

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: P966780

Luminaire Tested: **NAV-SB4C-760-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P966780
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB4C-760-U-T4W-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25071.5 lumens
Efficiency: N/A
Efficacy: 124.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

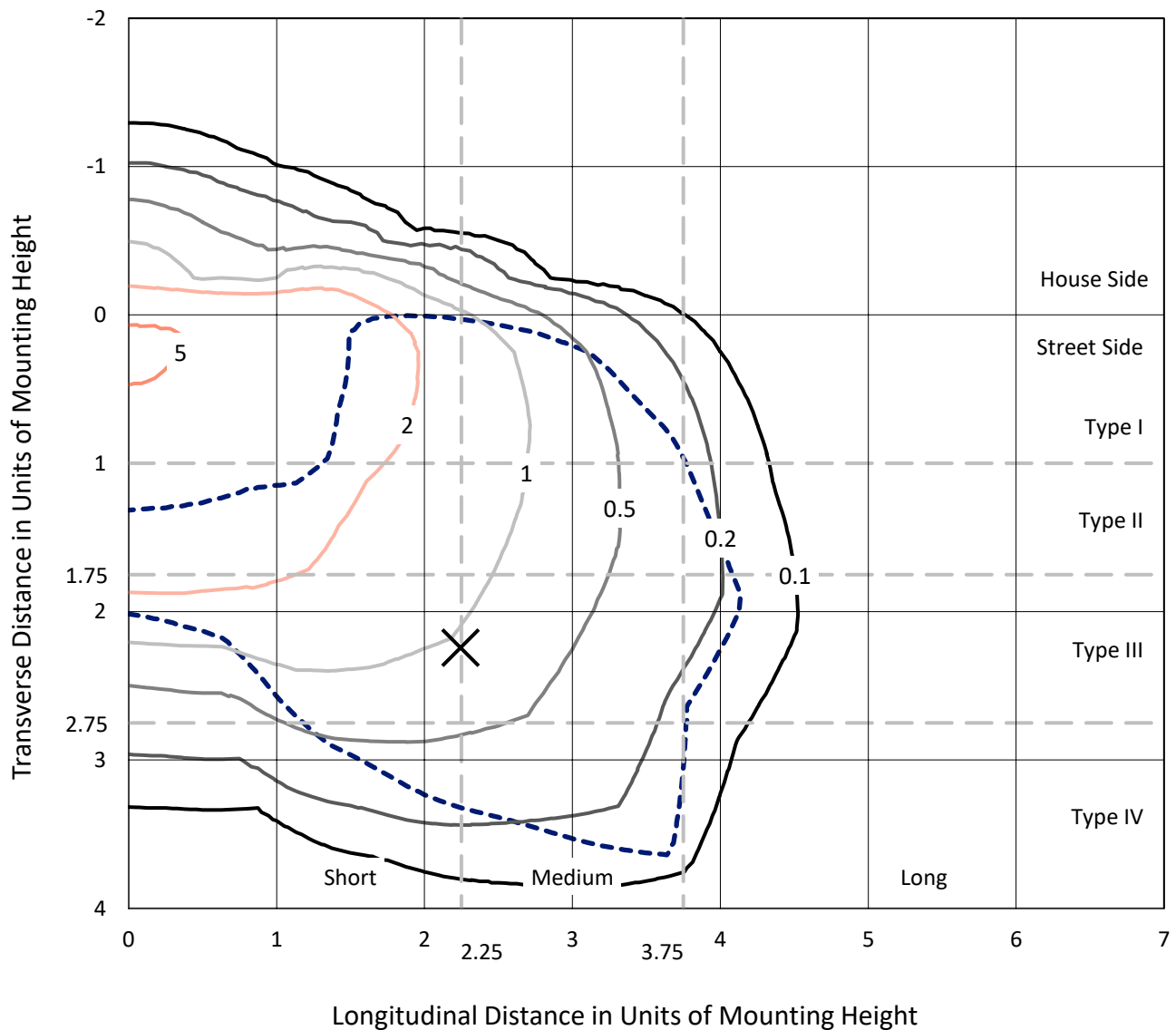
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

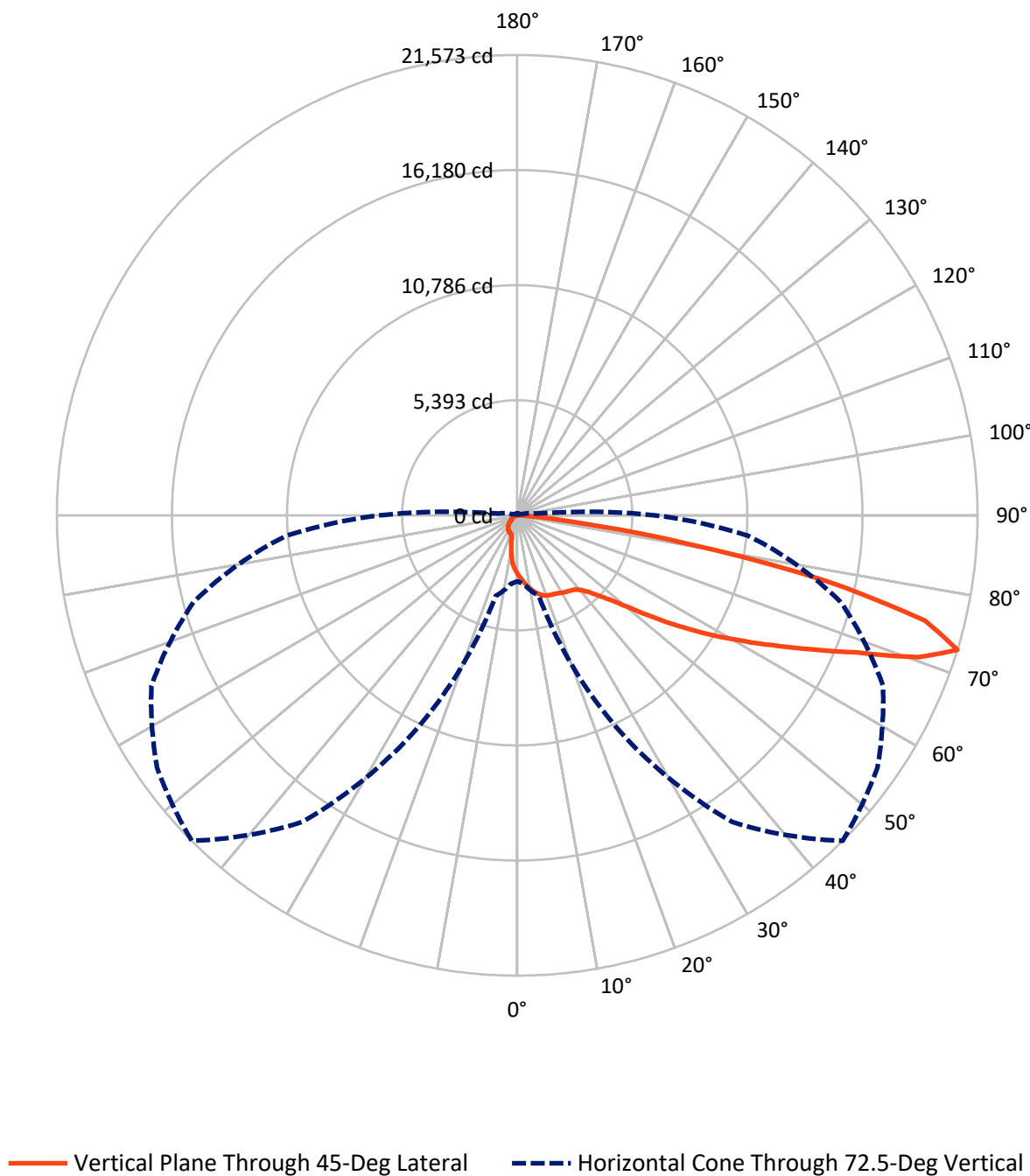
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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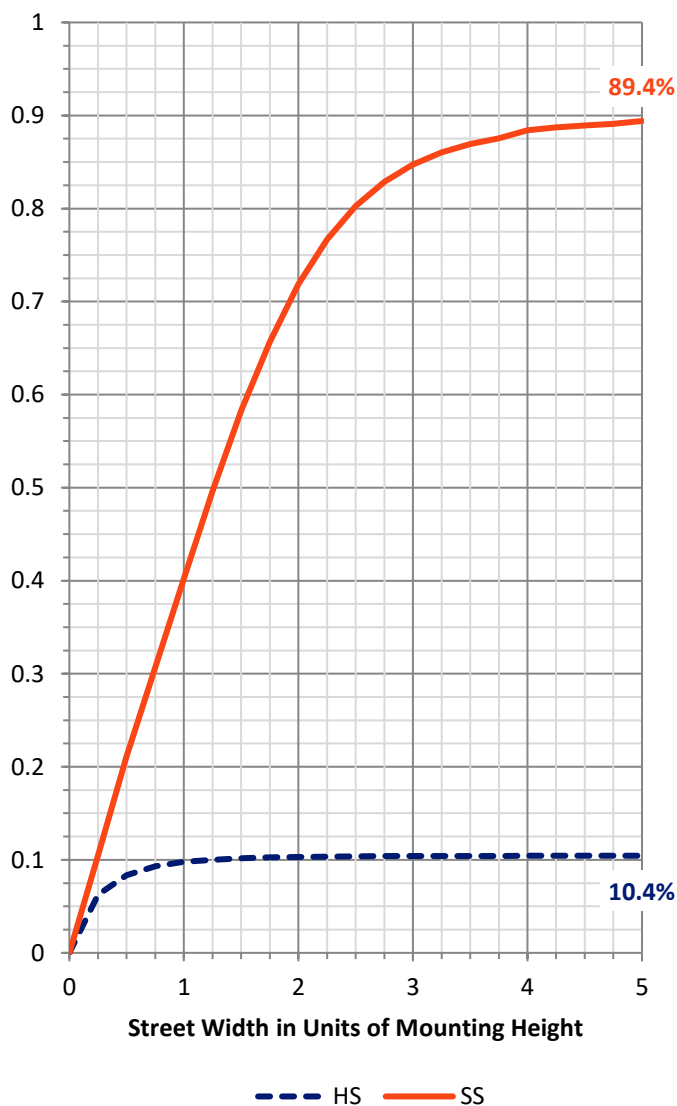
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2634.3	0.0	2634.3
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	22437.2	0.0	22437.2
	% Fixture	89.5	0.0	89.5
Total	Lumens	25071.5	0.0	25071.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.8	1.0
10°-20°	756.3	3.0
20°-30°	1242.0	5.0
30°-40°	1761.5	7.0
40°-50°	2911.5	11.6
50°-60°	5230.2	20.9
60°-70°	7262.4	29.0
70°-80°	5267.9	21.0
80°-90°	380.8	1.5
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°	25071.5	100.0
0°-180°	25071.5	100.0

Coefficient of Utilization



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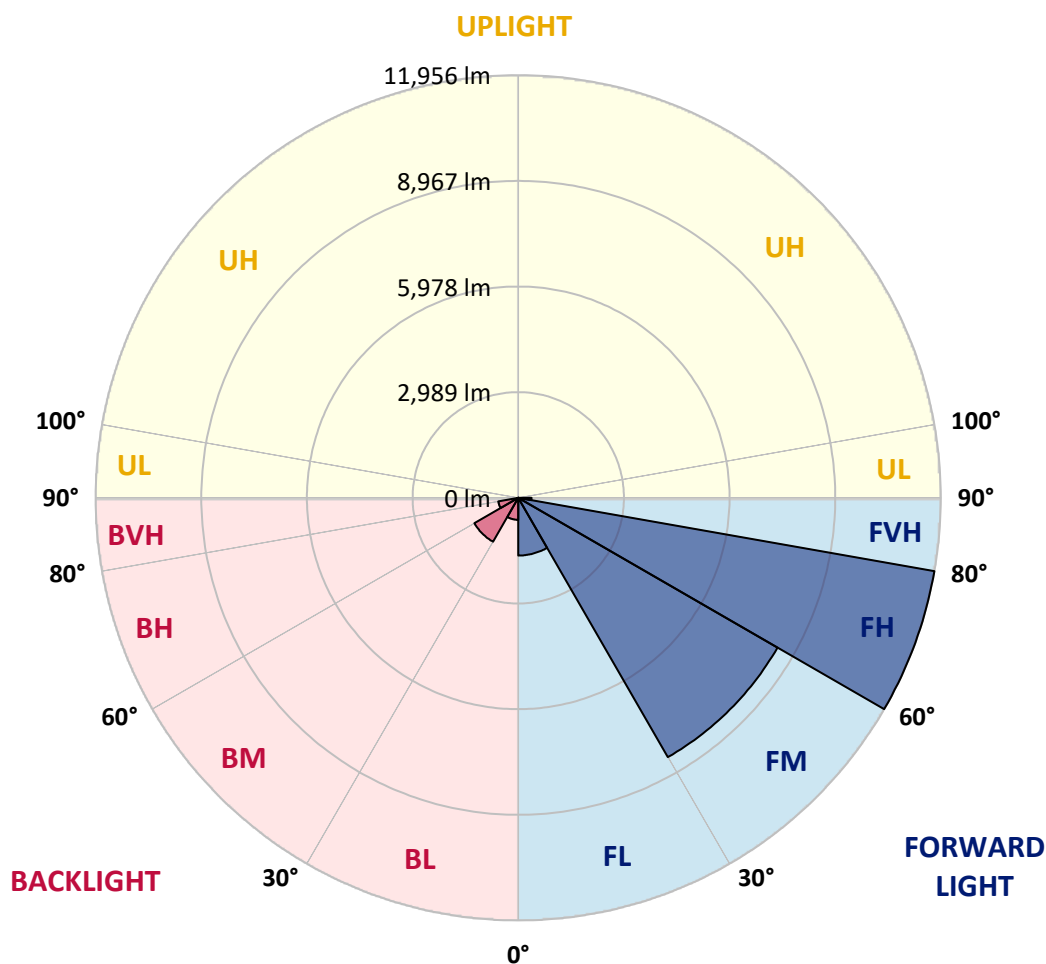
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1633.2	6.5			
FM	(30°-60°)	8470.5	33.8			
FH	(60°-80°)	11955.9	47.7			G4/12000
FVH	(80°-90°)	377.7	1.5			G3/500
BL	(0°-30°)	624.0	2.5	B2/1000		
BM	(30°-60°)	1432.7	5.7	B2/2500		
BH	(60°-80°)	574.5	2.3	B2/1000		G2/1000
BVH	(80°-90°)	3.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2746.6	2746.6	2746.6	2746.6	2746.6	2746.6	2746.6	2746.6	2746.6	2746.6	2746.6
2.5°	2999.9	3005.0	3001.6	2981.1	2946.9	2928.0	2917.8	2883.5	2861.3	2821.9	2780.8
5°	3275.4	3296.0	3284.0	3242.9	3177.9	3131.7	3117.9	3047.8	2984.5	2910.9	2825.3
7.5°	3568.0	3578.4	3556.0	3503.0	3415.7	3337.0	3325.1	3227.5	3126.6	3013.6	2897.3
10°	3821.3	3833.3	3799.1	3722.1	3622.9	3525.3	3508.2	3400.3	3280.5	3141.9	2993.1
12.5°	4033.6	4045.5	4001.0	3908.6	3799.1	3698.1	3681.0	3568.0	3436.3	3282.3	3097.4
15°	4194.4	4216.6	4156.8	4057.5	3939.4	3838.4	3829.9	3718.7	3590.3	3419.2	3222.4
17.5°	4288.5	4310.7	4254.3	4134.5	4033.6	3948.0	3937.7	3845.3	3725.5	3561.3	3343.9
20°	4303.9	4324.5	4264.5	4160.2	4076.3	4007.9	4002.7	3936.0	3848.7	3691.2	3475.7
22.5°	4257.7	4283.4	4228.6	4144.8	4086.6	4050.7	4043.8	4006.1	3956.5	3823.0	3598.9
25°	4209.8	4230.4	4189.3	4115.7	4084.8	4081.4	4086.6	4079.7	4069.5	3956.5	3742.6
27.5°	4206.4	4228.6	4182.4	4112.3	4095.2	4131.1	4136.2	4168.8	4177.3	4078.1	3881.3
30°	4235.5	4250.9	4206.4	4132.8	4124.2	4206.4	4208.0	4266.3	4280.0	4180.7	4018.1
32.5°	4298.7	4315.9	4271.4	4163.5	4151.7	4266.3	4271.4	4348.5	4370.7	4290.2	4161.9
35°	4447.7	4468.2	4416.8	4249.1	4206.4	4322.7	4338.1	4428.8	4473.3	4406.6	4310.7
37.5°	4819.0	4759.1	4689.0	4422.0	4331.3	4411.7	4437.4	4543.5	4622.2	4545.3	4488.8
40°	5741.4	5553.1	5334.1	4716.3	4550.4	4601.6	4622.2	4728.3	4836.2	4760.8	4733.4
42.5°	7125.9	6903.4	6550.9	5394.1	4880.6	4906.3	4921.7	5014.1	5166.4	5106.5	5113.3
45°	8359.7	8279.2	7919.9	6550.9	5498.4	5371.8	5390.6	5438.5	5662.7	5640.5	5685.0
47.5°	9307.7	9261.6	8984.3	7878.9	6542.3	5941.6	5994.7	6017.0	6340.3	6419.1	6538.9
50°	10036.8	10019.7	9771.5	9059.7	7906.2	6781.9	6800.7	6752.8	7237.1	7432.2	7659.8
52.5°	10724.7	10782.9	10599.8	10156.5	9362.6	7882.2	7878.9	7653.0	8306.6	8601.0	8989.5
55°	11345.9	11366.4	11385.3	11275.7	10827.4	9134.9	9102.4	8732.8	9547.4	9852.0	10273.0
57.5°	11929.5	11938.1	12105.8	12329.9	12352.2	10480.0	10420.2	9976.8	10902.7	11120.0	11378.4
60°	12321.3	12360.7	12714.9	13337.9	13610.0	11867.9	11835.4	11383.5	12282.0	12382.9	12335.1
62.5°	11756.6	11996.2	12889.5	14125.1	14797.6	13406.3	13390.9	12966.6	13733.2	13651.1	13240.3
65°	9516.5	9922.1	11493.1	14657.3	15963.0	15124.5	15146.7	14694.9	15223.7	14956.8	13976.2
67.5°	6657.0	7084.8	8943.2	14700.0	17265.3	17142.1	17270.4	16561.9	16806.7	16207.7	14150.7
70°	4603.4	4824.2	6034.1	13779.4	18280.1	19921.3	19917.8	18855.1	18381.1	16777.6	13260.8
72.5°	3095.7	3210.4	3918.9	10931.8	17534.0	21572.7	21473.3	20607.5	18911.6	15690.9	10834.2
75°	1305.7	1389.6	1813.9	6143.5	13871.8	19736.4	19467.7	18211.7	16803.2	12355.6	6759.7
77.5°	414.1	450.1	715.3	2199.0	7641.0	14835.2	14551.2	11373.3	11262.1	6198.3	2471.1
80°	196.8	229.3	402.1	883.0	3006.7	8068.8	8029.4	5159.5	4844.7	1673.6	496.3
82.5°	85.6	101.0	222.4	472.3	1345.1	2878.4	2936.6	1755.8	1452.9	634.9	152.3
85°	27.4	36.0	102.7	217.3	568.2	715.3	706.7	417.6	585.3	345.7	53.1
87.5°	0.0	0.0	34.2	49.6	58.2	41.1	46.2	36.0	162.6	95.8	18.9
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°	2746.6	2746.6	2746.6	2746.6	2746.6	2746.6	2746.6	2746.6	2746.6	2746.6	2746.6
2.5°	2760.3	2733.0	2685.0	2640.5	2601.1	2561.8	2537.9	2503.7	2500.2	2500.2	2508.8
5°	2779.2	2734.7	2649.1	2558.4	2454.1	2354.7	2255.5	2159.7	2128.8	2106.6	2116.8
7.5°	2833.9	2763.7	2628.5	2455.7	2257.3	2039.9	1887.5	1723.2	1660.0	1625.8	1630.9
10°	2912.6	2816.8	2611.4	2308.5	1986.9	1690.7	1473.4	1295.5	1227.0	1197.9	1197.9
12.5°	2999.9	2881.8	2580.6	2125.4	1690.7	1336.5	1124.3	1042.2	1031.9	1031.9	1031.9
15°	3104.3	2960.5	2527.5	1909.8	1381.0	1057.6	982.3	985.7	996.0	1002.9	1002.9
17.5°	3212.1	3044.4	2443.7	1668.5	1107.2	951.5	953.1	958.4	966.9	973.7	973.7
20°	3328.5	3128.3	2332.5	1411.8	949.8	920.7	925.8	930.9	937.8	941.3	942.9
22.5°	3453.4	3207.0	2200.8	1160.3	896.7	895.0	896.7	901.9	910.4	910.4	913.8
25°	3586.9	3294.2	2050.1	977.1	869.3	869.3	872.8	876.2	883.0	883.0	884.8
27.5°	3723.8	3374.7	1891.0	881.3	845.4	843.7	843.7	848.8	852.2	853.9	855.7
30°	3874.4	3468.8	1731.8	860.8	826.6	818.1	812.8	816.3	819.7	821.4	824.8
32.5°	4028.4	3559.5	1589.8	869.3	807.7	792.3	775.2	771.8	771.8	778.7	783.8
35°	4199.5	3658.7	1480.3	898.4	797.4	754.7	727.3	711.9	713.6	723.9	729.0
37.5°	4404.8	3778.6	1399.8	924.1	790.6	711.9	667.4	648.6	636.6	648.6	645.1
40°	4673.6	3954.9	1341.6	944.6	782.1	662.3	602.4	571.5	549.3	556.2	552.8
42.5°	5068.8	4232.0	1319.4	946.4	763.2	604.1	535.7	494.6	462.1	463.8	456.9
45°	5623.4	4670.1	1434.1	924.1	722.2	540.8	465.5	410.7	390.2	385.1	378.2
47.5°	6383.2	5308.5	1699.3	877.9	662.3	479.2	397.0	350.9	335.4	326.9	321.7
50°	7401.4	6128.2	1993.6	826.6	602.4	421.0	340.5	311.5	301.1	292.6	290.9
52.5°	8582.1	6959.9	2234.9	775.2	542.5	369.6	304.6	287.5	278.9	272.1	270.4
55°	9665.4	7533.1	2221.3	720.5	484.3	328.6	278.9	268.7	258.4	251.5	248.2
57.5°	10339.7	7613.6	1831.1	660.6	417.6	296.0	255.0	248.2	236.2	227.7	225.9
60°	10649.4	7154.9	1283.5	581.9	350.9	265.3	229.3	225.9	210.5	198.5	195.1
62.5°	10705.9	6302.7	855.7	484.3	292.6	236.2	203.7	198.5	177.9	157.4	147.2
65°	10476.6	5084.3	592.1	378.2	249.9	205.3	174.6	164.3	142.1	121.5	114.7
67.5°	9751.0	3569.8	412.5	272.1	212.2	162.6	138.6	135.2	118.1	101.0	95.8
70°	8421.3	2034.7	275.5	203.7	167.7	111.2	109.6	113.0	95.8	82.1	75.3
72.5°	6456.8	930.9	171.2	148.9	114.7	75.3	87.2	89.0	73.6	61.6	54.7
75°	3800.8	398.7	107.8	95.8	58.2	49.6	63.3	65.0	49.6	39.4	34.2
77.5°	1293.8	150.6	68.5	56.5	29.1	27.4	41.1	41.1	27.4	15.4	12.0
80°	294.4	56.5	34.2	22.2	13.7	12.0	13.7	12.0	6.9	1.7	0.0
82.5°	83.8	22.2	13.7	8.5	5.1	5.1	1.7	0.0	0.0	0.0	0.0
85°	24.0	10.2	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.2	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)