

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: P968826

Luminaire Tested: **NAV-SB5C-740-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968826
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-SB5C-740-U-T4W-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 4000K, 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: 31600.8 lumens
Efficiency: N/A
Efficacy: 126.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

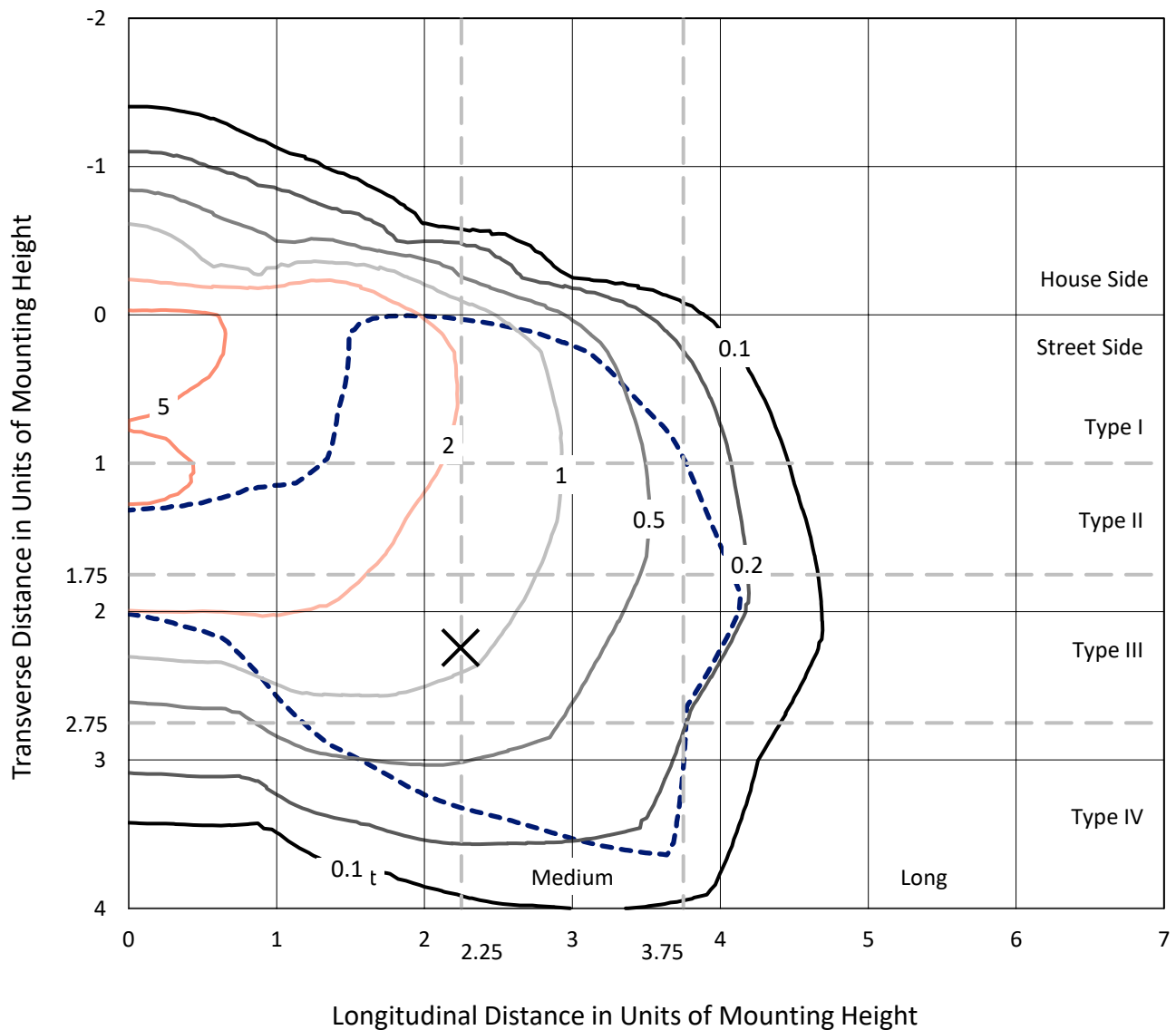
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

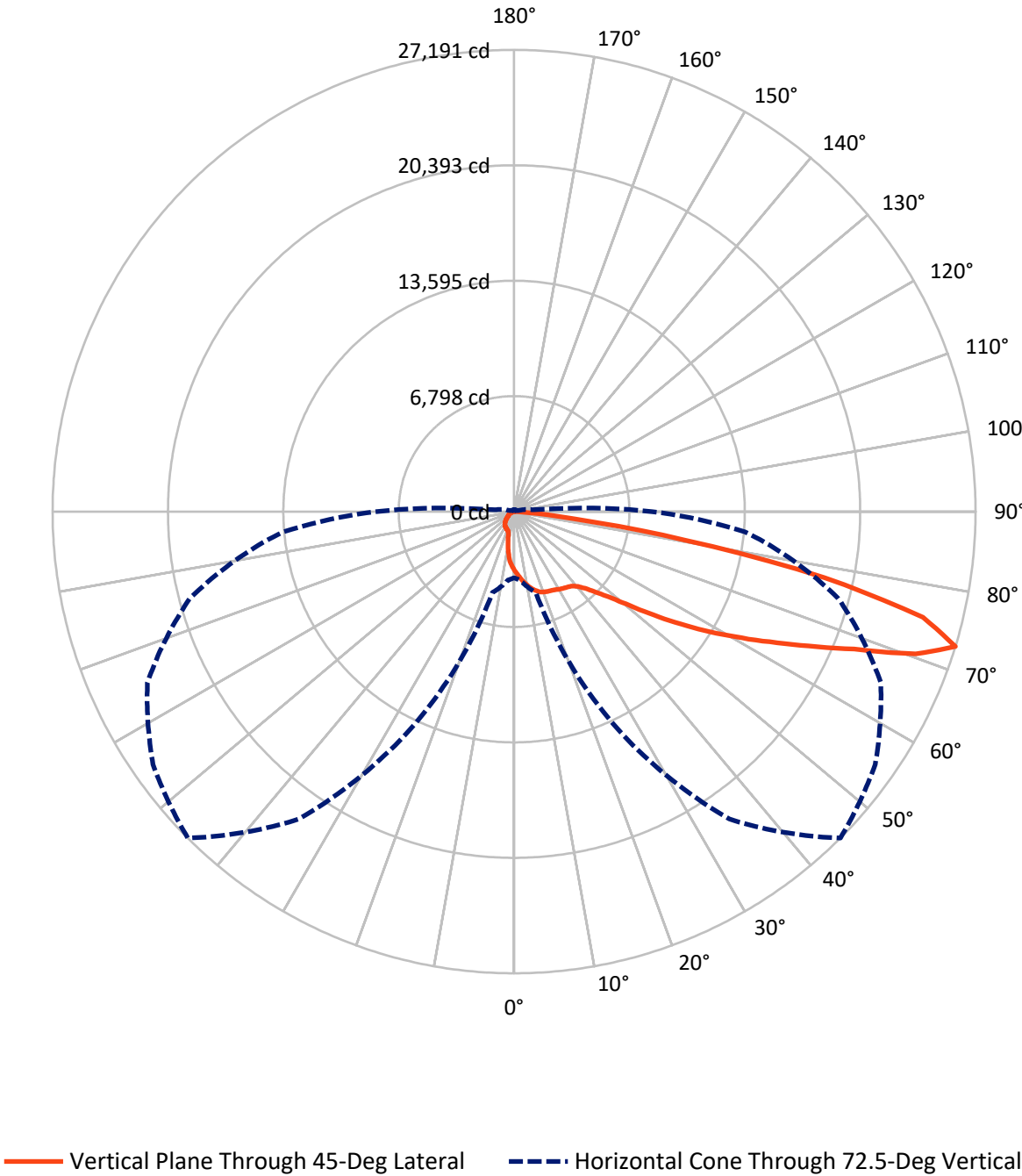
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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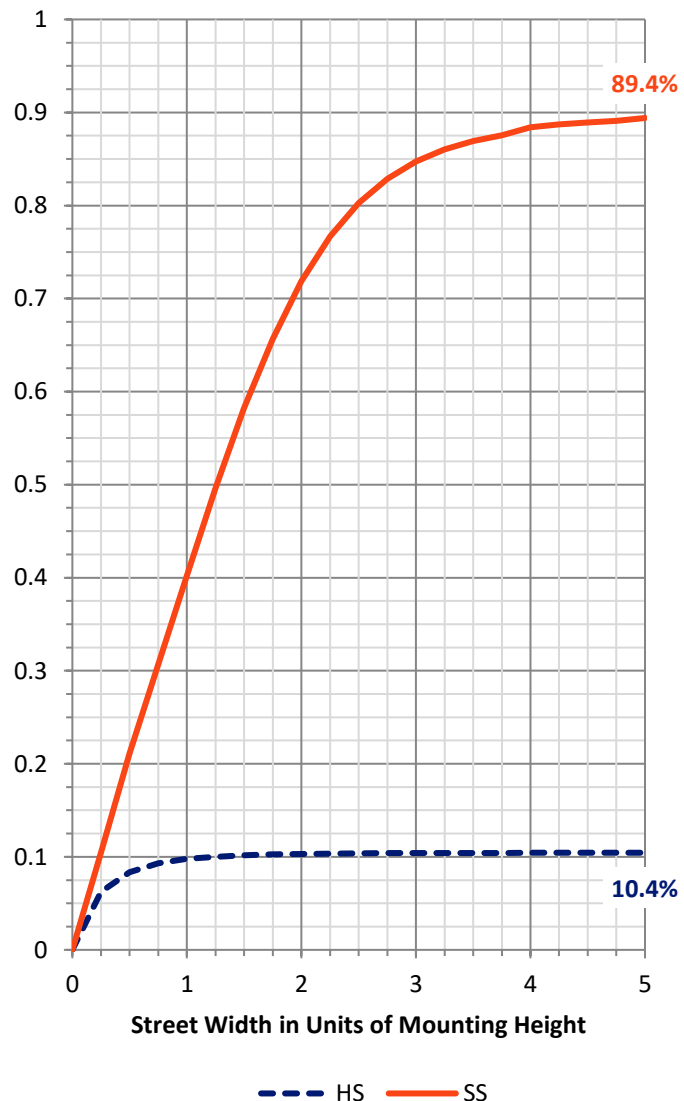
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3320.4	0.0	3320.4
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	28280.4	0.0	28280.4
	% Fixture	89.5	0.0	89.5
Total	Lumens	31600.8	0.0	31600.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	326.2	1.0
10°-20°	953.3	3.0
20°-30°	1565.5	5.0
30°-40°	2220.2	7.0
40°-50°	3669.7	11.6
50°-60°	6592.3	20.9
60°-70°	9153.7	29.0
70°-80°	6639.8	21.0
80°-90°	480.0	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°	31600.8	100.0
0°-180°	31600.8	100.0

Coefficient of Utilization



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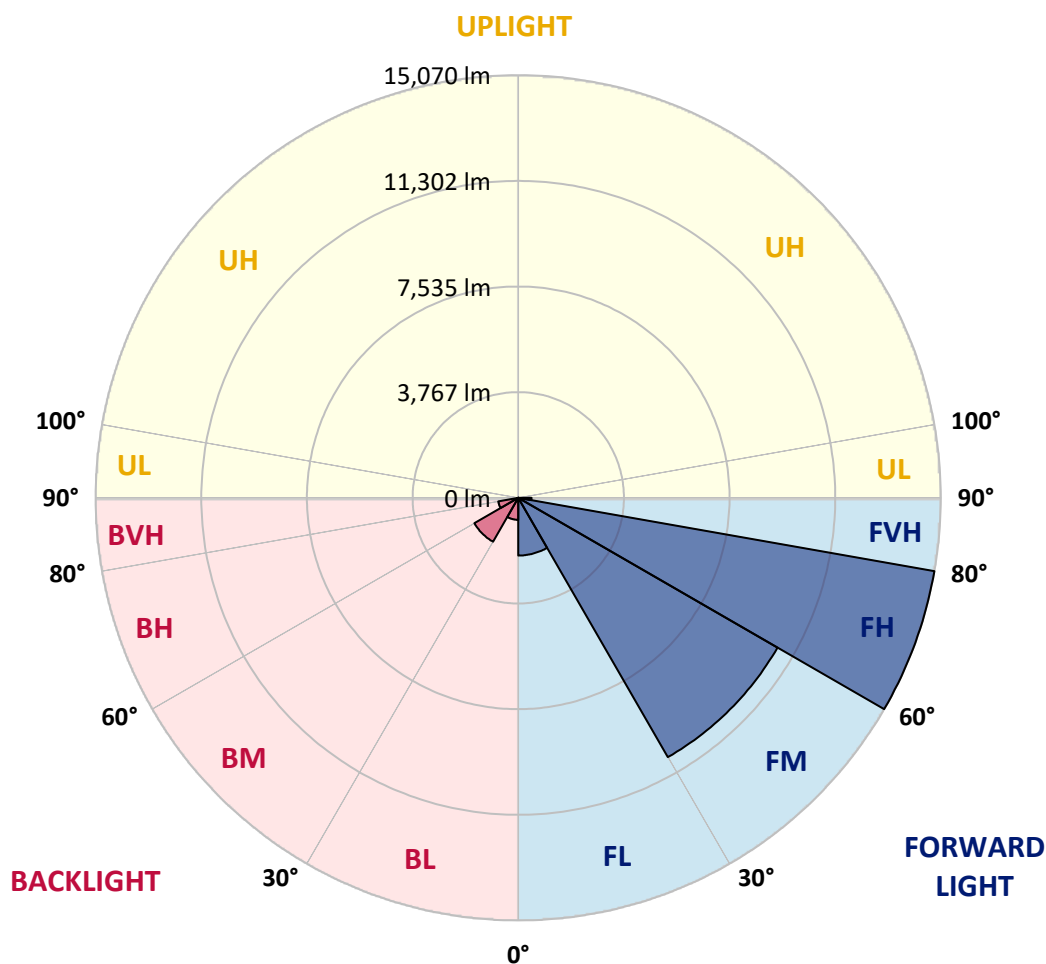
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2058.5	6.5			
FM	(30°-60°)	10676.4	33.8			
FH	(60°-80°)	15069.5	47.7			G5
FVH	(80°-90°)	476.0	1.5			G3/500
BL	(0°-30°)	786.5	2.5	B2/1000		
BM	(30°-60°)	1805.8	5.7	B2/2500		
BH	(60°-80°)	724.1	2.3	B2/1000		G2/1000
BVH	(80°-90°)	4.0	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-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	3461.9	3461.9	3461.9	3461.9	3461.9	3461.9	3461.9	3461.9	3461.9	3461.9	3461.9
2.5°	3781.1	3787.6	3783.3	3757.4	3714.3	3690.6	3677.6	3634.4	3606.5	3556.9	3505.1
5°	4128.4	4154.3	4139.3	4087.5	4005.5	3947.3	3930.0	3841.6	3761.7	3669.0	3561.2
7.5°	4497.3	4510.2	4482.2	4415.3	4305.3	4206.1	4191.0	4068.0	3940.8	3798.4	3651.8
10°	4816.5	4831.6	4788.5	4691.4	4566.3	4443.4	4421.7	4285.9	4135.0	3960.2	3772.5
12.5°	5084.0	5099.1	5043.0	4926.6	4788.5	4661.2	4639.7	4497.3	4331.1	4137.1	3904.1
15°	5286.7	5314.7	5239.3	5114.1	4965.3	4838.1	4827.2	4687.1	4525.3	4309.6	4061.6
17.5°	5405.3	5433.4	5362.2	5211.2	5084.0	4976.2	4963.2	4846.7	4695.7	4488.7	4214.7
20°	5424.8	5450.6	5375.2	5243.6	5137.9	5051.6	5045.2	4961.0	4851.0	4652.6	4380.7
22.5°	5366.5	5398.9	5329.9	5224.2	5150.8	5105.5	5096.9	5049.5	4986.9	4818.6	4536.1
25°	5306.1	5332.0	5280.3	5187.5	5148.7	5144.4	5150.8	5142.2	5129.3	4986.9	4717.3
27.5°	5301.8	5329.9	5271.6	5183.2	5161.6	5206.9	5213.4	5254.4	5265.1	5140.1	4892.0
30°	5338.5	5357.9	5301.8	5209.0	5198.3	5301.8	5304.0	5377.4	5394.6	5269.4	5064.5
32.5°	5418.3	5439.9	5383.8	5247.9	5232.8	5377.4	5383.8	5480.9	5508.9	5407.5	5245.7
35°	5605.9	5631.9	5567.1	5355.7	5301.8	5448.5	5467.9	5582.3	5638.3	5554.2	5433.4
37.5°	6074.0	5998.5	5910.0	5573.6	5459.3	5560.6	5593.0	5726.8	5826.0	5728.9	5657.7
40°	7236.6	6999.3	6723.3	5944.6	5735.4	5800.1	5826.0	5959.7	6095.6	6000.7	5966.1
42.5°	8981.6	8701.2	8256.9	6798.7	6151.6	6184.0	6203.4	6319.9	6511.9	6436.4	6445.0
45°	10536.8	10435.4	9982.5	8256.9	6930.3	6770.7	6794.4	6854.8	7137.4	7109.4	7165.5
47.5°	11731.7	11673.5	11324.1	9930.7	8246.1	7489.0	7555.9	7583.9	7991.5	8090.7	8241.7
50°	12650.7	12629.0	12316.3	11419.0	9965.2	8548.1	8571.8	8511.4	9121.8	9367.7	9654.6
52.5°	13517.7	13591.0	13360.3	12801.6	11800.7	9935.0	9930.7	9646.0	10469.9	10840.9	11330.6
55°	14300.7	14326.5	14350.3	14212.2	13647.2	11513.9	11472.9	11007.0	12033.7	12417.7	12948.3
57.5°	15036.2	15047.0	15258.4	15540.9	15568.9	13209.3	13133.7	12575.1	13742.1	14016.0	14341.7
60°	15530.2	15579.8	16026.3	16811.4	17154.3	14958.5	14917.5	14348.2	15480.6	15607.8	15547.4
62.5°	14818.3	15120.3	16246.2	17803.6	18651.3	16897.6	16878.3	16343.3	17309.7	17206.2	16688.4
65°	11994.9	12506.1	14486.2	18474.4	20120.1	19063.3	19091.3	18521.9	19188.4	18851.9	17616.0
67.5°	8390.5	8929.8	11272.3	18528.3	21761.7	21606.3	21768.1	20875.1	21183.6	20428.7	17835.9
70°	5802.2	6080.5	7605.5	17367.9	23040.7	25109.2	25104.9	23765.4	23168.0	21146.9	16714.4
72.5°	3902.0	4046.5	4939.5	13778.7	22100.2	27190.7	27065.6	25974.2	23836.6	19777.2	13655.8
75°	1645.7	1751.4	2286.4	7743.5	17484.3	24876.2	24537.7	22954.5	21179.3	15573.3	8520.0
77.5°	522.0	567.2	901.6	2771.7	9630.9	18698.8	18340.6	14335.2	14195.0	7812.6	3114.7
80°	248.0	289.0	506.9	1112.9	3789.8	10170.0	10120.4	6503.2	6106.3	2109.6	625.6
82.5°	107.8	127.3	280.4	595.3	1695.4	3628.0	3701.4	2213.1	1831.3	800.2	192.0
85°	34.5	45.3	129.5	274.0	716.1	901.6	890.8	526.3	737.7	435.7	66.8
87.5°	0.0	0.0	43.2	62.5	73.3	51.8	58.2	45.3	204.9	120.7	23.7
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°	3461.9	3461.9	3461.9	3461.9	3461.9	3461.9	3461.9	3461.9	3461.9	3461.9	3461.9
2.5°	3479.2	3444.7	3384.2	3328.2	3278.6	3229.0	3198.8	3155.7	3151.4	3151.4	3162.1
5°	3502.9	3446.9	3338.9	3224.6	3093.0	2968.0	2842.8	2722.1	2683.2	2655.3	2668.2
7.5°	3571.9	3483.5	3313.1	3095.3	2845.0	2571.1	2379.1	2172.1	2092.2	2049.1	2055.6
10°	3671.1	3550.4	3291.5	2909.8	2504.3	2131.1	1857.2	1632.8	1546.5	1509.8	1509.8
12.5°	3781.1	3632.3	3252.7	2678.9	2131.1	1684.6	1417.2	1313.6	1300.6	1300.6	1300.6
15°	3912.7	3731.5	3185.8	2407.2	1740.7	1333.0	1238.1	1242.4	1255.3	1264.0	1264.0
17.5°	4048.6	3837.3	3080.1	2103.0	1395.5	1199.2	1201.4	1207.9	1218.7	1227.3	1227.3
20°	4195.3	3943.0	2939.9	1779.5	1197.1	1160.4	1167.0	1173.4	1182.0	1186.3	1188.5
22.5°	4352.8	4042.2	2773.9	1462.5	1130.3	1128.1	1130.3	1136.7	1147.5	1147.5	1151.8
25°	4521.0	4152.2	2584.0	1231.6	1095.7	1095.7	1100.0	1104.3	1112.9	1112.9	1115.2
27.5°	4693.6	4253.5	2383.4	1110.8	1065.6	1063.3	1063.3	1069.9	1074.2	1076.4	1078.5
30°	4883.4	4372.1	2182.8	1085.0	1041.8	1031.0	1024.6	1028.9	1033.2	1035.4	1039.7
32.5°	5077.5	4486.5	2003.8	1095.7	1018.1	998.7	977.1	972.8	972.8	981.4	987.9
35°	5293.2	4611.6	1865.8	1132.4	1005.1	951.2	916.8	897.3	899.4	912.4	918.9
37.5°	5552.0	4762.6	1764.4	1164.8	996.5	897.3	841.2	817.5	802.4	817.5	813.1
40°	5890.7	4984.8	1691.0	1190.6	985.7	834.8	759.2	720.5	692.4	701.0	696.7
42.5°	6388.9	5334.2	1663.1	1192.8	962.0	761.4	675.2	623.4	582.4	584.6	575.9
45°	7087.8	5886.4	1807.6	1164.8	910.2	681.6	586.7	517.6	491.8	485.3	476.7
47.5°	8045.4	6690.9	2141.8	1106.5	834.8	603.9	500.4	442.2	422.8	411.9	405.5
50°	9328.8	7724.1	2512.9	1041.8	759.2	530.6	429.3	392.6	379.7	368.8	366.6
52.5°	10817.1	8772.4	2817.0	977.1	683.8	465.9	384.0	362.3	351.6	343.0	340.8
55°	12182.5	9495.0	2799.8	908.0	610.4	414.1	351.6	338.7	325.7	317.0	312.7
57.5°	13032.4	9596.4	2308.0	832.6	526.3	373.2	321.3	312.7	297.7	286.9	284.7
60°	13422.8	9018.3	1617.8	733.4	442.2	334.4	289.0	284.7	265.3	250.2	245.9
62.5°	13494.0	7944.1	1078.5	610.4	368.8	297.7	256.7	250.2	224.4	198.4	185.5
65°	13205.0	6408.3	746.3	476.7	314.9	258.8	220.0	207.0	179.1	153.1	144.5
67.5°	12290.4	4499.4	519.8	343.0	267.4	204.9	174.8	170.4	148.8	127.3	120.7
70°	10614.4	2564.7	347.3	256.7	211.4	140.2	138.1	142.4	120.7	103.5	94.9
72.5°	8138.2	1173.4	215.7	187.7	144.5	94.9	110.0	112.1	92.8	77.7	69.0
75°	4790.6	502.6	135.9	120.7	73.3	62.5	79.8	82.0	62.5	49.6	43.2
77.5°	1630.7	189.8	86.3	71.1	36.7	34.5	51.8	51.8	34.5	19.4	15.1
80°	370.9	71.1	43.2	28.1	17.2	15.1	17.2	15.1	8.6	2.2	0.0
82.5°	105.7	28.1	17.2	10.8	6.5	6.5	2.2	0.0	0.0	0.0	0.0
85°	30.2	12.9	4.3	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.9	2.2	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)