

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: P970897

Luminaire Tested: **NAV-SB6C-735-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970897
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6C-735-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36507.4 lumens
Efficiency: N/A
Efficacy: 121.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 300.9
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



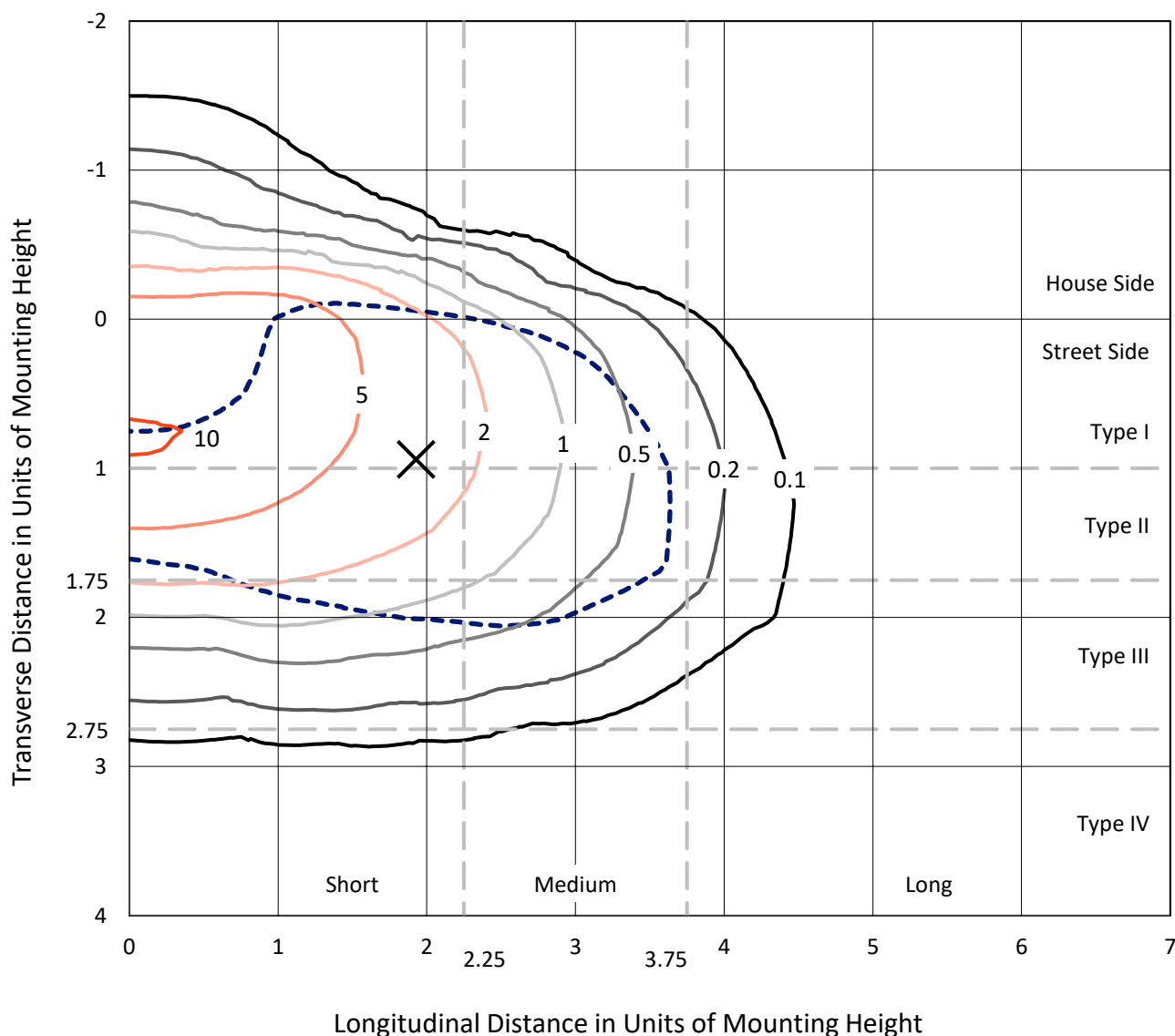
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



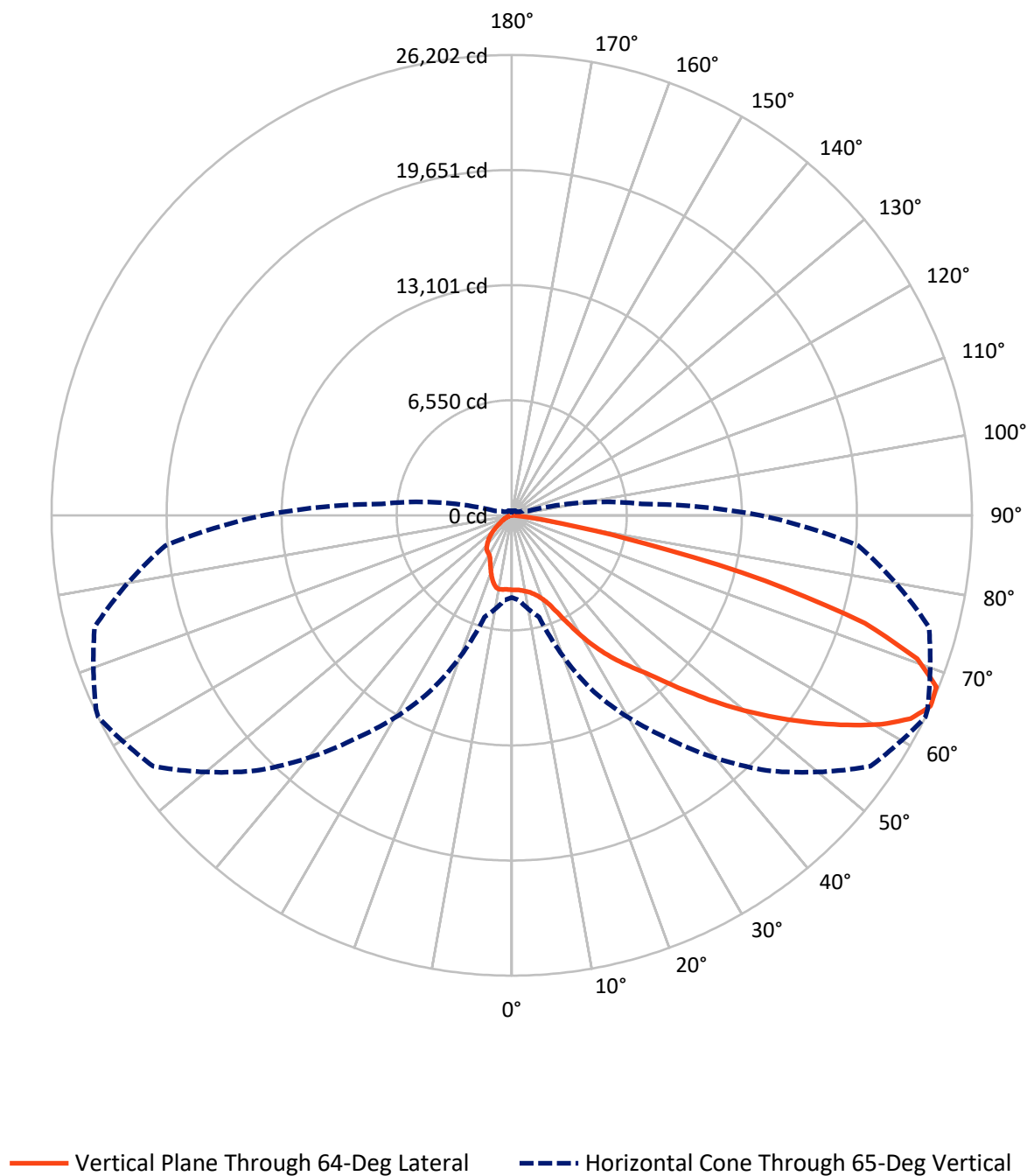
Based on 25 foot mounting height. Maximum calculated value = 10.7 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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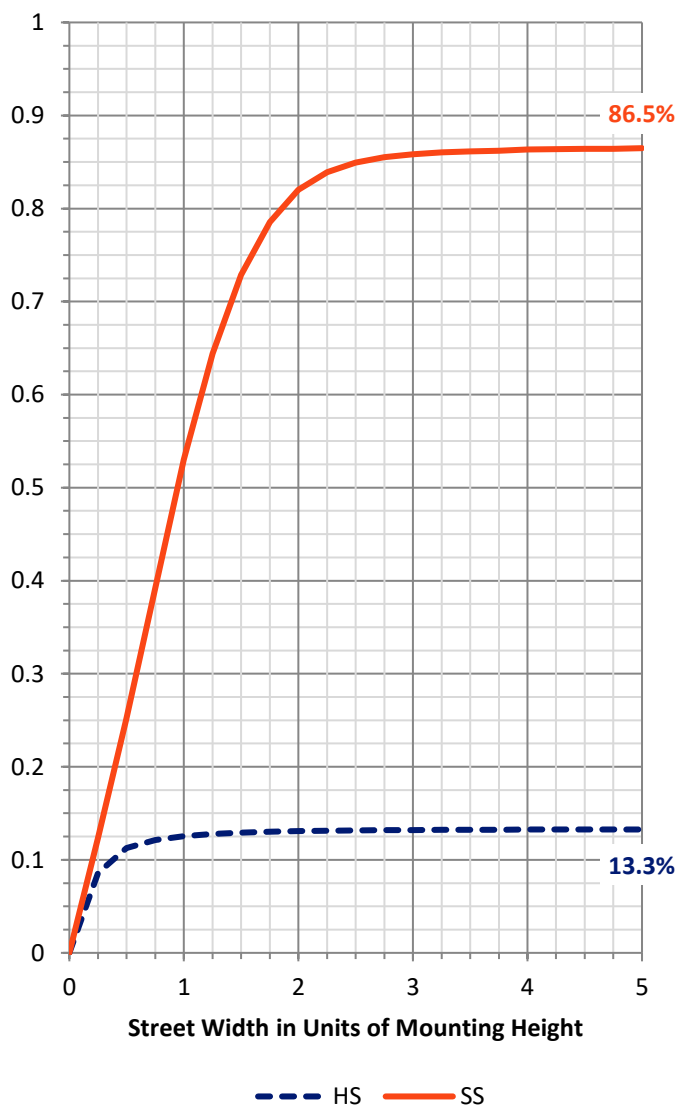
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4882.2	0.0	4882.2
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	31625.3	0.0	31625.3
	% Fixture	86.6	0.0	86.6
Total	Lumens	36507.4	0.0	36507.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	391.8	1.1
10°-20°	1062.6	2.9
20°-30°	2013.4	5.5
30°-40°	4074.2	11.2
40°-50°	6940.5	19.0
50°-60°	9438.6	25.9
60°-70°	8863.3	24.3
70°-80°	3551.0	9.7
80°-90°	172.0	0.5
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°	36507.4	100.0
0°-180°	36507.4	100.0

Coefficient of Utilization



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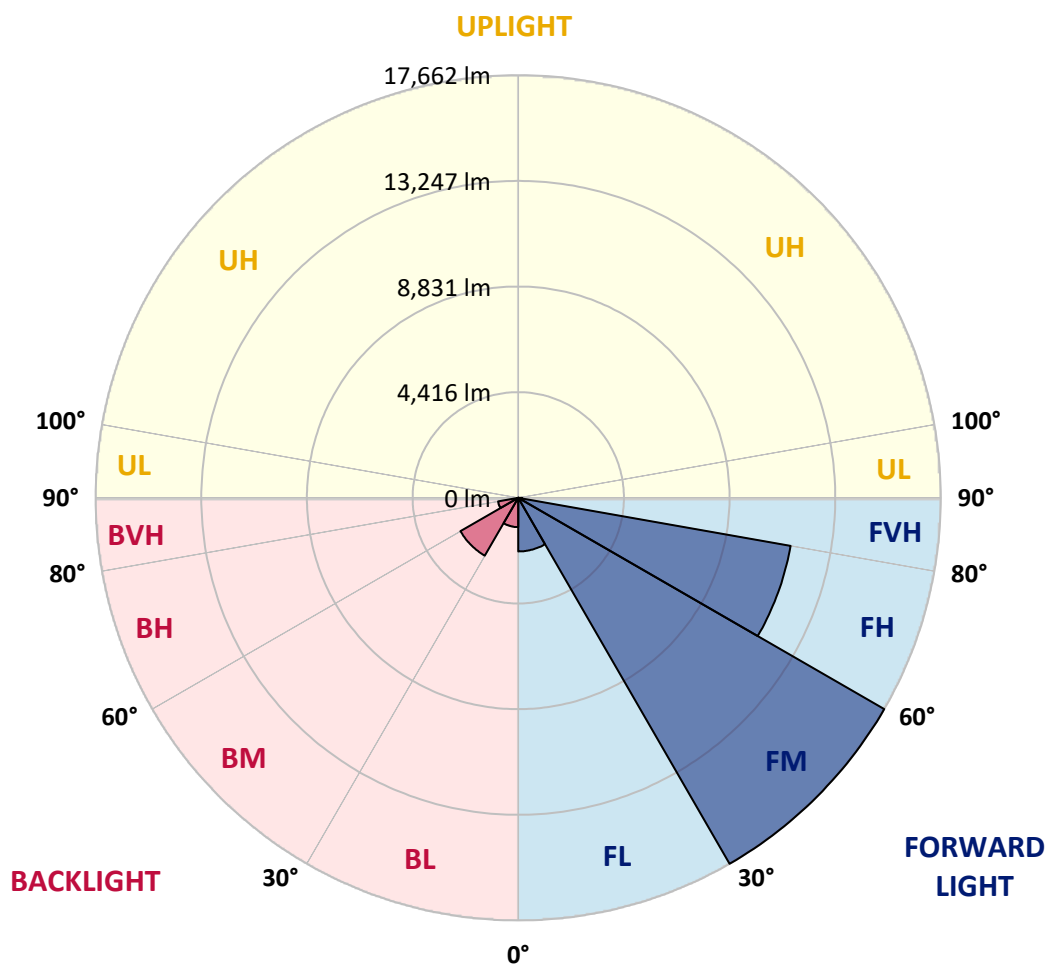
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2242.0	6.1			
FM	(30°-60°)	17662.2	48.4			
FH	(60°-80°)	11557.4	31.7			G4/12000
FVH	(80°-90°)	163.6	0.4			G2/225
BL	(0°-30°)	1225.8	3.4	B3/2500		
BM	(30°-60°)	2791.1	7.6	B3/5000		
BH	(60°-80°)	856.9	2.3	B2/1000		G2/1000
BVH	(80°-90°)	8.4	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	4246.2	4246.2	4246.2	4246.2	4246.2	4246.2	4246.2	4246.2	4246.2	4246.2	4246.2
2.5°	4231.5	4260.9	4253.5	4246.2	4243.7	4248.6	4251.1	4248.6	4248.6	4248.6	4251.1
5°	4150.7	4175.2	4175.2	4192.4	4216.8	4246.2	4268.2	4273.1	4278.0	4285.3	4282.9
7.5°	3996.6	4016.2	4030.8	4087.1	4148.3	4226.6	4292.7	4326.9	4331.9	4358.8	4368.5
10°	3891.3	3915.8	3940.3	3999.0	4087.1	4204.5	4317.2	4400.4	4412.6	4476.3	4505.6
12.5°	3886.4	3910.9	3942.8	4006.3	4109.1	4234.0	4371.0	4490.9	4513.0	4605.9	4667.1
15°	3937.8	3967.2	3996.6	4074.9	4185.0	4336.8	4483.6	4632.9	4654.9	4787.1	4853.2
17.5°	4043.0	4082.3	4104.2	4182.5	4300.1	4468.9	4662.2	4833.6	4853.2	5007.3	5090.6
20°	4251.1	4297.6	4304.9	4368.5	4483.6	4664.7	4894.8	5107.7	5132.2	5308.4	5401.3
22.5°	4681.8	4747.9	4689.2	4720.9	4823.8	5004.9	5254.6	5523.7	5558.0	5758.7	5841.9
25°	5440.5	5533.5	5381.8	5328.0	5372.0	5560.4	5873.7	6213.9	6253.0	6414.6	6456.2
27.5°	6930.9	6811.0	6581.0	6355.8	6223.7	6331.3	6683.8	7104.7	7153.7	7310.3	7261.4
30°	8568.3	8463.0	8152.2	7653.0	7339.7	7322.5	7648.0	8117.9	8174.3	8323.5	8174.3
32.5°	10208.0	10107.6	9769.9	9155.6	8612.4	8343.1	8568.3	9089.5	9118.9	9214.3	8994.1
35°	11820.8	11718.0	11380.3	10751.3	10083.1	9471.3	9427.2	10014.7	10024.4	10124.7	9796.8
37.5°	13443.4	13357.8	12998.0	12381.3	11722.9	10878.5	10469.9	10890.8	10903.0	11000.9	10660.7
40°	14601.0	14637.7	14390.6	13913.4	13348.0	12425.4	11639.7	11823.3	11749.9	11913.8	11710.7
42.5°	15594.7	15668.0	15452.7	15212.8	14884.9	14072.4	13088.5	13056.8	12939.3	13027.3	12816.9
45°	16453.7	16514.9	16321.5	16265.2	16257.9	15687.6	14672.0	14481.1	14317.1	14300.0	14047.9
47.5°	16769.4	16886.9	16970.1	17158.5	17525.7	17285.8	16309.3	16013.2	15829.6	15695.0	15296.1
50°	16889.3	17014.2	17298.0	17846.3	18715.1	18817.9	17939.2	17606.4	17381.2	17136.5	16549.1
52.5°	16727.8	16950.5	17332.3	18254.9	19515.4	20046.4	19503.1	19211.9	18954.9	18556.0	17684.7
55°	15775.8	15998.5	16779.1	18250.0	19914.3	20907.9	20981.3	20851.6	20562.8	19933.9	18602.5
57.5°	13768.9	14099.3	15335.2	17628.5	19906.9	21649.4	22430.2	22523.1	22200.2	21299.5	19324.4
60°	10988.7	11436.5	12944.1	16250.6	19292.7	22050.8	23700.4	24165.4	23822.7	22645.5	19909.4
62.5°	7667.6	8186.5	9613.3	14092.0	17887.9	21762.1	24627.9	25486.9	25227.5	23849.7	20134.6
65°	4677.0	4843.3	5993.6	11089.1	15499.2	20553.0	24914.3	26201.6	26115.9	24586.3	19801.7
67.5°	3115.5	3255.0	3585.4	7604.0	12031.2	18137.5	24228.9	26076.7	26101.2	24466.3	18582.9
70°	1877.2	1997.0	2212.5	4422.4	7797.4	14356.3	22107.1	24486.0	24627.9	22863.3	16272.6
72.5°	773.4	854.1	1049.9	2004.4	4038.2	9111.5	17604.0	21023.0	21353.3	19224.1	12488.9
75°	438.1	479.7	616.7	1005.8	1752.3	4246.2	10663.2	14924.1	15411.1	13250.1	7513.5
77.5°	291.2	310.8	398.9	651.0	986.3	1448.8	4557.0	7775.3	8705.3	7236.9	3252.5
80°	195.8	212.9	274.1	435.6	641.2	621.7	1451.3	2880.6	3543.8	2486.5	792.9
82.5°	132.1	134.6	195.8	286.4	406.3	301.0	428.2	895.7	1125.8	719.6	301.0
85°	75.8	73.4	144.4	166.5	181.1	124.8	129.7	269.2	352.4	303.5	171.3
87.5°	9.8	14.7	56.3	44.1	24.5	27.0	27.0	46.5	68.6	73.4	36.7
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°	4246.2	4246.2	4246.2	4246.2	4246.2	4246.2	4246.2	4246.2	4246.2	4246.2	4246.2
2.5°	4251.1	4248.6	4241.3	4234.0	4216.8	4207.0	4211.9	4207.0	4204.5	4207.0	4216.8
5°	4282.9	4275.6	4256.0	4231.5	4197.3	4155.7	4128.7	4089.5	4052.8	4030.8	4035.7
7.5°	4368.5	4361.2	4334.3	4265.7	4155.7	3981.9	3822.8	3683.3	3578.1	3516.9	3519.3
10°	4505.6	4493.4	4451.8	4300.1	4011.2	3631.9	3316.2	3054.3	2883.0	2802.2	2794.9
12.5°	4667.1	4652.5	4579.1	4268.2	3737.2	3144.9	2709.3	2418.0	2258.9	2188.0	2180.6
15°	4858.0	4838.4	4694.1	4116.5	3338.2	2606.5	2207.5	1989.7	1886.9	1823.3	1825.7
17.5°	5095.5	5061.1	4779.7	3888.8	2905.1	2195.3	1899.1	1735.2	1644.6	1583.4	1578.6
20°	5403.8	5347.5	4848.2	3617.2	2506.1	1935.9	1691.1	1554.1	1485.5	1431.7	1421.9
22.5°	5834.5	5753.7	4931.5	3323.6	2224.7	1757.3	1537.0	1436.6	1380.4	1319.2	1309.3
25°	6368.0	6272.6	5034.3	3051.8	2031.3	1603.0	1424.3	1341.1	1275.1	1204.1	1196.8
27.5°	7114.5	6943.2	5156.6	2829.2	1864.9	1470.9	1321.5	1228.6	1152.7	1094.0	1081.8
30°	7946.6	7665.2	5264.3	2694.5	1713.2	1348.5	1186.9	1094.0	1023.1	981.4	974.1
32.5°	8734.6	8352.9	5335.2	2635.8	1576.1	1209.0	1040.2	939.8	885.9	873.7	881.1
35°	9478.7	8974.5	5328.0	2579.5	1453.8	1069.5	895.7	792.9	751.3	758.7	758.7
37.5°	10335.3	9637.8	5276.5	2491.5	1353.4	942.3	770.9	680.4	643.7	646.1	655.9
40°	11331.4	10403.8	5244.7	2325.0	1243.2	824.7	668.1	594.7	567.7	558.0	555.6
42.5°	12393.5	11145.3	5249.6	2136.5	1106.2	719.6	597.2	536.0	511.5	504.2	501.7
45°	13460.5	11852.6	5256.9	1940.7	961.9	638.8	545.8	494.4	479.7	469.9	469.9
47.5°	14464.0	12454.7	5119.9	1730.3	819.9	577.6	504.2	469.9	457.7	445.5	445.5
50°	15398.9	12856.1	4789.5	1485.5	707.2	528.6	472.3	447.8	435.6	423.4	423.4
52.5°	16125.7	12919.7	4243.7	1233.5	628.9	491.9	452.7	430.7	416.0	403.8	401.4
55°	16448.8	12520.8	3467.9	998.6	567.7	460.1	433.2	411.1	394.0	381.8	379.4
57.5°	16365.6	11681.3	2704.4	802.8	509.0	428.2	408.7	394.0	374.4	354.9	352.4
60°	15956.9	10558.0	2038.6	668.1	455.2	394.0	381.8	369.5	342.7	313.2	308.3
62.5°	15249.5	9145.9	1453.8	553.1	396.5	354.9	349.9	340.2	301.0	247.2	242.3
65°	14167.9	7430.2	979.0	460.1	340.2	310.8	313.2	296.1	244.8	183.6	178.7
67.5°	12586.8	5433.2	626.5	376.9	283.9	259.4	261.9	252.0	208.1	156.6	149.2
70°	10572.7	3597.6	408.7	286.4	227.7	200.7	215.4	217.8	176.2	127.3	122.4
72.5°	7750.8	2124.3	286.4	212.9	166.5	139.5	176.2	181.1	142.0	95.4	90.5
75°	4417.5	1008.3	215.4	154.2	102.8	97.9	137.0	137.0	97.9	63.7	58.7
77.5°	1855.1	421.0	151.7	100.3	58.7	56.3	93.0	85.7	49.0	29.4	29.4
80°	536.0	188.5	80.8	49.0	24.5	22.0	36.7	27.0	12.2	4.9	4.9
82.5°	210.4	83.2	31.8	19.6	9.8	9.8	4.9	0.0	0.0	0.0	0.0
85°	124.8	34.2	14.7	7.4	2.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	31.8	7.4	4.9	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)