

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: P970406

Luminaire Tested: **NAV-SB6B-740-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970406
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-740-U-T4FT
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36598.6 lumens
Efficiency: N/A
Efficacy: 166.1 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

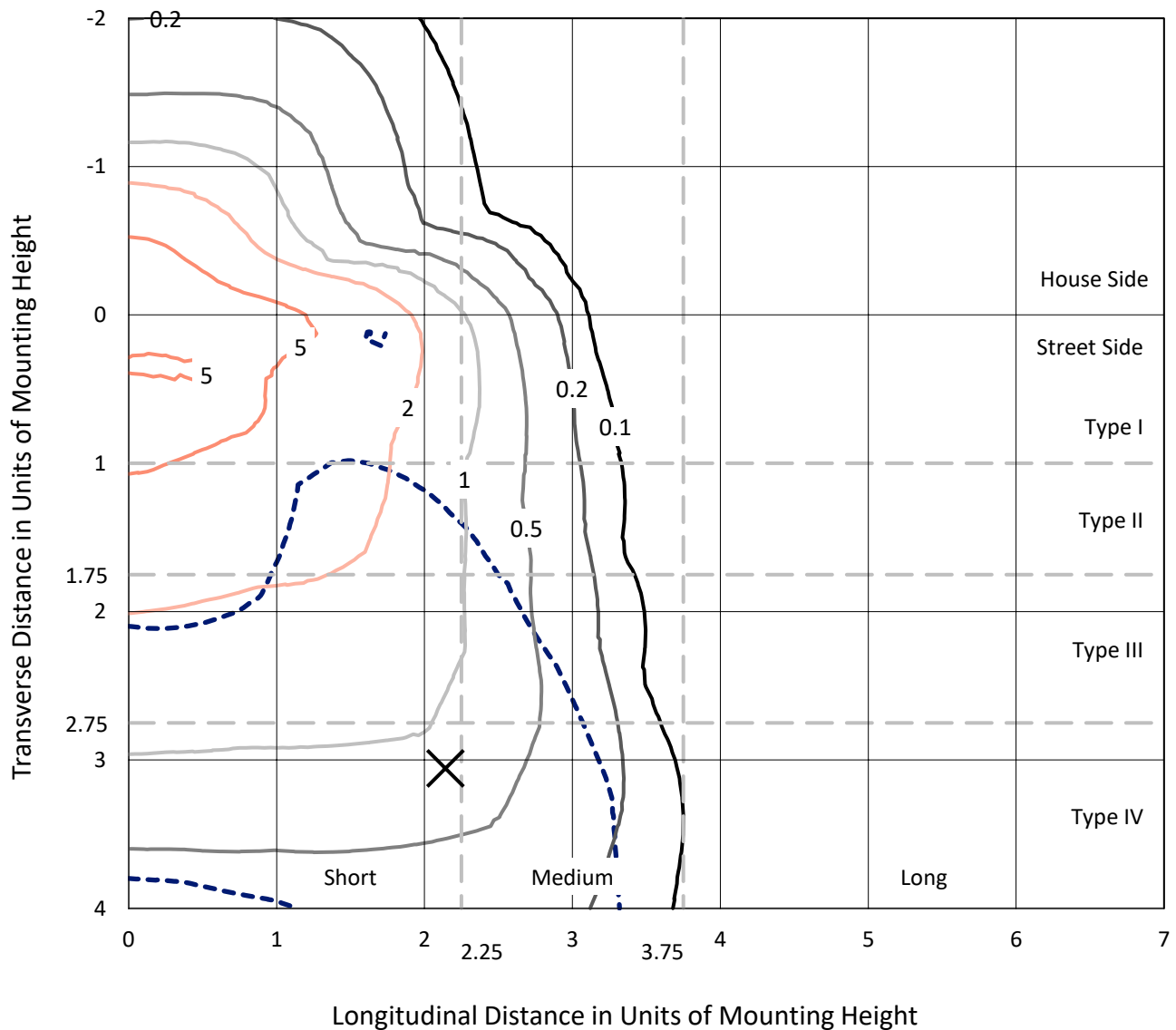


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Iso-Footcandle Lines of Horizontal Illumination

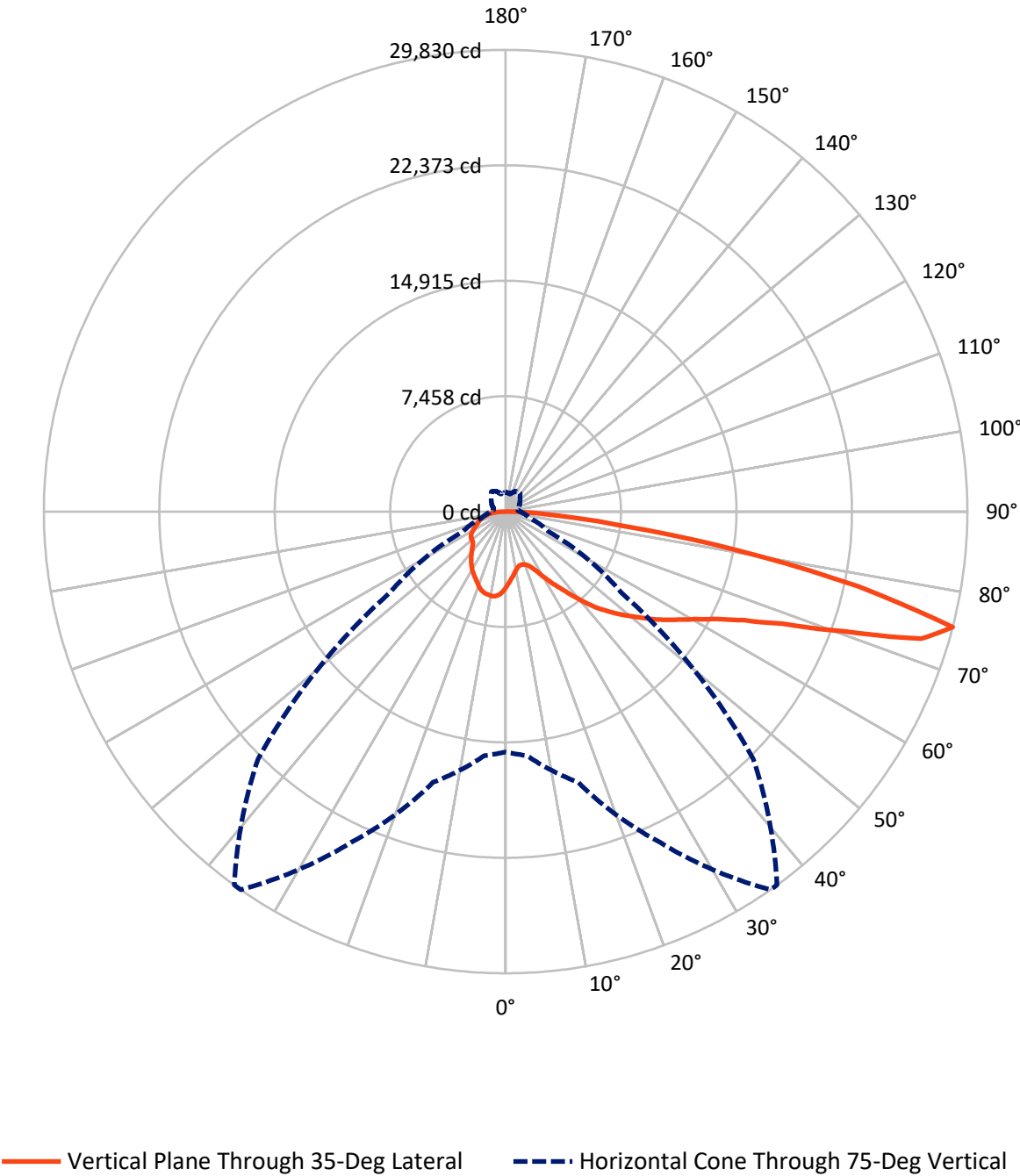
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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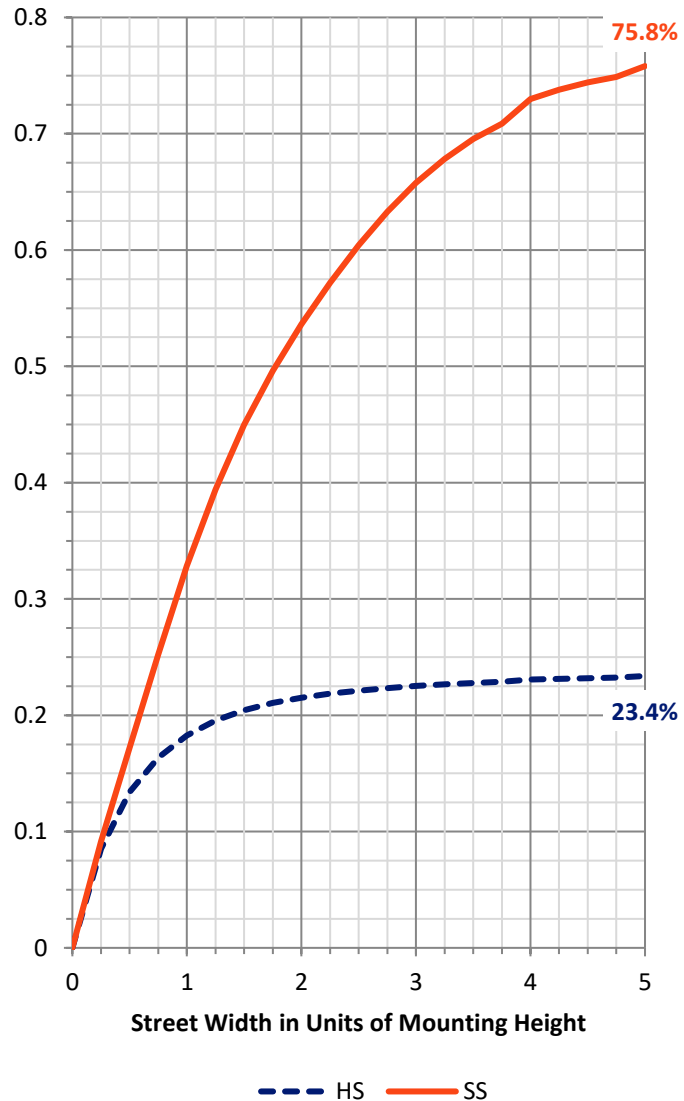
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8709.6	0.0	8709.6
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	27889.1	0.0	27889.1
	% Fixture	76.2	0.0	76.2
Total	Lumens	36598.6	0.0	36598.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	461.8	1.3
10°-20°	1331.9	3.6
20°-30°	2236.6	6.1
30°-40°	3476.0	9.5
40°-50°	5159.3	14.1
50°-60°	7122.8	19.5
60°-70°	8641.5	23.6
70°-80°	7141.6	19.5
80°-90°	1027.2	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°	36598.6	100.0
0°-180°	36598.6	100.0

Coefficient of Utilization



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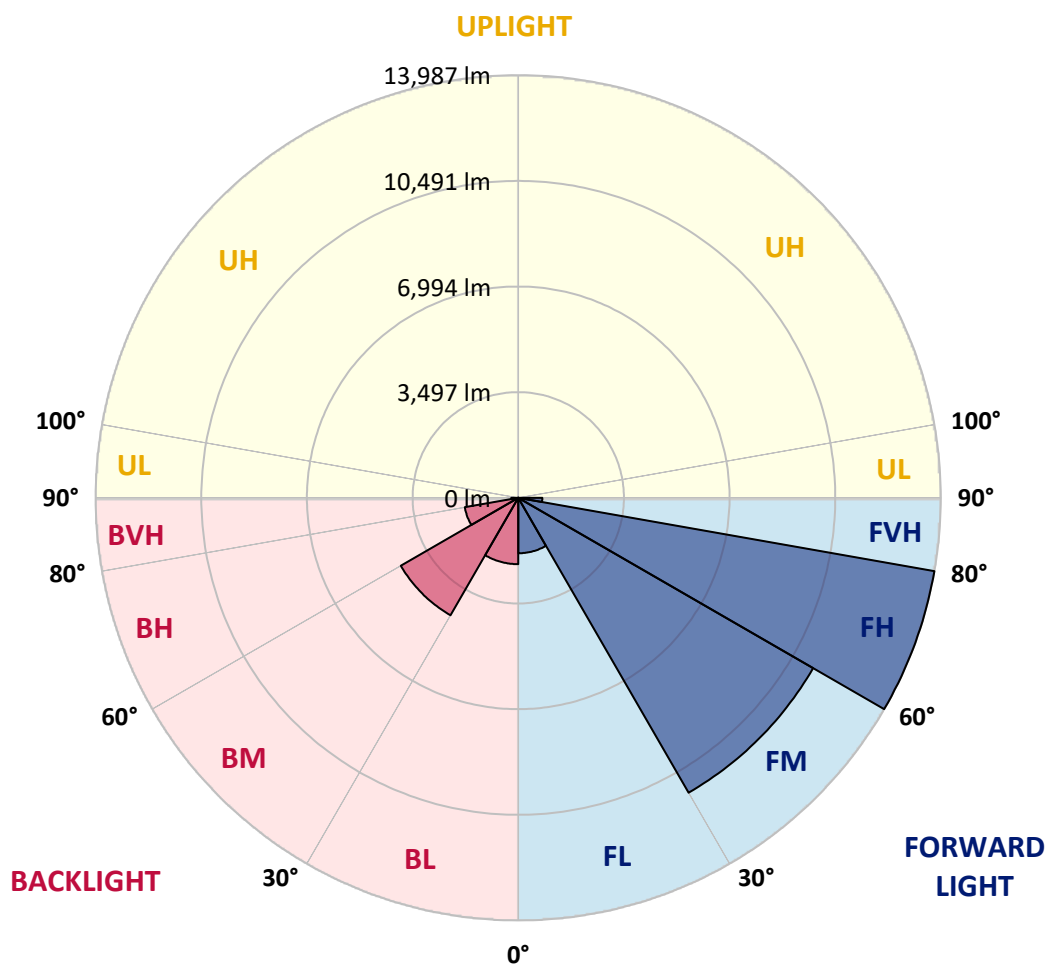
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1835.4	5.0			
FM	(30°-60°)	11270.4	30.8			
FH	(60°-80°)	13987.5	38.2			G5
FVH	(80°-90°)	795.9	2.2			G5
BL	(0°-30°)	2194.9	6.0	B3/2500		
BM	(30°-60°)	4487.7	12.3	B3/5000		
BH	(60°-80°)	1795.6	4.9	B3/2500		G3/2500
BVH	(80°-90°)	231.3	0.6			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°	36°	45°	55°	65°	75°	85°
0°	4877.1	4877.1	4877.1	4877.1	4877.1	4877.1	4877.1	4877.1	4877.1	4877.1	4877.1
2.5°	4497.2	4524.9	4536.8	4530.8	4560.4	4556.5	4598.0	4649.5	4720.7	4789.9	4890.9
5°	4150.9	4180.6	4206.3	4230.1	4287.5	4305.2	4370.5	4469.4	4600.0	4732.6	4898.8
7.5°	3828.4	3854.1	3893.7	3937.2	4034.2	4052.0	4160.8	4315.1	4497.2	4691.0	4920.5
10°	3565.3	3591.0	3632.5	3682.0	3802.6	3824.5	3963.0	4168.7	4406.2	4651.4	4944.3
12.5°	3452.5	3460.4	3484.2	3533.6	3638.4	3652.3	3804.7	4040.1	4317.1	4621.8	4979.9
15°	3446.6	3462.3	3464.4	3490.1	3577.1	3583.1	3723.5	3957.0	4261.7	4615.9	5033.4
17.5°	3505.9	3517.8	3500.0	3515.9	3589.0	3598.9	3709.7	3917.4	4243.9	4641.6	5124.3
20°	3664.2	3674.1	3620.7	3598.9	3652.3	3660.3	3769.0	3943.2	4261.7	4695.0	5249.0
22.5°	4000.6	4006.5	3875.9	3786.9	3790.9	3794.8	3889.8	4048.0	4330.9	4792.0	5407.3
25°	4524.9	4520.9	4313.1	4141.0	4042.1	4020.4	4083.6	4218.2	4447.7	4920.5	5611.1
27.5°	5138.2	5108.5	4900.7	4643.6	4427.9	4396.2	4382.4	4439.8	4613.8	5090.7	5860.3
30°	5830.6	5802.9	5579.4	5243.1	4944.3	4892.8	4762.3	4732.6	4861.2	5322.2	6206.6
32.5°	6590.4	6572.6	6305.5	5898.0	5498.3	5439.0	5219.3	5140.2	5241.0	5672.3	6689.4
35°	7227.5	7211.7	6990.1	6570.7	6081.9	6008.8	5785.2	5696.1	5747.6	6121.5	7320.4
37.5°	7803.2	7795.3	7605.4	7274.9	6770.4	6681.5	6430.1	6400.5	6390.6	6713.0	8086.1
40°	8337.5	8317.7	8119.7	7945.7	7571.8	7490.6	7269.0	7243.3	7168.1	7441.2	8952.8
42.5°	8929.0	8877.5	8590.6	8509.6	8408.7	8341.3	8208.8	8212.8	8046.6	8262.2	9870.8
45°	9411.8	9382.0	9087.2	9039.8	9148.6	9121.0	9235.7	9265.4	8942.8	9122.9	10824.4
47.5°	9930.1	9902.4	9653.1	9619.5	9914.3	9922.2	10327.8	10337.7	9817.3	10017.2	11780.0
50°	10569.2	10529.6	10282.3	10323.8	10654.3	10683.9	11425.9	11358.6	10622.6	10925.3	12727.7
52.5°	10990.6	11014.3	10960.9	11028.2	11479.3	11507.0	12506.1	12334.0	11419.9	11821.5	13657.6
55°	11301.2	11348.7	11515.0	11669.2	12349.8	12377.5	13525.1	13262.0	12080.8	12652.5	14532.1
57.5°	11700.9	11633.6	11944.2	12245.0	13176.9	13250.1	14516.3	14156.2	12666.4	13368.8	15131.7
60°	12274.7	12227.1	12468.5	12913.7	14102.8	14219.5	15564.9	14961.4	13095.7	13936.6	15248.3
62.5°	13438.1	13319.3	13356.9	13750.6	15270.1	15424.4	16748.1	15663.8	13309.4	14158.2	14623.2
65°	15177.1	14973.3	14783.4	15056.4	16914.2	17066.6	18083.6	16215.8	13230.3	13728.8	12963.2
67.5°	17367.3	17165.5	16932.1	17189.2	19335.9	19456.7	19731.7	16526.5	12607.1	12074.8	10029.0
70°	19173.8	19098.5	19377.5	20436.0	23203.9	23207.8	21844.7	16269.2	10899.5	8561.0	5802.9
72.5°	18934.3	18888.8	20358.9	23631.3	28079.0	27974.1	23845.0	14322.4	7342.3	3862.0	2174.3
75°	15533.3	15828.0	18105.3	23573.9	29830.0	29816.1	22620.2	9105.1	3037.0	1600.6	1123.8
77.5°	8329.6	8796.4	11754.3	17404.9	23287.0	23637.2	15903.2	3185.4	1303.8	1024.9	777.6
80°	2716.5	3124.1	4685.1	8861.7	15131.7	15066.4	6815.9	1250.4	892.3	726.1	538.1
82.5°	1153.4	1201.0	2093.3	4184.6	7765.6	7645.0	2170.4	718.2	627.2	496.6	332.4
85°	451.1	504.5	923.9	1935.0	3363.4	3290.2	783.5	356.1	401.6	324.5	197.8
87.5°	148.4	180.1	330.5	662.8	1046.6	1009.0	191.9	122.7	174.1	148.4	71.2
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°	4877.1	4877.1	4877.1	4877.1	4877.1	4877.1	4877.1	4877.1	4877.1	4877.1	4877.1
2.5°	4918.6	4950.2	4987.9	5043.2	5090.7	5130.2	5171.8	5197.6	5207.4	5237.1	5235.1
5°	4954.1	5023.4	5116.4	5207.4	5296.5	5349.9	5397.3	5421.1	5442.9	5458.7	5462.6
7.5°	5013.6	5102.6	5249.0	5367.7	5442.9	5486.4	5518.1	5510.1	5518.1	5522.0	5527.9
10°	5064.9	5189.6	5363.7	5476.5	5533.9	5535.8	5527.9	5500.3	5486.4	5488.4	5492.4
12.5°	5126.3	5264.8	5452.8	5547.7	5563.6	5520.0	5486.4	5439.0	5421.1	5413.2	5409.2
15°	5209.4	5367.7	5549.8	5585.3	5545.8	5490.3	5433.0	5355.8	5316.3	5284.6	5294.4
17.5°	5310.3	5484.5	5624.9	5599.2	5514.1	5423.1	5330.1	5213.4	5132.3	5098.7	5100.6
20°	5450.7	5607.1	5682.3	5569.5	5440.9	5302.4	5144.1	5001.7	4926.5	4892.8	4888.8
22.5°	5620.9	5771.3	5737.6	5518.1	5336.0	5114.4	4916.6	4811.8	4774.1	4750.4	4754.4
25°	5824.8	5953.3	5777.2	5442.9	5164.0	4865.2	4712.8	4679.1	4661.4	4643.6	4643.6
27.5°	6089.8	6159.1	5806.9	5332.0	4894.8	4600.0	4544.6	4550.6	4544.6	4514.9	4520.9
30°	6440.1	6426.2	5834.6	5152.1	4586.2	4360.7	4364.6	4390.3	4394.3	4374.5	4384.3
32.5°	6901.0	6760.6	5848.4	4918.6	4291.4	4150.9	4154.8	4182.5	4202.4	4168.7	4184.6
35°	7458.9	7150.3	5826.7	4625.7	4063.8	3951.1	3921.4	3929.3	3935.3	3903.6	3925.3
37.5°	8109.9	7587.6	5729.7	4301.3	3875.9	3755.2	3691.8	3638.4	3606.8	3577.1	3596.9
40°	8824.1	8064.4	5551.7	3984.7	3666.2	3547.4	3452.5	3351.5	3244.7	3205.2	3223.0
42.5°	9572.0	8555.1	5336.0	3682.0	3424.8	3327.9	3226.9	3080.5	2920.2	2839.1	2849.1
45°	10347.6	9057.6	5124.3	3383.2	3177.5	3135.9	3019.2	2843.1	2669.0	2566.1	2558.2
47.5°	11107.3	9532.4	4813.7	3082.5	2946.0	2991.5	2900.4	2738.3	2544.4	2382.1	2364.3
50°	11833.4	9977.7	4305.2	2777.9	2758.1	2948.0	2860.9	2627.5	2405.9	2198.1	2180.3
52.5°	12553.6	10337.7	3654.3	2500.8	2657.1	2936.1	2809.5	2552.2	2281.2	2063.6	2039.9
55°	13165.0	10523.7	3027.1	2263.4	2510.7	2835.1	2748.1	2463.3	2105.1	1873.6	1853.8
57.5°	13513.2	10373.3	2504.8	2029.9	2308.9	2669.0	2643.3	2273.3	1895.4	1717.4	1693.6
60°	13362.8	9763.9	2077.5	1826.1	2117.0	2489.0	2461.2	2085.4	1735.1	1567.0	1543.2
62.5°	12533.8	8602.5	1739.1	1648.1	1942.9	2304.9	2279.2	1940.9	1612.5	1450.3	1424.5
65°	10864.0	6998.0	1476.0	1499.7	1766.8	2083.4	2120.9	1820.2	1515.6	1357.3	1331.6
67.5°	8286.0	5068.9	1270.2	1371.1	1594.7	1865.7	1974.6	1733.2	1434.4	1284.0	1260.3
70°	4722.7	2878.7	1096.1	1246.5	1442.4	1663.9	1861.8	1663.9	1347.4	1222.7	1206.9
72.5°	1790.6	1321.6	947.7	1121.9	1295.9	1493.7	1737.2	1555.1	1246.5	1153.4	1137.6
75°	955.6	805.2	797.3	975.4	1127.7	1327.6	1580.9	1448.2	1171.3	1218.7	1258.3
77.5°	651.0	569.8	666.8	835.0	943.7	1143.6	1414.6	1286.1	1015.0	1011.1	931.8
80°	451.1	403.6	542.1	672.7	730.1	961.6	1234.6	1104.0	827.0	771.6	738.0
82.5°	271.0	263.1	405.6	502.6	516.4	741.9	1022.8	926.0	676.6	589.6	593.6
85°	148.4	156.3	259.2	294.8	300.7	518.3	801.3	716.3	520.4	437.3	441.2
87.5°	41.5	53.4	95.0	116.7	144.4	269.1	476.8	425.4	261.2	182.0	182.0
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)