2073.8	1115.3	1099.3	1193.7	1163.4	1158.6	1104.1	1065.7	1052.9
67.5°	14433.5	10525.9	1504.2	1022.5	1044.9	1137.8	1254.5	1273.8	1172.9	1097.7	1085.0
70°	12995.1	9130.6	1120.1	934.5	976.1	1139.3	1430.6	1332.9	1150.6	1062.5	1048.2
72.5°	9885.9	6808.8	868.9	841.7	886.5	1147.3	1509.0	1305.7	1086.5	1174.5	1164.9
75°	5653.4	3738.0	697.7	728.1	774.5	1072.1	1468.9	1235.3	1036.9	1078.5	1078.5
77.5°	2155.5	1436.9	576.0	616.0	622.5	936.1	1405.0	1230.5	987.3	963.3	878.5
80°	747.3	561.7	476.8	489.6	481.6	832.1	1347.4	1070.5	808.1	723.2	699.3
82.5°	305.7	280.0	377.6	361.6	342.5	646.5	1088.1	875.2	660.9	584.0	577.7
85°	132.8	177.6	249.6	219.2	198.4	448.0	872.1	740.9	558.4	481.6	480.0
87.5°	27.2	67.2	105.6	99.2	102.4	299.2	619.3	526.4	395.2	296.0	232.1
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)