

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: P970934

Luminaire Tested: **NAV-SB6C-740-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970934
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-SB6C-740-U-T4W-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 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: 37935.2 lumens
Efficiency: N/A
Efficacy: 126.1 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): 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

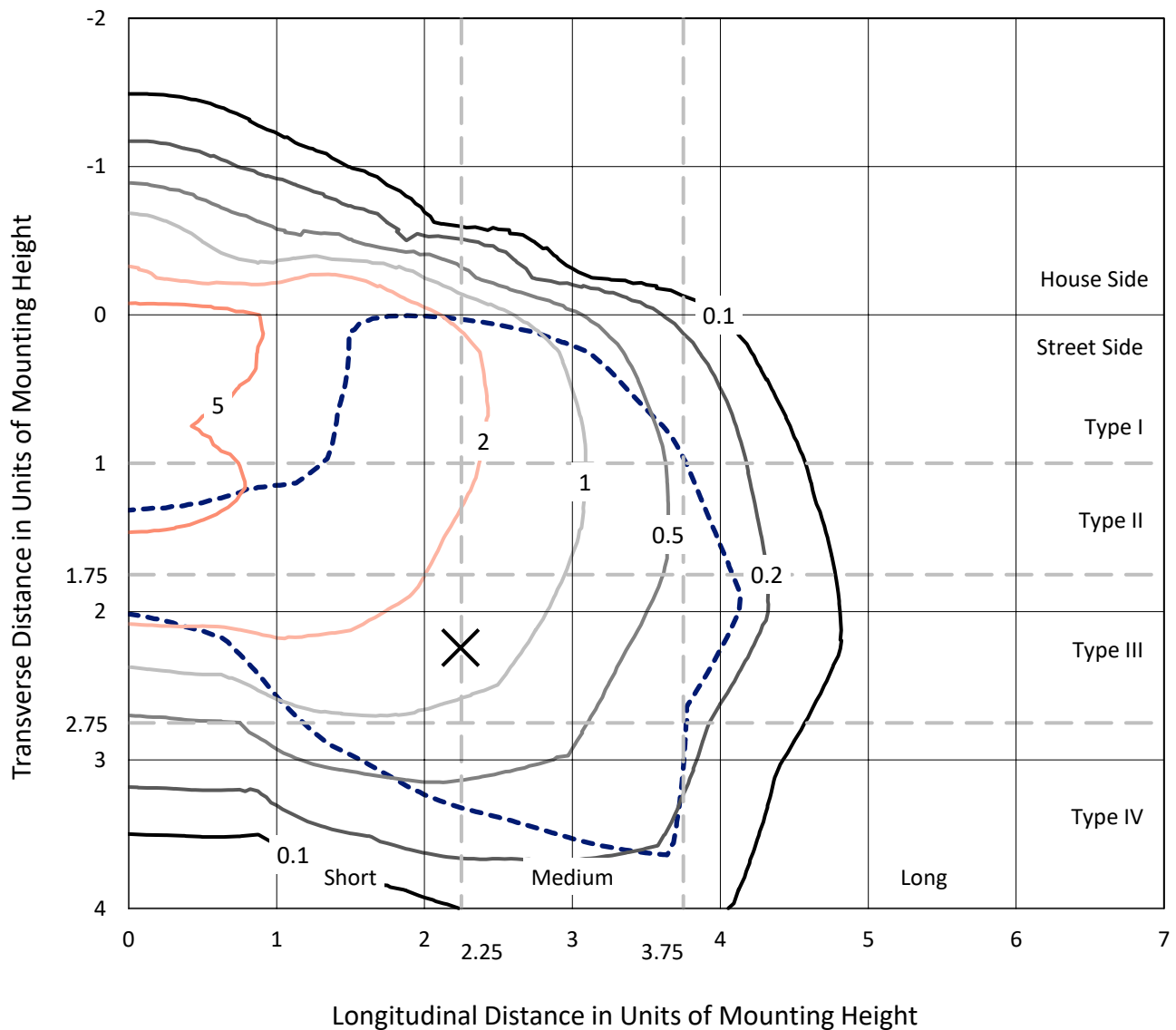


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Iso-Footcandle Lines of Horizontal Illumination

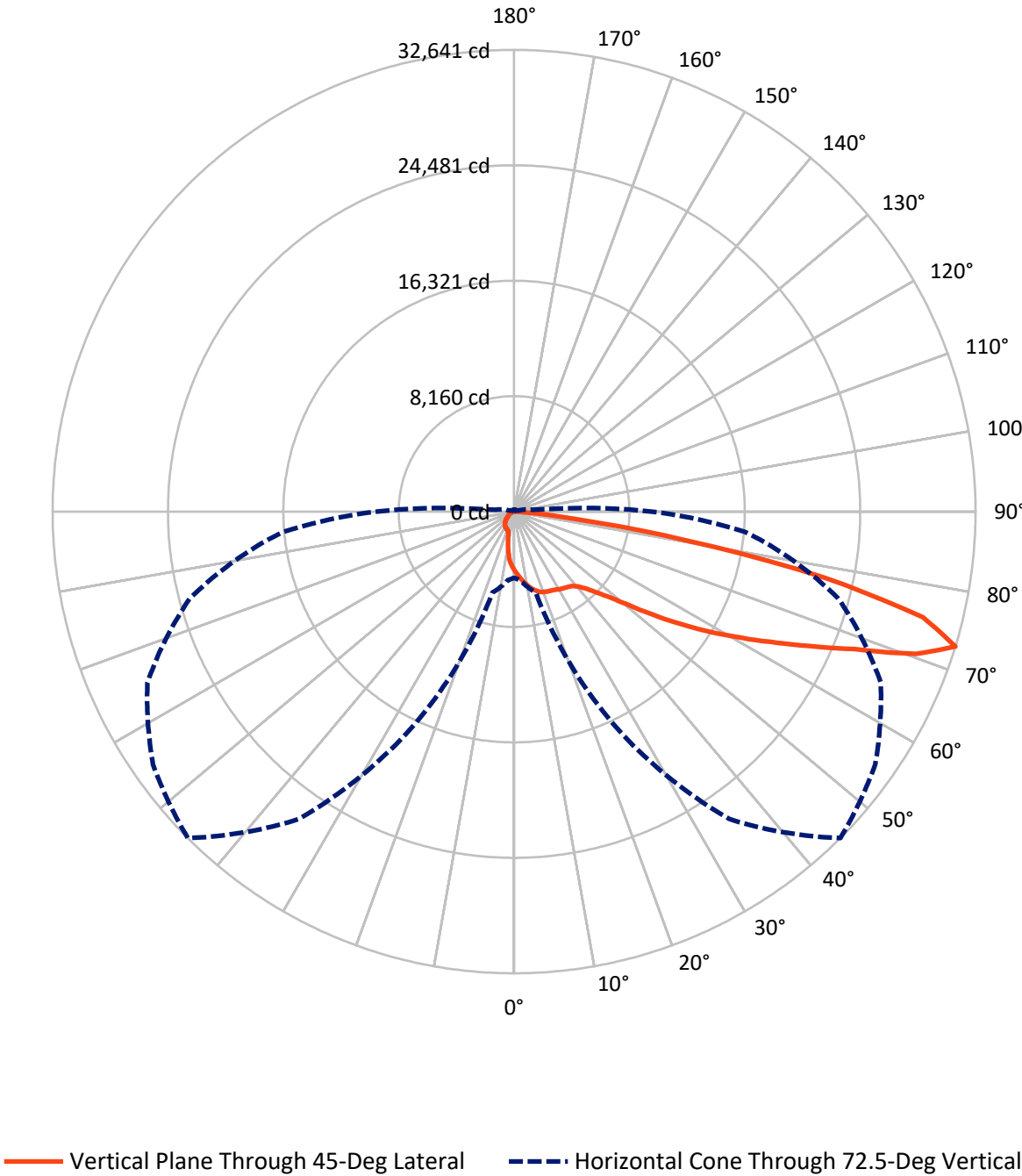
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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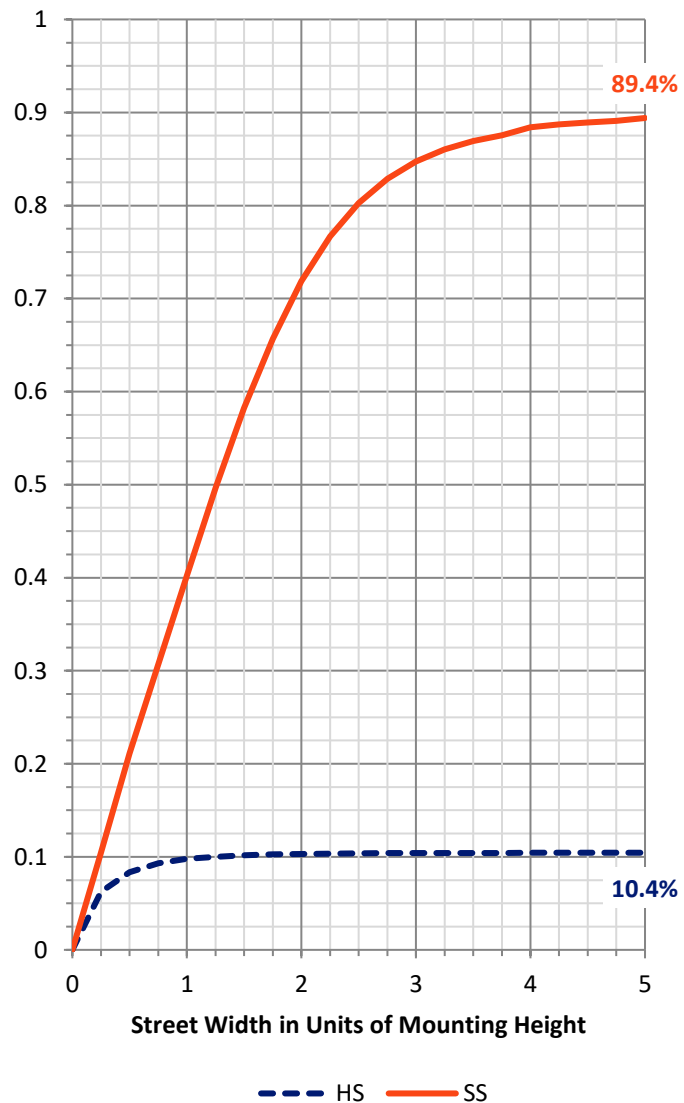
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3985.9	0.0	3985.9
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	33949.3	0.0	33949.3
	% Fixture	89.5	0.0	89.5
Total	Lumens	37935.2	0.0	37935.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	391.6	1.0
10°-20°	1144.4	3.0
20°-30°	1879.3	5.0
30°-40°	2665.2	7.0
40°-50°	4405.4	11.6
50°-60°	7913.7	20.9
60°-70°	10988.6	29.0
70°-80°	7970.8	21.0
80°-90°	576.3	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°	37935.2	100.0
0°-180°	37935.2	100.0

Coefficient of Utilization



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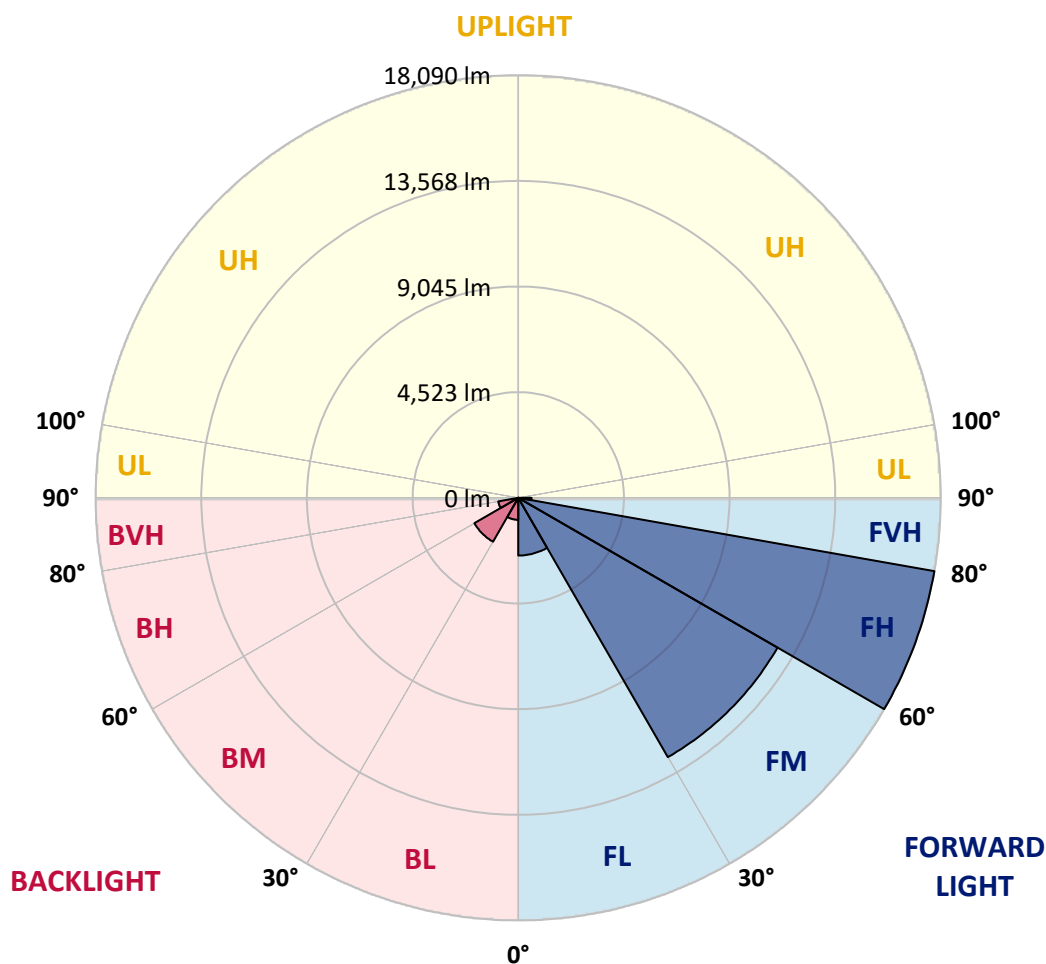
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2471.1	6.5			
FM	(30°-60°)	12816.5	33.8			
FH	(60°-80°)	18090.2	47.7			G5
FVH	(80°-90°)	571.4	1.5			G4/750
BL	(0°-30°)	944.1	2.5	B2/1000		
BM	(30°-60°)	2167.8	5.7	B2/2500		
BH	(60°-80°)	869.2	2.3	B2/1000		G2/1000
BVH	(80°-90°)	4.8	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°	4155.9	4155.9	4155.9	4155.9	4155.9	4155.9	4155.9	4155.9	4155.9	4155.9	4155.9
2.5°	4539.1	4546.9	4541.7	4510.6	4458.9	4430.4	4414.8	4363.0	4329.4	4269.8	4207.6
5°	4956.0	4987.0	4968.9	4906.8	4808.4	4738.5	4717.8	4611.6	4515.8	4404.4	4275.0
7.5°	5398.8	5414.3	5380.6	5300.4	5168.4	5049.3	5031.1	4883.5	4730.7	4559.8	4383.7
10°	5782.0	5800.2	5748.3	5631.8	5481.6	5334.0	5308.2	5145.0	4963.8	4754.1	4528.8
12.5°	6103.1	6121.2	6053.9	5914.0	5748.3	5595.6	5569.6	5398.8	5199.4	4966.3	4686.7
15°	6346.5	6380.1	6289.5	6139.3	5960.7	5807.9	5794.9	5626.6	5432.4	5173.5	4875.7
17.5°	6488.9	6522.6	6437.1	6255.9	6103.1	5973.6	5958.0	5818.2	5637.0	5388.4	5059.6
20°	6512.2	6543.3	6452.6	6294.7	6167.8	6064.2	6056.4	5955.5	5823.4	5585.2	5259.0
22.5°	6442.2	6481.1	6398.3	6271.4	6183.3	6129.0	6118.6	6061.6	5986.5	5784.6	5445.4
25°	6369.8	6400.8	6338.7	6227.4	6180.7	6175.5	6183.3	6173.0	6157.5	5986.5	5662.9
27.5°	6364.6	6398.3	6328.3	6222.2	6196.3	6250.7	6258.4	6307.6	6320.6	6170.4	5872.6
30°	6408.6	6431.9	6364.6	6253.2	6240.3	6364.6	6367.2	6455.2	6476.0	6325.8	6079.8
32.5°	6504.4	6530.3	6463.0	6299.9	6281.7	6455.2	6463.0	6579.5	6613.2	6491.4	6297.3
35°	6729.7	6760.8	6683.1	6429.3	6364.6	6540.6	6564.0	6701.2	6768.5	6667.5	6522.6
37.5°	7291.5	7200.9	7094.7	6690.9	6553.6	6675.3	6714.2	6874.7	6993.8	6877.2	6791.9
40°	8687.2	8402.4	8071.0	7136.3	6885.0	6962.7	6993.8	7154.3	7317.5	7203.5	7162.1
42.5°	10782.0	10445.4	9912.0	8161.6	7384.8	7423.7	7446.9	7586.7	7817.2	7726.6	7736.9
45°	12648.9	12527.2	11983.5	9912.0	8319.5	8127.9	8156.4	8228.9	8568.1	8534.5	8601.8
47.5°	14083.4	14013.5	13594.1	11921.3	9899.0	8990.2	9070.4	9104.2	9593.5	9712.6	9893.8
50°	15186.5	15160.6	14785.1	13707.9	11962.8	10261.6	10290.1	10217.5	10950.3	11245.5	11589.9
52.5°	16227.4	16315.4	16038.4	15367.7	14166.2	11926.5	11921.3	11579.5	12568.7	13014.0	13601.7
55°	17167.3	17198.4	17226.9	17061.1	16382.8	13821.9	13772.7	13213.4	14445.9	14906.8	15543.8
57.5°	18050.2	18063.3	18317.0	18656.2	18689.8	15857.1	15766.4	15095.8	16496.7	16825.5	17216.5
60°	18643.2	18702.8	19238.7	20181.3	20593.0	17957.1	17907.9	17224.3	18583.7	18736.5	18663.9
62.5°	17788.8	18151.2	19502.9	21372.4	22390.0	20284.9	20261.6	19619.4	20779.4	20655.2	20033.7
65°	14399.3	15013.0	17389.9	22177.7	24153.3	22884.6	22918.2	22234.6	23034.7	22630.8	21147.1
67.5°	10072.6	10719.9	13531.8	22242.4	26123.9	25937.4	26131.6	25059.6	25429.8	24523.6	21411.2
70°	6965.3	7299.3	9130.0	20849.3	27659.3	30142.5	30137.3	28529.3	27812.0	25385.9	20064.8
72.5°	4684.1	4857.6	5929.6	16540.7	26530.4	32641.2	32491.0	31180.8	28614.8	23741.7	16393.1
75°	1975.7	2102.6	2744.7	9295.7	20989.1	29862.9	29456.3	27555.7	25424.7	18695.0	10227.9
77.5°	626.6	681.0	1082.3	3327.3	11561.4	22447.0	22017.1	17208.7	17040.4	9378.5	3739.0
80°	297.8	347.0	608.5	1336.1	4549.5	12208.8	12149.2	7806.8	7330.4	2532.4	750.9
82.5°	129.5	152.7	336.6	714.6	2035.2	4355.2	4443.3	2656.7	2198.3	960.6	230.4
85°	41.4	54.3	155.4	328.8	859.7	1082.3	1069.4	631.8	885.6	523.1	80.3
87.5°	0.0	0.0	51.8	75.1	88.0	62.1	69.9	54.3	246.0	145.0	28.5
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°	4155.9	4155.9	4155.9	4155.9	4155.9	4155.9	4155.9	4155.9	4155.9	4155.9	4155.9
2.5°	4176.6	4135.2	4062.7	3995.3	3935.8	3876.2	3840.0	3788.2	3783.1	3783.1	3796.0
5°	4205.1	4137.7	4008.3	3871.0	3713.1	3562.9	3412.7	3267.7	3221.2	3187.4	3203.0
7.5°	4288.0	4181.8	3977.2	3715.7	3415.3	3086.5	2856.1	2607.5	2511.7	2459.9	2467.7
10°	4407.1	4262.1	3951.4	3493.0	3006.2	2558.3	2229.4	1960.1	1856.6	1812.5	1812.5
12.5°	4539.1	4360.5	3904.7	3215.9	2558.3	2022.2	1701.2	1576.9	1561.4	1561.4	1561.4
15°	4697.1	4479.6	3824.5	2889.7	2089.6	1600.2	1486.2	1491.5	1507.0	1517.3	1517.3
17.5°	4860.1	4606.5	3697.6	2524.6	1675.3	1439.7	1442.3	1450.1	1463.0	1473.3	1473.3
20°	5036.2	4733.3	3529.3	2136.2	1437.0	1393.1	1400.9	1408.6	1418.9	1424.1	1426.7
22.5°	5225.2	4852.5	3329.9	1755.6	1356.8	1354.2	1356.8	1364.6	1377.5	1377.5	1382.7
25°	5427.3	4984.5	3102.1	1478.6	1315.4	1315.4	1320.6	1325.7	1336.1	1336.1	1338.6
27.5°	5634.4	5106.1	2861.2	1333.5	1279.1	1276.5	1276.5	1284.3	1289.4	1292.1	1294.7
30°	5862.3	5248.6	2620.4	1302.5	1250.6	1237.7	1229.9	1235.1	1240.2	1242.9	1248.0
32.5°	6095.3	5385.9	2405.5	1315.4	1222.2	1198.8	1173.0	1167.8	1167.8	1178.1	1185.9
35°	6354.3	5536.0	2239.7	1359.4	1206.6	1141.8	1100.4	1077.2	1079.7	1095.3	1103.1
37.5°	6665.0	5717.2	2118.1	1398.2	1196.3	1077.2	1009.8	981.3	963.2	981.3	976.2
40°	7071.5	5984.0	2030.0	1429.4	1183.4	1002.0	911.4	864.8	831.2	841.5	836.4
42.5°	7669.7	6403.5	1996.4	1431.9	1154.9	914.0	810.5	748.4	699.2	701.7	691.4
45°	8508.5	7066.4	2169.8	1398.2	1092.6	818.3	704.3	621.5	590.4	582.6	572.3
47.5°	9658.3	8032.1	2571.2	1328.3	1002.0	725.0	600.8	530.8	507.5	494.6	486.8
50°	11198.8	9272.5	3016.6	1250.6	911.4	636.9	515.3	471.3	455.7	442.8	440.2
52.5°	12985.5	10530.8	3381.7	1173.0	820.8	559.3	460.9	435.0	422.1	411.7	409.1
55°	14624.6	11398.3	3361.0	1090.1	732.8	497.1	422.1	406.5	391.0	380.6	375.5
57.5°	15644.8	11520.0	2770.6	999.5	631.8	447.9	385.8	375.5	357.3	344.4	341.8
60°	16113.4	10826.0	1942.0	880.4	530.8	401.4	347.0	341.8	318.5	300.3	295.2
62.5°	16198.9	9536.5	1294.7	732.8	442.8	357.3	308.1	300.3	269.3	238.2	222.7
65°	15851.9	7692.9	896.0	572.3	378.0	310.7	264.1	248.6	214.9	183.9	173.5
67.5°	14754.1	5401.3	624.0	411.7	321.0	246.0	209.7	204.6	178.7	152.7	145.0
70°	12742.1	3078.7	416.9	308.1	253.8	168.3	165.7	170.9	145.0	124.3	114.0
72.5°	9769.6	1408.6	258.9	225.3	173.5	114.0	132.0	134.7	111.3	93.2	82.8
75°	5751.0	603.3	163.1	145.0	88.0	75.1	95.8	98.4	75.1	59.6	51.8
77.5°	1957.5	227.9	103.5	85.5	44.0	41.4	62.1	62.1	41.4	23.3	18.1
80°	445.4	85.5	51.8	33.6	20.7	18.1	20.7	18.1	10.4	2.6	0.0
82.5°	126.9	33.6	20.7	12.9	7.8	7.8	2.6	0.0	0.0	0.0	0.0
85°	36.3	15.6	5.2	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.6	2.6	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)