

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: P968822

Luminaire Tested: **NAV-SB5C-740-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968822
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB5C-740-U-T3R
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42115.2 lumens
Efficiency: N/A
Efficacy: 168.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - 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

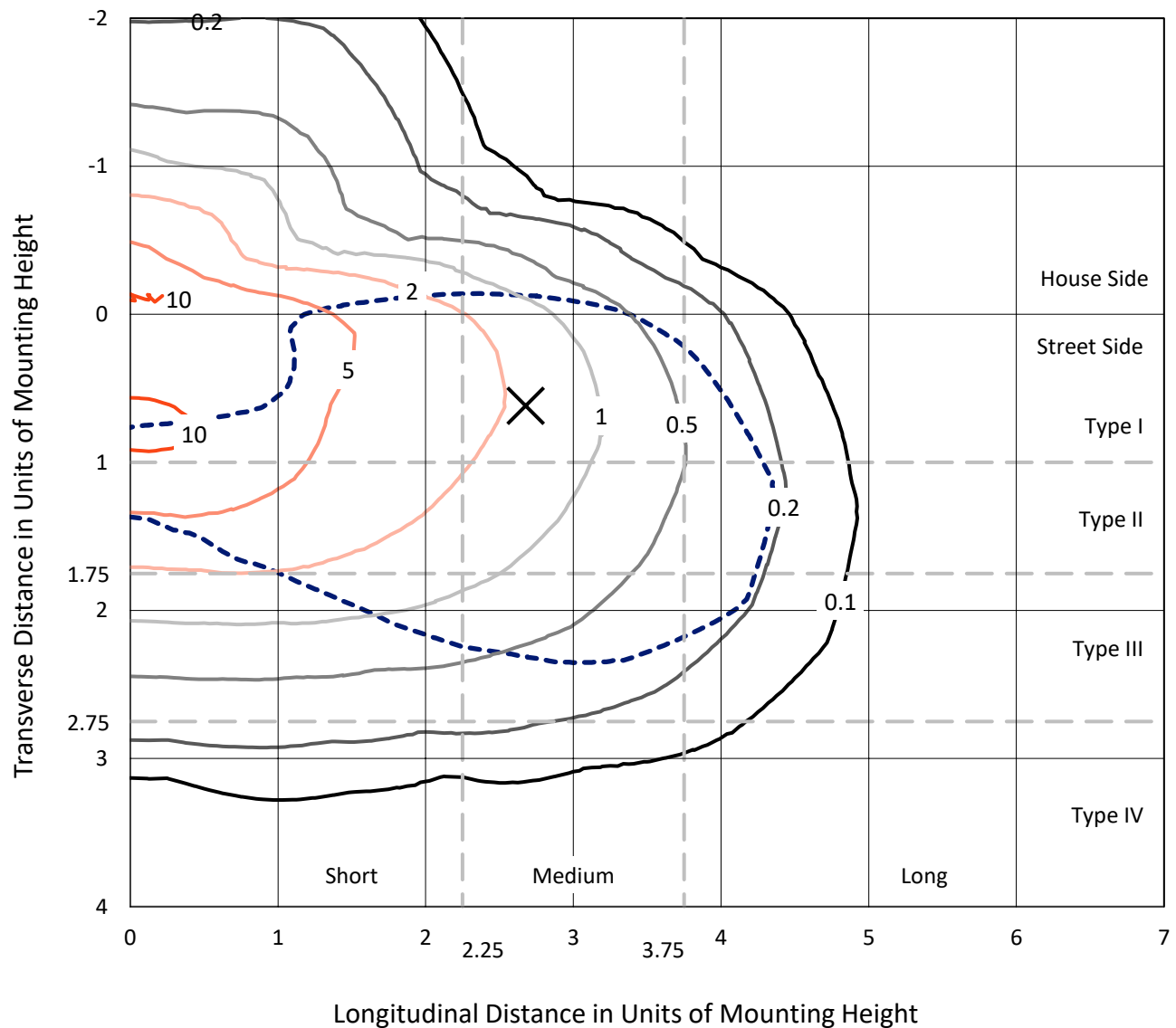


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

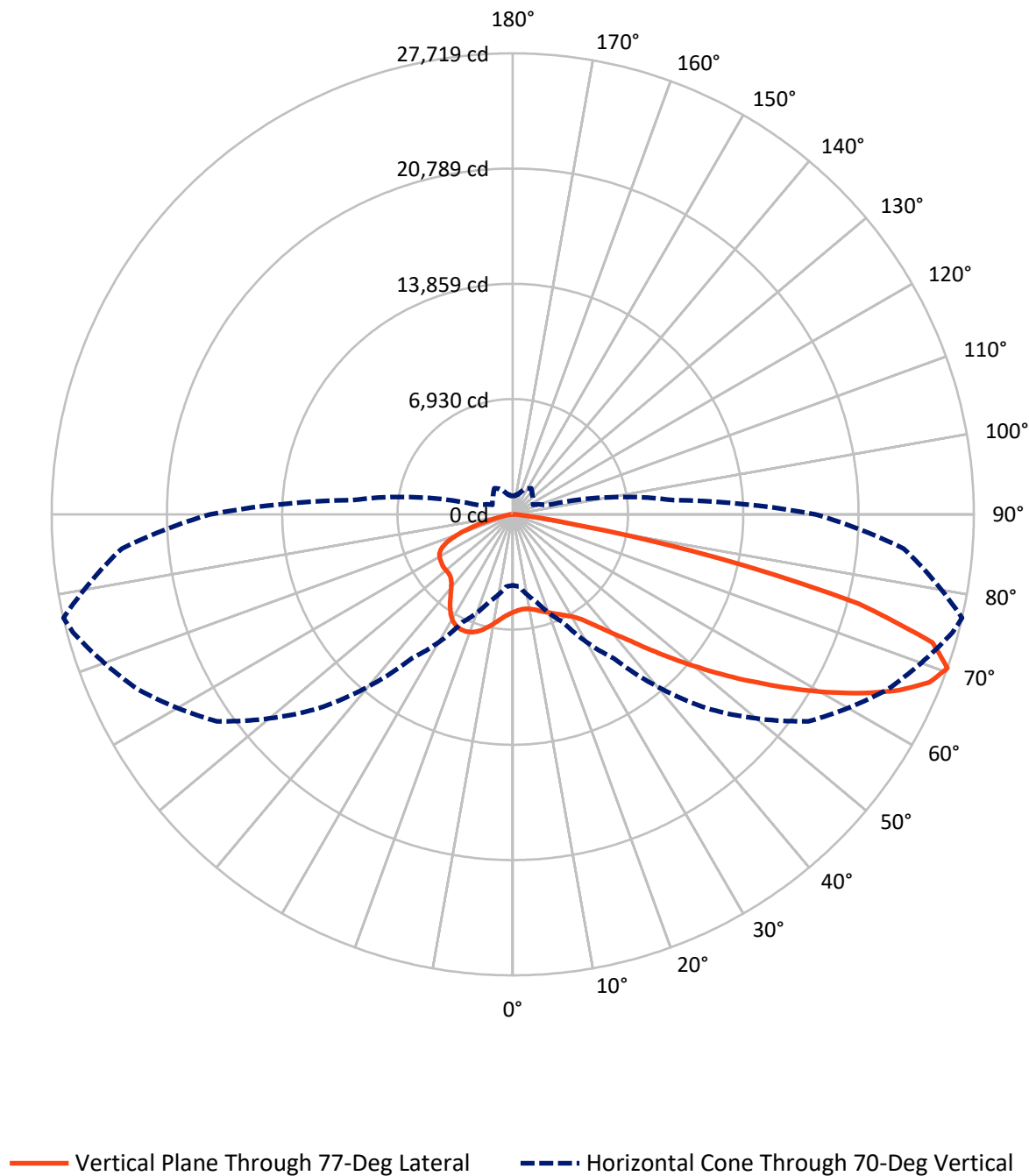


Based on 25 foot mounting height. Maximum calculated value = 11.2 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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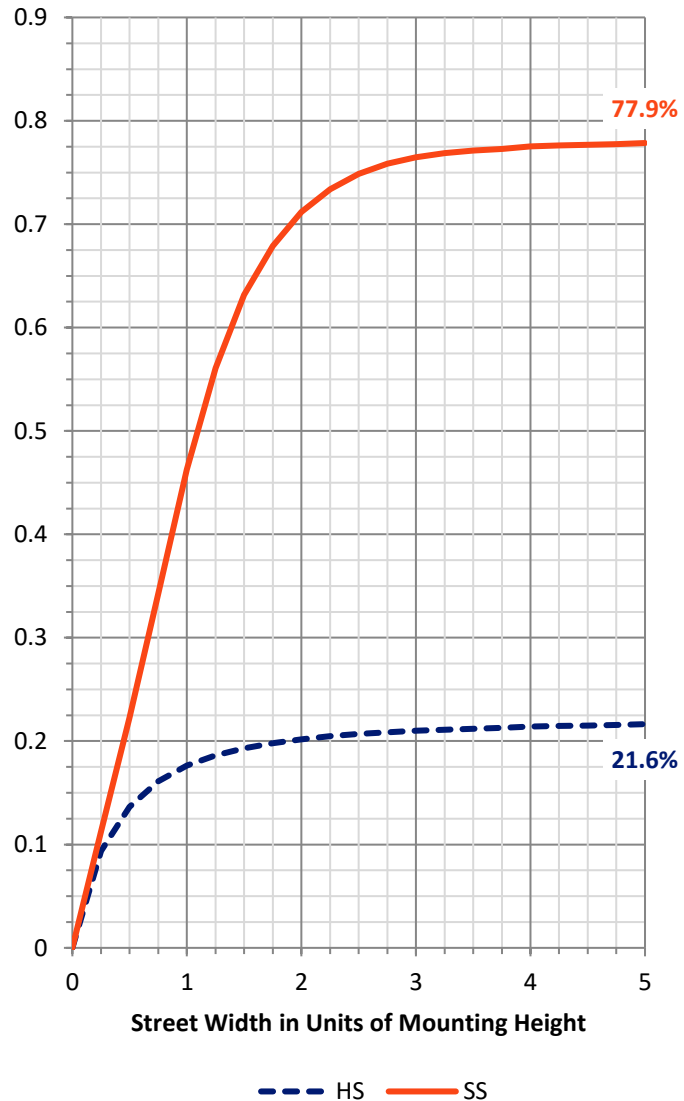
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9222.6	0.0	9222.6
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	32892.6	0.0	32892.6
	% Fixture	78.1	0.0	78.1
Total	Lumens	42115.2	0.0	42115.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	560.4	1.3
10°-20°	1617.3	3.8
20°-30°	2765.7	6.6
30°-40°	4447.6	10.6
40°-50°	6943.8	16.5
50°-60°	9275.3	22.0
60°-70°	9886.0	23.5
70°-80°	6085.8	14.5
80°-90°	533.3	1.3
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°	42115.2	100.0
0°-180°	42115.2	100.0

Coefficient of Utilization



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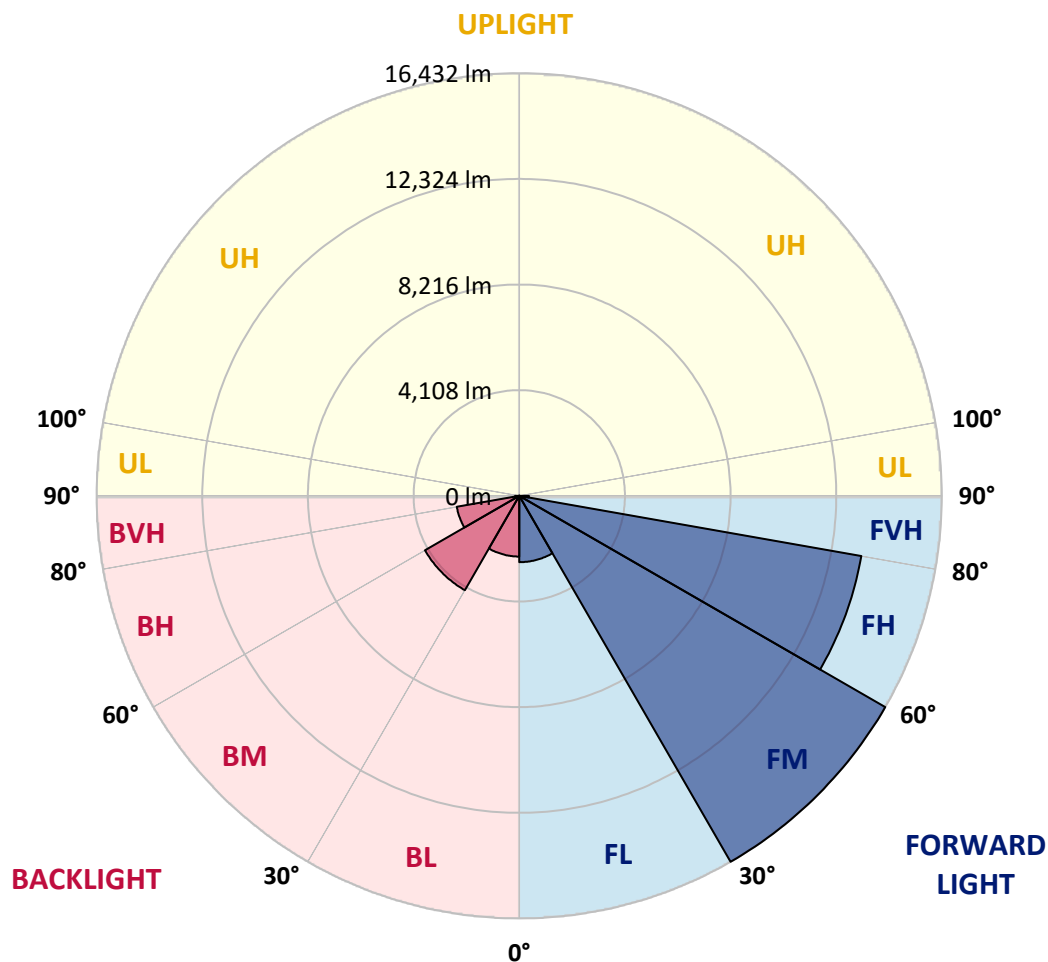
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2580.2	6.1			
FM	(30°-60°)	16432.4	39.0			
FH	(60°-80°)	13507.0	32.1			G5
FVH	(80°-90°)	372.9	0.9			G3/500
BL	(0°-30°)	2363.1	5.6	B3/2500		
BM	(30°-60°)	4234.3	10.1	B3/5000		
BH	(60°-80°)	2464.8	5.9	B3/2500		G3/2500
BVH	(80°-90°)	160.4	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	5875.5	5875.5	5875.5	5875.5	5875.5	5875.5	5875.5	5875.5	5875.5	5875.5	5875.5
2.5°	5416.0	5413.8	5441.9	5450.5	5502.3	5539.0	5608.0	5681.4	5776.3	5787.0	5845.3
5°	5103.3	5103.3	5135.7	5170.1	5237.0	5310.3	5416.0	5543.3	5707.2	5733.1	5877.7
7.5°	4838.0	4855.2	4883.3	4950.1	5027.8	5133.5	5295.3	5476.5	5692.1	5733.1	5966.0
10°	4624.4	4643.9	4678.4	4732.3	4848.8	4995.4	5206.8	5439.8	5728.8	5793.5	6095.5
12.5°	4557.6	4577.0	4596.4	4637.4	4745.2	4917.7	5170.1	5457.0	5817.2	5882.0	6272.3
15°	4712.8	4736.6	4721.5	4710.7	4766.8	4924.2	5187.4	5519.5	5927.3	6019.9	6490.2
17.5°	5070.9	5079.6	5045.0	4943.7	4935.1	5019.1	5269.3	5605.8	6065.2	6166.6	6710.2
20°	5649.0	5633.9	5562.7	5362.1	5247.8	5230.6	5409.5	5735.3	6207.6	6315.4	6947.4
22.5°	6434.1	6416.8	6274.4	5957.4	5702.9	5534.7	5612.3	5903.5	6367.2	6488.0	7178.3
25°	7413.3	7389.6	7180.4	6749.0	6354.3	5938.0	5888.4	6125.7	6563.5	6675.7	7419.8
27.5°	8556.5	8537.1	8310.6	7741.2	7171.7	6490.2	6231.4	6386.7	6768.4	6895.7	7691.6
30°	9786.0	9842.0	9440.9	8828.3	8107.9	7210.6	6692.9	6708.0	7033.8	7148.0	8021.5
32.5°	11231.1	11328.2	10845.0	10068.5	9085.0	7993.6	7275.3	7156.7	7419.8	7514.7	8437.9
35°	12663.3	12773.2	12372.1	11513.6	10381.3	8916.7	7883.6	7672.1	7933.2	8036.7	8990.1
37.5°	13901.4	14048.0	13841.0	13094.7	11768.1	10029.7	8677.3	8278.3	8565.1	8694.6	9732.1
40°	14878.5	15102.8	15087.7	14621.7	13403.1	11380.0	9684.6	9026.8	9350.3	9490.5	10631.5
42.5°	15672.1	15866.3	16034.6	16010.8	15109.2	12913.5	10868.7	9999.5	10245.4	10407.1	11643.1
45°	16220.0	16427.2	16789.5	17179.9	16750.7	14554.9	12225.5	11153.4	11377.8	11621.4	12848.8
47.5°	16709.7	16944.8	17415.0	18034.1	18144.0	16202.8	13711.5	12497.2	12702.1	12954.5	14058.8
50°	16752.8	16955.6	17684.6	18562.4	19134.1	17786.0	15307.7	14004.9	14196.9	14466.4	15355.1
52.5°	15711.0	16030.3	17302.8	18547.4	19589.2	19110.3	16893.0	15572.9	15788.7	16112.2	16696.7
55°	12195.2	12663.3	16183.4	17969.3	19427.4	19966.6	18400.7	17240.3	17516.3	17855.0	18047.0
57.5°	10504.2	10709.1	12846.6	16916.7	18689.7	20188.8	19673.2	18924.8	19369.1	19740.2	19474.8
60°	9440.9	9611.2	10875.2	15279.7	17719.1	19837.2	20656.8	20495.1	21262.9	21705.1	20935.1
62.5°	8302.0	8463.7	9613.4	12758.2	16476.8	19252.7	21278.1	21944.5	23204.2	23687.3	22311.2
65°	7171.7	7309.8	8412.0	10719.9	14897.9	18668.1	21599.4	23197.7	25000.9	25501.3	23454.4
67.5°	5912.1	6026.5	7068.2	9044.0	12978.2	17867.9	21759.0	24183.4	26564.6	26993.9	24019.4
70°	4266.4	4354.8	5431.2	7152.3	10568.9	16491.8	21694.3	24882.3	27375.7	27718.6	23592.4
72.5°	2016.7	2096.5	3360.5	4643.9	7465.1	13812.9	20385.1	24328.0	26551.7	26381.3	20978.3
75°	1076.4	1145.3	1930.5	2547.3	3942.9	9468.8	16681.7	20956.6	22296.1	21467.8	15503.9
77.5°	729.1	783.0	1194.9	1529.3	1801.0	4495.0	10722.0	14509.6	13959.6	12592.1	7764.9
80°	578.1	634.2	979.3	1035.4	871.4	1624.1	4430.4	6716.6	4825.1	3858.7	2208.7
82.5°	444.3	506.9	823.9	750.6	474.5	666.5	1289.9	2124.5	1235.9	940.4	534.9
85°	271.7	338.7	647.1	478.9	267.4	304.1	437.9	591.0	377.5	314.9	192.0
87.5°	138.1	194.1	327.9	174.7	120.7	71.1	116.4	116.4	99.2	86.3	49.6
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°	5875.5	5875.5	5875.5	5875.5	5875.5	5875.5	5875.5	5875.5	5875.5	5875.5	5875.5
2.5°	5897.0	5940.2	6013.5	6082.6	6136.5	6188.2	6240.0	6268.0	6276.7	6311.1	6330.6
5°	5966.0	6045.9	6188.2	6321.9	6406.0	6457.8	6494.5	6516.0	6520.3	6531.2	6548.4
7.5°	6093.3	6220.5	6419.0	6552.7	6615.2	6610.9	6595.9	6542.0	6520.3	6501.0	6505.3
10°	6272.3	6440.6	6684.3	6777.1	6738.2	6634.7	6501.0	6343.5	6270.1	6199.0	6177.5
12.5°	6494.5	6708.0	6947.4	6943.1	6751.2	6485.9	6175.3	5933.7	5780.6	5670.5	5644.7
15°	6764.1	7010.0	7193.3	7046.7	6626.1	6149.4	5694.3	5379.4	5241.3	5120.5	5107.6
17.5°	7042.4	7305.5	7389.6	7014.3	6311.1	5651.1	5135.7	4887.6	4751.7	4687.0	4706.4
20°	7314.1	7575.2	7506.1	6828.9	5832.4	5086.0	4626.6	4490.7	4462.6	4477.8	4471.3
22.5°	7601.0	7834.0	7529.9	6470.7	5221.9	4508.0	4255.6	4259.9	4322.4	4367.7	4378.6
25°	7894.3	8051.8	7467.2	5953.1	4566.2	4083.1	4020.5	4089.5	4212.4	4300.9	4324.6
27.5°	8176.9	8245.9	7331.4	5312.5	4003.2	3779.0	3789.7	3932.1	4117.5	4240.5	4270.7
30°	8496.1	8418.4	7070.3	4592.1	3612.8	3517.9	3608.5	3774.6	3960.1	4070.1	4096.0
32.5°	8856.3	8567.3	6656.2	3925.6	3336.8	3308.7	3457.5	3565.4	3647.4	3679.7	3697.0
35°	9304.9	8776.6	6125.7	3457.5	3088.7	3155.6	3297.9	3244.0	3211.6	3194.4	3211.6
37.5°	9887.4	9059.1	5504.5	3153.4	2888.1	3045.6	3103.8	2935.6	2808.3	2745.8	2760.8
40°	10588.4	9473.2	4907.0	2918.3	2760.8	2950.7	2849.3	2646.5	2484.8	2396.3	2402.8
42.5°	11366.9	9906.7	4404.4	2741.5	2689.7	2873.0	2661.6	2420.0	2159.1	2131.1	2159.1
45°	12184.5	10353.2	4061.5	2605.5	2655.2	2806.1	2553.8	2163.4	1977.9	2092.2	2152.6
47.5°	13001.9	10763.0	3854.4	2504.2	2637.9	2730.7	2458.9	2021.0	1889.5	2055.5	2133.2
50°	13912.1	11129.8	3761.6	2430.9	2618.5	2700.5	2316.5	1984.4	1796.7	1906.7	1988.7
52.5°	14815.9	11414.4	3692.7	2357.5	2590.5	2676.8	2247.5	1941.2	1684.6	1691.0	1736.4
55°	15717.5	11599.9	3617.1	2260.4	2528.0	2624.9	2241.1	1893.8	1600.4	1570.2	1591.8
57.5°	16679.5	11705.6	3524.4	2152.6	2420.0	2493.4	2234.6	1857.1	1574.5	1524.9	1531.5
60°	17658.7	11860.9	3403.6	2021.0	2275.6	2336.0	2219.4	1844.2	1559.4	1475.4	1481.8
62.5°	18536.6	11914.8	3259.1	1895.9	2090.1	2180.7	2187.1	1833.4	1518.4	1373.9	1373.9
65°	19112.5	11681.9	3006.7	1753.6	1889.5	2021.0	2124.5	1796.7	1445.1	1300.6	1300.6
67.5°	19088.8	11017.5	2612.0	1570.2	1695.4	1844.2	2034.0	1734.2	1356.7	1210.0	1216.5
70°	18200.1	9706.1	2111.6	1356.7	1481.8	1654.4	1917.5	1641.4	1251.0	1110.8	1123.7
72.5°	15609.6	7596.7	1533.6	1106.5	1233.8	1458.1	1766.5	1529.3	1143.2	1022.3	1015.9
75°	11151.3	4807.8	1039.7	849.8	959.8	1235.9	1578.9	1397.7	1044.0	1026.7	968.4
77.5°	5696.4	2297.1	688.1	621.2	668.6	974.9	1326.6	1248.9	1059.0	847.7	754.9
80°	1852.8	847.7	433.6	422.7	444.3	649.2	1026.7	1024.5	802.4	575.9	509.0
82.5°	591.0	364.5	282.6	271.7	261.0	407.6	716.1	811.0	541.4	364.5	362.3
85°	235.1	217.8	166.0	153.1	110.0	192.0	375.4	539.3	403.3	263.1	269.6
87.5°	86.3	86.3	45.3	32.4	23.7	64.7	101.4	161.7	230.8	135.9	133.8
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)