

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: P968453

Luminaire Tested: **NAV-SB5B-835-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968453
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-SB5B-835-U-T4FT
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

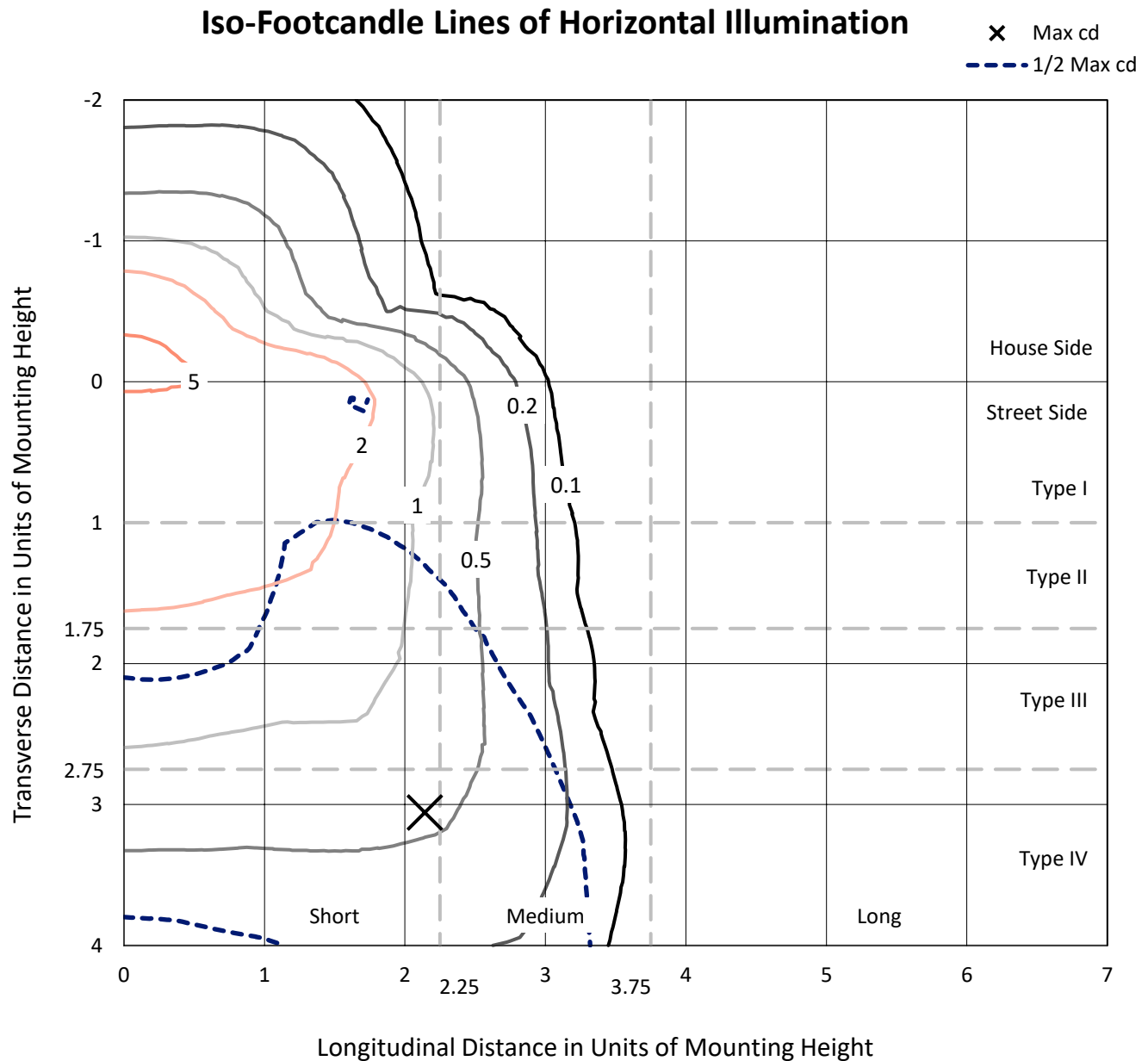
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26728.9 lumens
Efficiency: N/A
Efficacy: 146.3 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): 182.7
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



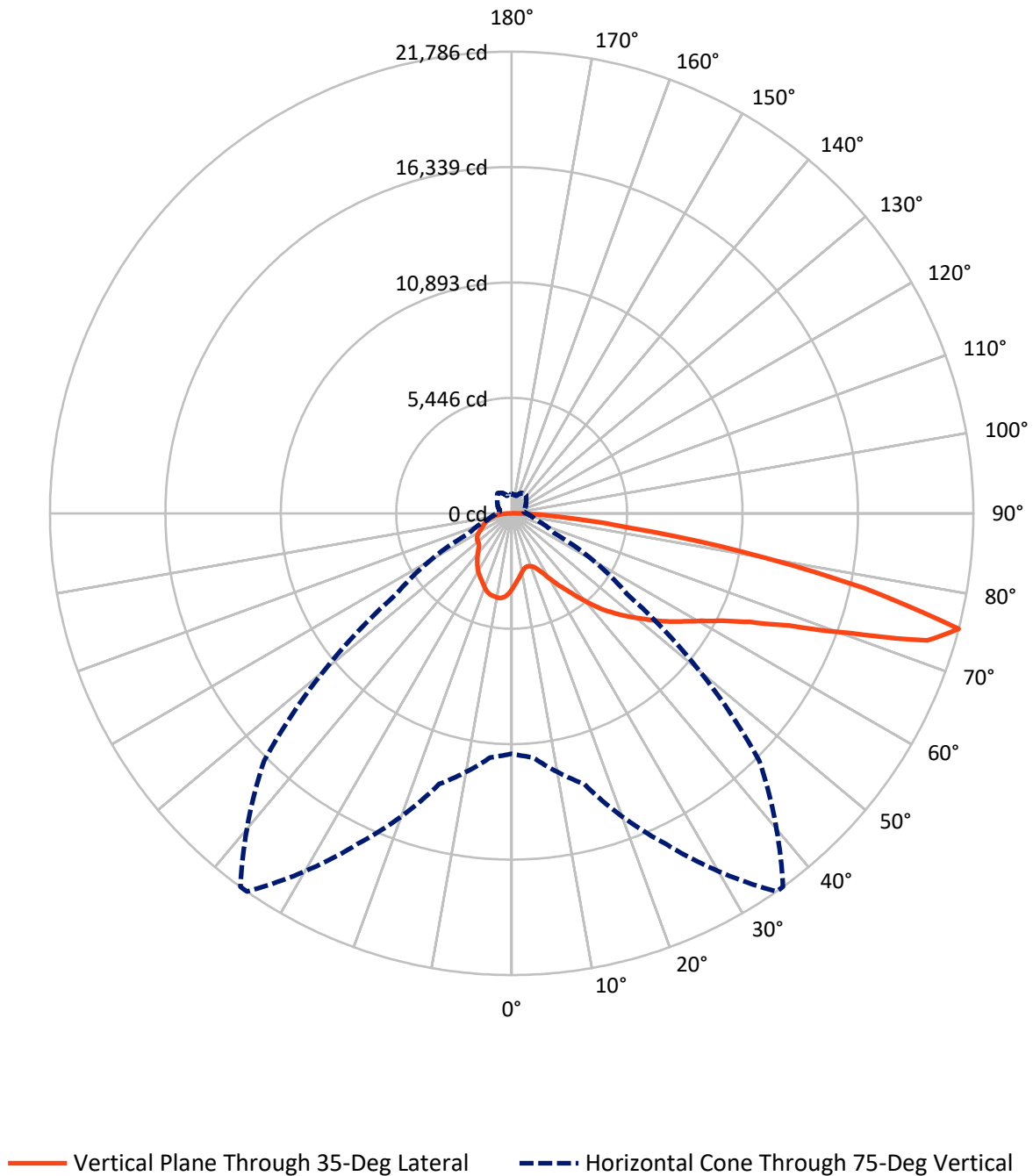
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Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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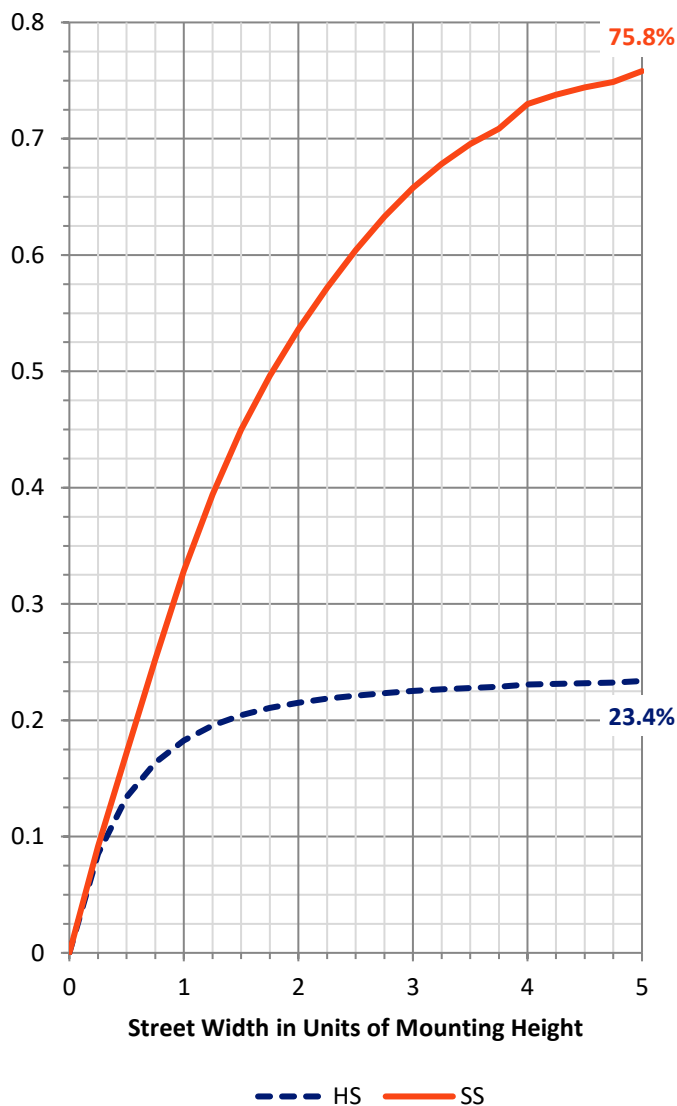
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6360.8	0.0	6360.8
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	20368.1	0.0	20368.1
	% Fixture	76.2	0.0	76.2
Total	Lumens	26728.9	0.0	26728.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	337.2	1.3
10°-20°	972.7	3.6
20°-30°	1633.5	6.1
30°-40°	2538.6	9.5
40°-50°	3768.0	14.1
50°-60°	5201.9	19.5
60°-70°	6311.1	23.6
70°-80°	5215.7	19.5
80°-90°	750.2	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°	26728.9	100.0
0°-180°	26728.9	100.0

Coefficient of Utilization



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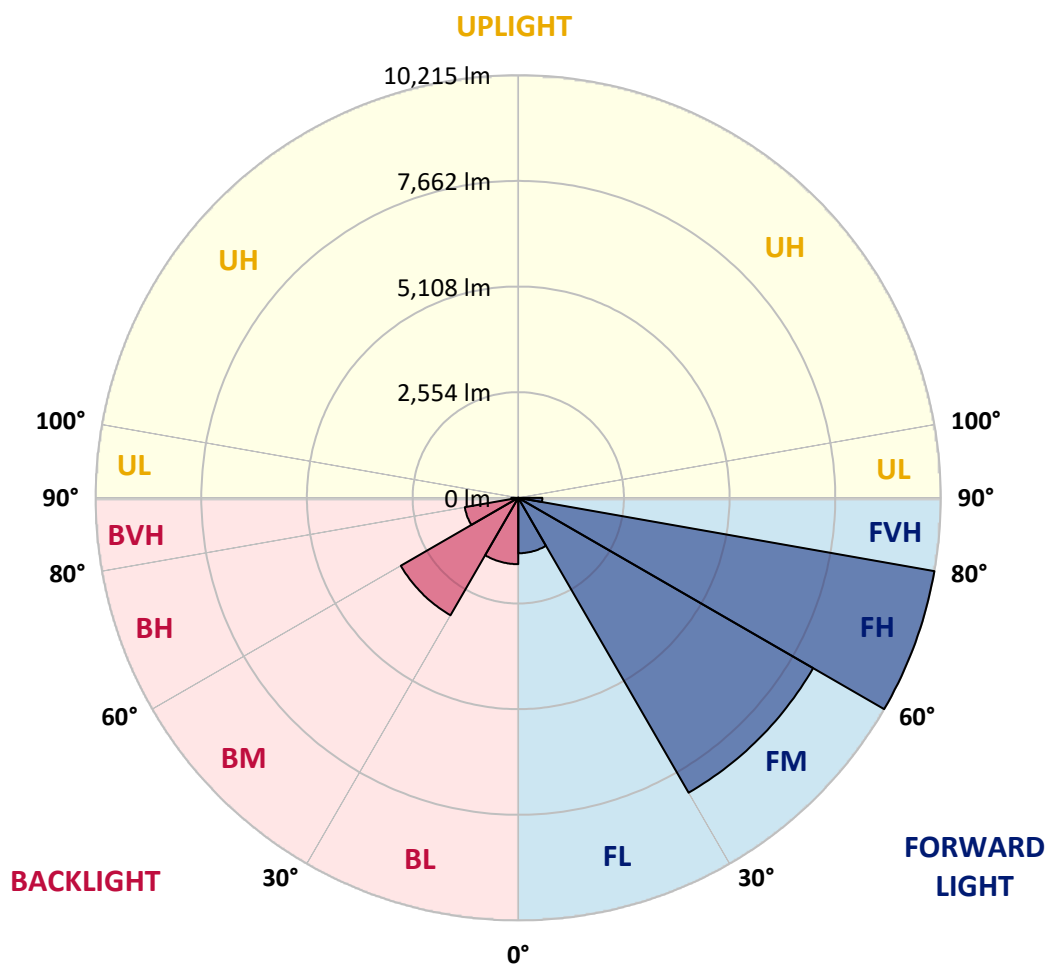
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1340.4	5.0			
FM	(30°-60°)	8231.1	30.8			
FH	(60°-80°)	10215.4	38.2			G4/12000
FVH	(80°-90°)	581.2	2.2			G4/750
BL	(0°-30°)	1603.0	6.0	B3/2500		
BM	(30°-60°)	3277.5	12.3	B3/5000		
BH	(60°-80°)	1311.4	4.9	B3/2500		G3/2500
BVH	(80°-90°)	168.9	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°	3561.8	3561.8	3561.8	3561.8	3561.8	3561.8	3561.8	3561.8	3561.8	3561.8	3561.8
2.5°	3284.4	3304.6	3313.3	3308.9	3330.6	3327.8	3358.1	3395.6	3447.7	3498.2	3571.9
5°	3031.5	3053.2	3071.9	3089.4	3131.2	3144.2	3192.0	3264.1	3359.5	3456.3	3577.7
7.5°	2796.0	2814.8	2843.7	2875.4	2946.3	2959.3	3038.7	3151.5	3284.4	3426.0	3593.6
10°	2603.8	2622.6	2652.9	2689.1	2777.2	2793.1	2894.3	3044.6	3217.9	3397.1	3611.0
12.5°	2521.4	2527.2	2544.6	2580.6	2657.3	2667.4	2778.7	2950.6	3152.9	3375.4	3636.9
15°	2517.1	2528.7	2530.1	2548.9	2612.5	2616.8	2719.4	2889.9	3112.4	3371.1	3676.0
17.5°	2560.4	2569.2	2556.1	2567.7	2621.1	2628.4	2709.3	2861.0	3099.4	3389.9	3742.5
20°	2676.1	2683.2	2644.3	2628.4	2667.4	2673.2	2752.6	2879.8	3112.4	3428.8	3833.5
22.5°	2921.7	2926.1	2830.6	2765.7	2768.5	2771.4	2840.8	2956.4	3163.0	3499.7	3949.0
25°	3304.6	3301.7	3150.0	3024.3	2952.0	2936.1	2982.3	3080.6	3248.2	3593.6	4097.8
27.5°	3752.5	3730.9	3579.2	3391.3	3233.8	3210.7	3200.6	3242.5	3369.6	3717.9	4280.0
30°	4258.3	4238.1	4074.8	3829.1	3611.0	3573.4	3478.0	3456.3	3550.3	3886.9	4532.9
32.5°	4813.1	4800.2	4605.0	4307.4	4015.5	3972.2	3811.8	3754.0	3827.7	4142.6	4885.4
35°	5278.4	5266.9	5105.0	4798.6	4441.8	4388.3	4225.0	4160.1	4197.6	4470.6	5346.3
37.5°	5698.9	5693.2	5554.4	5313.1	4944.6	4879.6	4696.1	4674.4	4667.2	4902.7	5905.5
40°	6089.0	6074.6	5930.1	5802.9	5529.9	5470.6	5308.8	5290.0	5235.1	5434.4	6538.4
42.5°	6521.0	6483.5	6274.0	6214.8	6141.1	6091.9	5995.1	5998.0	5876.6	6034.2	7208.8
45°	6873.6	6851.9	6636.7	6602.0	6681.5	6661.3	6745.0	6766.7	6531.2	6662.7	7905.3
47.5°	7252.2	7232.0	7050.0	7025.4	7240.7	7246.4	7542.7	7549.8	7169.9	7315.8	8603.2
50°	7719.0	7690.1	7509.5	7539.8	7781.1	7802.7	8344.6	8295.4	7757.9	7979.0	9295.4
52.5°	8026.7	8044.1	8005.0	8054.1	8383.6	8403.9	9133.6	9007.8	8340.2	8633.6	9974.5
55°	8253.6	8288.3	8409.6	8522.4	9019.4	9039.6	9877.7	9685.5	8822.9	9240.5	10613.2
57.5°	8545.4	8496.3	8723.2	8942.8	9623.4	9676.8	10601.6	10338.7	9250.6	9763.5	11051.0
60°	8964.4	8929.8	9106.1	9431.2	10299.6	10384.9	11367.5	10926.7	9564.2	10178.2	11136.2
62.5°	9814.2	9727.5	9754.9	10042.4	11152.1	11264.9	12231.5	11439.7	9720.2	10340.1	10679.7
65°	11084.2	10935.4	10796.7	10996.1	12352.9	12464.2	13206.9	11842.8	9662.4	10026.6	9467.3
67.5°	12683.8	12536.4	12365.9	12553.8	14121.5	14209.7	14410.5	12069.7	9207.3	8818.6	7324.4
70°	14003.0	13948.1	14151.9	14924.9	16946.4	16949.3	15953.7	11881.9	7960.3	6252.3	4238.1
72.5°	13828.2	13795.0	14868.5	17258.5	20506.8	20430.2	17414.5	10460.0	5362.2	2820.6	1588.0
75°	11344.3	11559.6	13222.8	17216.6	21785.6	21775.4	16520.1	6649.7	2218.0	1169.0	820.7
77.5°	6083.3	6424.3	8584.5	12711.2	17007.1	17262.8	11614.6	2326.3	952.2	748.5	567.8
80°	1983.9	2281.5	3421.7	6472.0	11051.0	11003.3	4977.9	913.2	651.7	530.3	393.0
82.5°	842.4	877.1	1528.8	3056.0	5671.4	5583.3	1585.2	524.5	458.1	362.6	242.7
85°	329.4	368.5	674.8	1413.2	2456.4	2402.9	572.2	260.0	293.4	237.0	144.5
87.5°	108.3	131.5	241.3	484.1	764.3	737.0	140.1	89.6	127.2	108.3	52.0
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°	3561.8	3561.8	3561.8	3561.8	3561.8	3561.8	3561.8	3561.8	3561.8	3561.8	3561.8
2.5°	3592.1	3615.3	3642.7	3683.2	3717.9	3746.8	3777.1	3795.9	3803.2	3824.8	3823.4
5°	3618.1	3668.8	3736.6	3803.2	3868.1	3907.2	3941.8	3959.2	3975.1	3986.6	3989.5
7.5°	3661.5	3726.5	3833.5	3920.1	3975.1	4006.8	4030.0	4024.2	4030.0	4032.9	4037.2
10°	3699.1	3790.1	3917.2	3999.7	4041.6	4043.0	4037.2	4017.0	4006.8	4008.3	4011.2
12.5°	3743.9	3845.0	3982.3	4051.6	4063.2	4031.4	4006.8	3972.2	3959.2	3953.4	3950.5
15°	3804.6	3920.1	4053.1	4079.1	4050.2	4009.7	3967.9	3911.5	3882.6	3859.4	3866.7
17.5°	3878.3	4005.4	4108.0	4089.2	4027.1	3960.6	3892.7	3807.5	3748.2	3723.6	3725.1
20°	3980.9	4095.0	4149.9	4067.5	3973.6	3872.4	3756.8	3652.8	3598.0	3573.4	3570.5
22.5°	4105.1	4214.9	4190.4	4030.0	3897.0	3735.2	3590.7	3514.1	3486.6	3469.3	3472.2
25°	4254.0	4347.8	4219.3	3975.1	3771.3	3553.2	3441.8	3417.4	3404.3	3391.3	3391.3
27.5°	4447.6	4498.1	4240.9	3894.2	3574.8	3359.5	3319.1	3323.4	3319.1	3297.4	3301.7
30°	4703.3	4693.2	4261.1	3762.7	3349.4	3184.7	3187.5	3206.3	3209.3	3194.8	3202.0
32.5°	5040.0	4937.4	4271.3	3592.1	3134.1	3031.5	3034.4	3054.6	3069.1	3044.6	3056.0
35°	5447.5	5222.1	4255.4	3378.3	2967.9	2885.6	2863.8	2869.7	2874.0	2850.9	2866.8
37.5°	5922.9	5541.4	4184.6	3141.3	2830.6	2742.5	2696.3	2657.3	2634.1	2612.5	2627.0
40°	6444.5	5889.6	4054.5	2910.2	2677.5	2590.8	2521.4	2447.7	2369.7	2340.8	2353.8
42.5°	6990.7	6248.0	3897.0	2689.1	2501.2	2430.4	2356.7	2249.8	2132.7	2073.5	2080.8
45°	7557.1	6615.0	3742.5	2470.9	2320.6	2290.3	2205.0	2076.4	1949.2	1874.1	1868.4
47.5°	8112.0	6961.8	3515.5	2251.2	2151.6	2184.8	2118.3	1999.8	1858.2	1739.7	1726.7
50°	8642.3	7286.9	3144.2	2028.7	2014.2	2153.0	2089.4	1918.9	1757.1	1605.4	1592.3
52.5°	9168.2	7549.8	2668.8	1826.4	1940.5	2144.3	2051.8	1864.0	1666.0	1507.1	1489.7
55°	9614.7	7685.8	2210.8	1653.0	1833.6	2070.6	2007.1	1799.0	1537.4	1368.4	1353.9
57.5°	9869.0	7575.9	1829.3	1482.6	1686.2	1949.2	1930.5	1660.3	1384.3	1254.2	1236.9
60°	9759.2	7130.8	1517.2	1333.7	1546.1	1817.7	1797.5	1522.9	1267.2	1144.4	1127.1
62.5°	9153.8	6282.6	1270.1	1203.7	1418.9	1683.4	1664.6	1417.5	1177.6	1059.1	1040.4
65°	7934.2	5110.8	1077.9	1095.3	1290.4	1521.5	1549.0	1329.3	1106.8	991.3	972.4
67.5°	6051.5	3702.0	927.6	1001.3	1164.6	1362.6	1442.1	1265.8	1047.6	937.8	920.4
70°	3449.1	2102.4	800.5	910.3	1053.4	1215.2	1359.7	1215.2	984.0	893.0	881.4
72.5°	1307.7	965.2	692.2	819.3	946.5	1090.9	1268.6	1135.7	910.3	842.4	830.9
75°	697.9	588.1	582.3	712.4	823.6	969.5	1154.6	1057.7	855.4	890.1	919.0
77.5°	475.4	416.2	487.0	609.8	689.2	835.2	1033.1	939.2	741.3	738.4	680.6
80°	329.4	294.8	396.0	491.3	533.2	702.2	901.7	806.3	604.0	563.5	538.9
82.5°	197.9	192.2	296.2	367.1	377.1	541.8	747.0	676.2	494.2	430.6	433.5
85°	108.3	114.2	189.3	215.2	219.7	378.5	585.2	523.1	380.1	319.3	322.3
87.5°	30.3	39.1	69.4	85.3	105.5	196.5	348.2	310.7	190.8	132.9	132.9
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)