

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: P971441

Luminaire Tested: **NAV-SB6D-740-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971441
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6D-740-U-SL3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 65400.1 lumens
Efficiency: N/A
Efficacy: 148.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 440.1
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



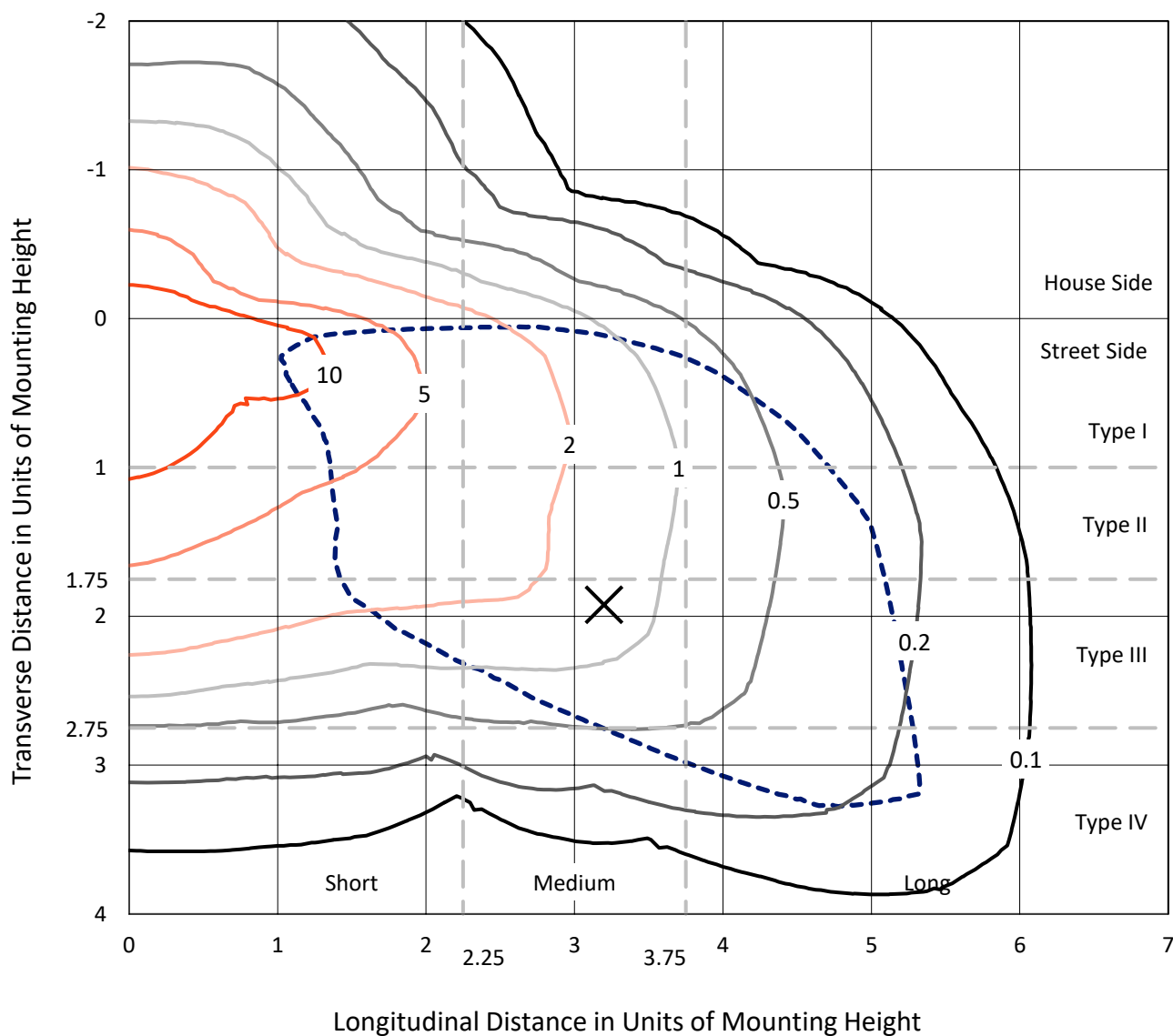
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

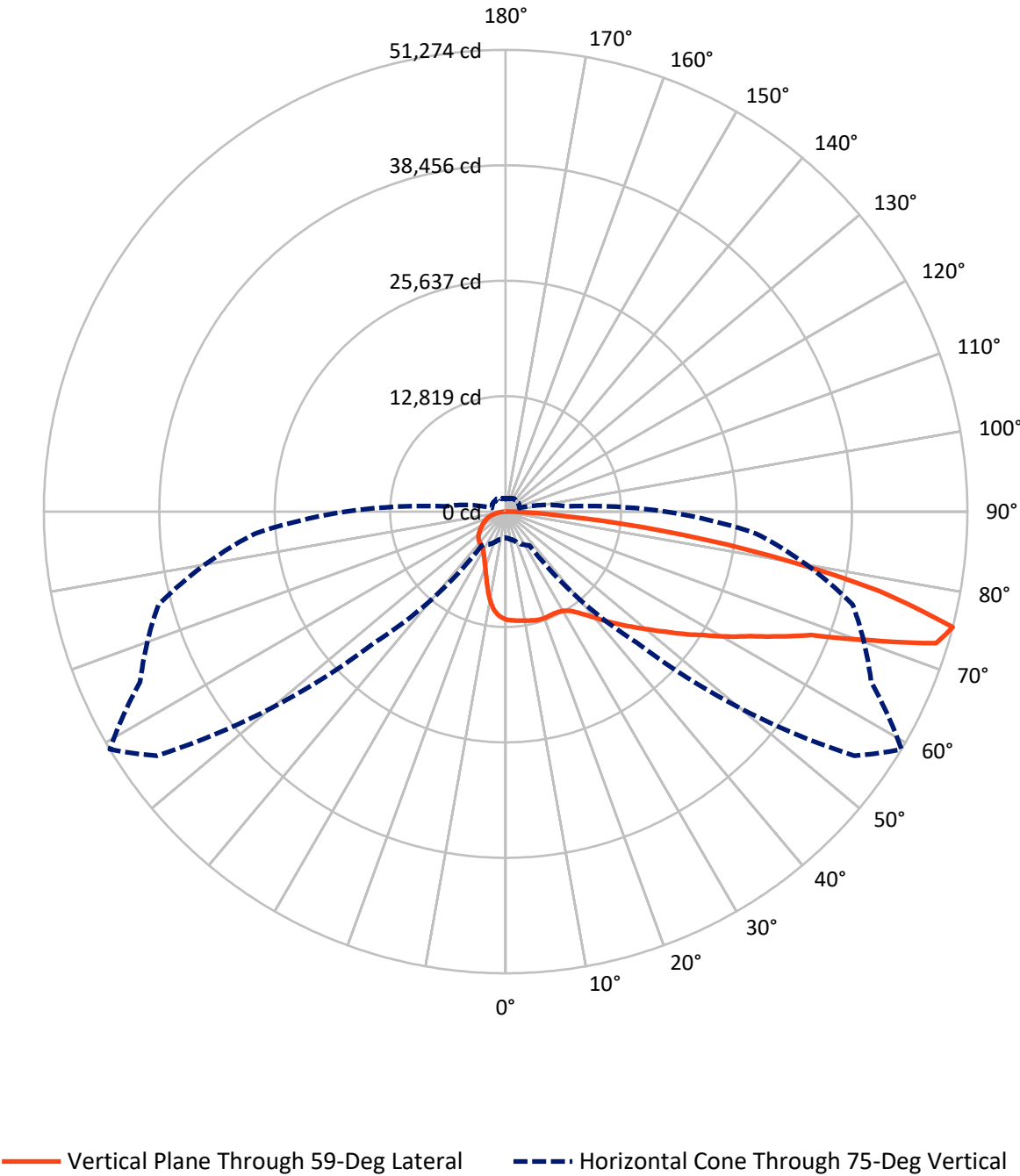
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.2 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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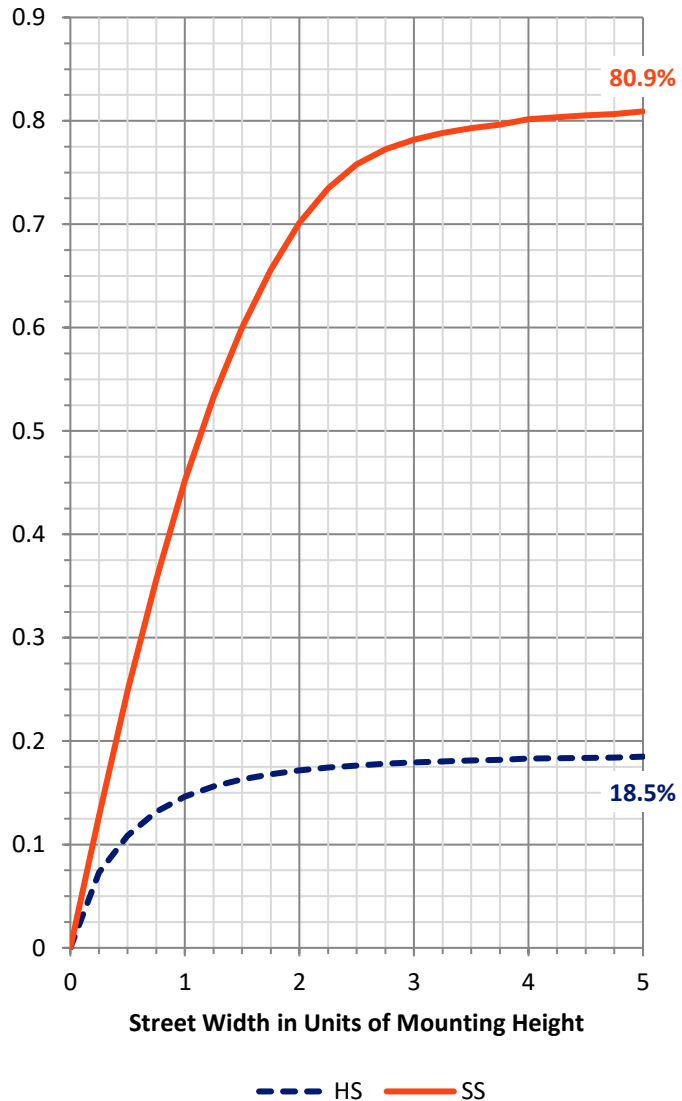
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12266.2	0.0	12266.2
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	53133.9	0.0	53133.9
	% Fixture	81.2	0.0	81.2
Total	Lumens	65400.1	0.0	65400.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1076.4	1.6
10°-20°	2751.2	4.2
20°-30°	4178.9	6.4
30°-40°	6211.8	9.5
40°-50°	9238.1	14.1
50°-60°	12539.6	19.2
60°-70°	15308.8	23.4
70°-80°	12014.1	18.4
80°-90°	2081.1	3.2
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°	65400.1	100.0
0°-180°	65400.1	100.0

Coefficient of Utilization



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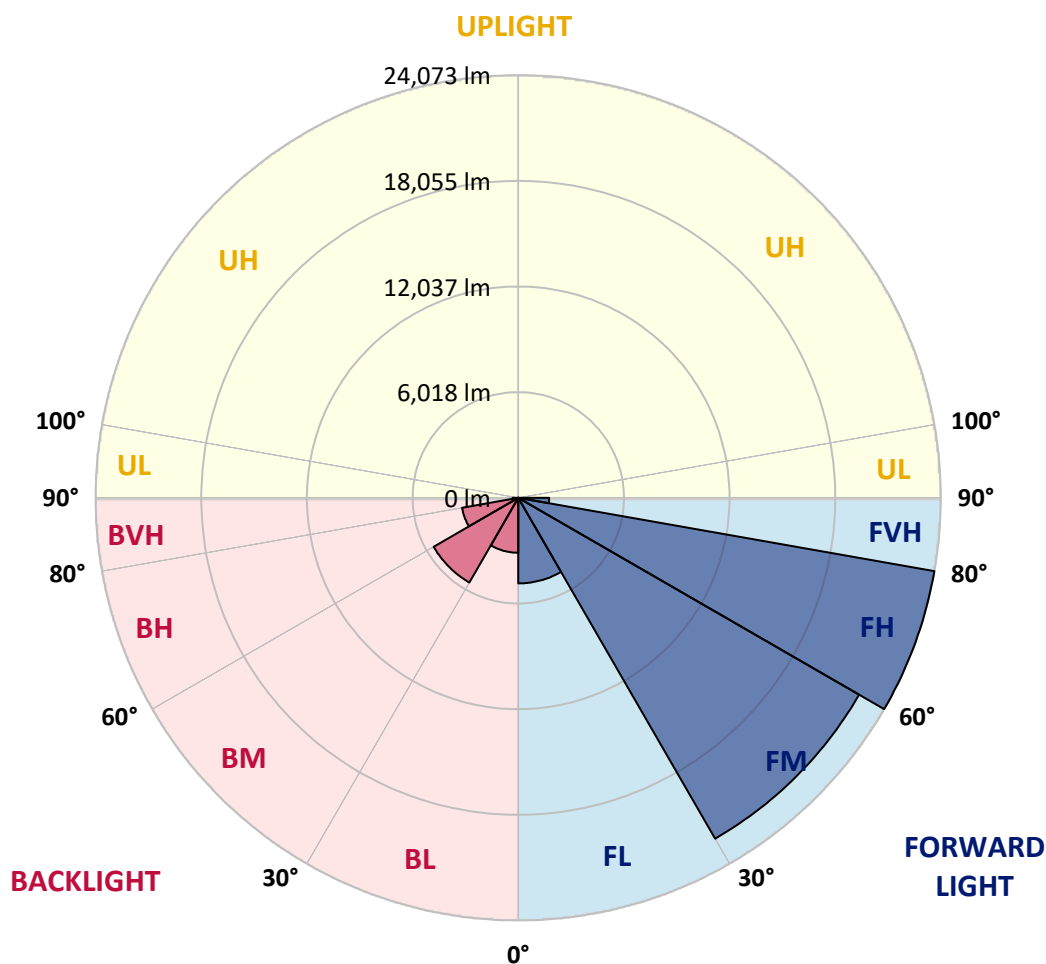
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4876.3	7.5			
FM	(30°-60°)	22421.9	34.3			
FH	(60°-80°)	24073.1	36.8			G5
FVH	(80°-90°)	1762.6	2.7			G5
BL	(0°-30°)	3130.2	4.8	B4/5000		
BM	(30°-60°)	5567.6	8.5	B4/8500		
BH	(60°-80°)	3249.8	5.0	B4/5000		G4/5000
BVH	(80°-90°)	318.6	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	12004.1	12004.1	12004.1	12004.1	12004.1	12004.1	12004.1	12004.1	12004.1	12004.1	12004.1
2.5°	12106.1	12063.8	12106.1	12088.4	12081.5	12067.3	12070.9	12095.5	12081.5	12099.0	12039.2
5°	12025.2	12000.5	12042.7	12032.2	12077.9	12085.0	12130.7	12158.9	12176.5	12180.0	12134.3
7.5°	11891.4	11866.8	11926.7	11975.9	12074.4	12102.6	12197.5	12243.3	12267.9	12310.1	12243.3
10°	11402.4	11391.8	11539.7	11726.1	11958.3	12102.6	12246.8	12324.2	12362.9	12475.5	12398.1
12.5°	10537.0	10551.0	10744.6	11103.4	11567.8	12032.2	12303.1	12415.7	12475.5	12616.2	12581.1
15°	9710.2	9706.6	9917.8	10301.2	10952.1	11722.6	12331.3	12524.8	12626.8	12834.3	12806.1
17.5°	9231.8	9217.6	9365.4	9657.4	10262.5	11247.6	12260.8	12584.5	12802.7	13063.0	13038.4
20°	9143.7	9115.6	9193.0	9337.2	9766.5	10726.9	12077.9	12584.5	12943.4	13281.1	13267.1
22.5°	9463.9	9418.2	9386.5	9368.9	9558.9	10297.8	11870.3	12542.3	13151.0	13594.3	13569.7
25°	10107.7	10037.4	9875.6	9717.2	9660.9	10104.2	11687.5	12531.8	13460.6	14016.5	13924.9
27.5°	11149.1	11061.2	10734.0	10354.0	10012.7	10202.7	11606.5	12595.1	13801.8	14463.3	14280.3
30°	12440.3	12345.3	11933.7	11349.6	10737.5	10568.7	11708.5	12781.5	14238.1	15057.9	14699.0
32.5°	13597.8	13492.3	13140.4	12545.9	11719.0	11201.9	12032.2	13136.9	14924.1	15884.6	15328.8
35°	14625.1	14502.0	14185.3	13636.5	12922.3	12092.0	12616.2	13766.7	15898.7	17228.5	16183.6
37.5°	15631.2	15487.0	15142.2	14561.8	14062.2	13277.6	13421.9	14575.8	17193.4	18861.0	17316.6
40°	16757.1	16549.5	16130.8	15557.4	15071.9	14667.3	14480.9	15568.0	18509.1	20683.4	18730.8
42.5°	17847.7	17650.7	17151.1	16662.1	16053.4	15937.4	15708.7	16728.9	19948.1	22685.3	20166.3
45°	19022.9	18787.1	18182.0	17562.8	17179.3	16781.7	16897.8	17889.9	21358.9	24725.8	21672.0
47.5°	20124.0	19860.2	19146.0	18456.4	18245.3	17492.4	17988.4	19167.1	22826.0	26794.5	23163.8
50°	20718.6	20458.3	19863.7	19241.0	19075.6	18368.4	19170.6	20570.8	24363.4	28856.1	24595.6
52.5°	21214.6	20933.2	20155.7	19810.9	19761.7	19321.9	20627.1	22175.2	25900.8	30678.6	25978.3
55°	21742.4	21429.3	20437.2	20127.5	20352.7	20391.4	22354.5	23994.0	27526.3	32455.3	27283.6
57.5°	22351.0	21953.4	20708.1	20394.9	20929.7	21643.9	24338.8	25879.8	29123.5	34101.8	28444.6
60°	22924.5	22523.5	21228.8	20820.6	21552.4	23096.8	26615.0	28163.1	30931.8	35568.8	29542.2
62.5°	23037.1	22706.4	21643.9	21640.3	22396.8	24792.7	29310.0	30467.5	32511.6	37018.4	30527.3
65°	21088.0	20880.4	20250.7	21608.7	23607.0	27234.2	32311.0	33415.7	34520.5	38284.9	31392.8
67.5°	16050.0	16078.1	16032.3	18653.5	22628.9	30741.9	36655.9	36571.5	37000.8	39706.2	32388.4
70°	7338.9	7504.3	8580.9	12876.6	18129.2	31146.5	43840.1	42746.0	40114.3	41546.2	33250.4
72.5°	3965.0	4091.7	4531.4	6237.7	10899.3	27691.6	49208.8	49986.4	44255.3	42784.6	32304.0
75°	2909.6	2979.9	3285.9	3965.0	4577.1	20581.4	47284.4	51274.0	44772.4	39896.2	27895.7
77.5°	2177.7	2209.4	2459.2	3141.7	2343.1	10850.0	37781.8	42464.5	38327.1	32778.9	20606.0
80°	1579.6	1614.9	1801.3	2357.2	1643.0	3968.5	25943.1	29806.1	26249.2	20894.5	10269.6
82.5°	1090.6	1104.7	1185.6	1604.3	1147.0	1541.0	14720.1	17478.3	14653.2	7331.9	2772.3
85°	657.9	675.5	710.6	935.8	650.9	731.7	6353.9	6572.0	4380.1	1752.0	861.9
87.5°	270.9	288.5	316.6	394.0	256.9	204.1	1048.4	1315.8	819.7	513.6	267.4
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°	12004.1	12004.1	12004.1	12004.1	12004.1	12004.1	12004.1	12004.1	12004.1	12004.1	12004.1
2.5°	12021.6	11997.0	11930.2	11838.6	11754.3	11648.7	11603.0	11564.3	11529.1	11462.3	11430.6
5°	12095.5	12028.7	11849.2	11617.0	11353.2	11064.7	10783.2	10589.8	10424.4	10301.2	10199.3
7.5°	12208.1	12081.5	11754.3	11279.3	10674.1	10054.9	9495.6	9098.0	8799.0	8689.9	8499.9
10°	12324.2	12172.9	11603.0	10765.7	9720.8	8767.3	8024.9	7616.9	7377.6	7300.3	7180.6
12.5°	12461.4	12239.7	11367.2	10051.5	8654.7	7609.8	6962.5	6723.3	6600.1	6557.8	6568.4
15°	12661.9	12296.1	11011.9	9157.9	7638.0	6765.5	6346.8	6181.5	6118.1	6114.6	6128.7
17.5°	12813.2	12306.6	10459.6	8200.9	6856.9	6255.4	5910.6	5847.2	5889.4	5952.8	5977.4
20°	12982.1	12211.6	9734.8	7328.3	6308.1	5808.6	5664.3	5706.5	5808.6	5900.0	5931.7
22.5°	13101.8	12039.2	8858.8	6649.4	5833.2	5551.7	5544.6	5632.6	5689.0	5734.7	5759.3
25°	13207.2	11747.2	7930.0	6079.4	5442.6	5396.9	5474.3	5446.1	5407.5	5446.1	5470.7
27.5°	13284.7	11286.4	7099.7	5579.8	5168.3	5291.4	5245.6	5182.3	5178.8	5199.9	5235.1
30°	13260.0	10670.7	6417.2	5104.9	4974.7	5094.4	4985.3	4974.7	4964.2	4974.7	5013.4
32.5°	13260.0	9970.6	5892.9	4777.7	4851.5	4805.8	4795.3	4770.7	4728.4	4724.9	4770.7
35°	13333.9	9270.4	5442.6	4601.7	4749.5	4640.5	4647.6	4587.7	4499.8	4457.5	4499.8
37.5°	13485.2	8707.5	4995.8	4517.4	4570.2	4566.6	4538.5	4436.4	4281.6	4148.0	4193.7
40°	13851.1	8542.1	4689.8	4478.6	4485.7	4527.9	4454.0	4257.0	3905.1	3687.0	3715.2
42.5°	14424.5	8820.1	4622.9	4383.6	4429.4	4471.6	4327.3	3870.0	3620.2	3490.0	3490.0
45°	15152.8	9305.6	4767.2	4246.5	4295.7	4369.6	3940.4	3722.3	3609.6	3613.1	3630.8
47.5°	16074.6	9815.7	5034.5	4126.9	4102.2	4144.4	3683.5	3549.9	3395.0	3433.7	3532.3
50°	17140.6	10332.9	5287.9	3965.0	3887.6	3750.4	3518.2	3391.5	3194.5	3103.1	3127.7
52.5°	18294.6	10832.5	5389.9	3768.0	3655.4	3497.1	3405.6	3250.8	3011.6	2860.3	2856.8
55°	19388.7	11286.4	5277.3	3532.3	3423.2	3300.1	3285.9	3191.0	2934.2	2723.1	2723.1
57.5°	20423.0	11666.3	4995.8	3293.0	3187.4	3113.6	3208.6	3162.8	2839.1	2568.2	2554.2
60°	21299.1	11926.7	4587.7	3050.3	2976.4	2937.6	3082.0	3067.8	2705.5	2402.9	2392.4
62.5°	21995.7	12028.7	4137.4	2818.0	2800.5	2730.1	2906.0	2906.0	2536.6	2241.1	2230.5
65°	22541.0	11930.2	3680.1	2589.4	2624.6	2519.0	2691.4	2670.3	2357.2	2096.8	2082.8
67.5°	23023.0	11606.5	3173.4	2364.3	2445.1	2311.5	2466.3	2417.0	2160.2	1952.6	1938.5
70°	23237.6	10853.6	2596.4	2139.1	2237.6	2107.4	2241.1	2149.6	1938.5	1797.7	1769.7
72.5°	21513.7	9020.6	2044.1	1903.3	1987.8	1882.2	1998.3	1892.8	1699.2	1636.0	1583.2
75°	17798.5	6769.0	1572.7	1646.6	1709.8	1628.9	1706.3	1628.9	1453.0	1498.8	1368.6
77.5°	12925.8	4570.2	1203.2	1375.7	1403.7	1361.5	1428.3	1340.4	1182.1	1171.6	1118.8
80°	6427.8	2677.3	942.9	1087.1	1076.6	1048.4	1125.9	1083.6	949.9	1006.2	995.7
82.5°	1861.1	1147.0	686.0	763.4	742.3	749.4	805.6	826.8	1238.4	1227.8	1256.0
85°	584.0	450.3	411.6	425.7	404.6	415.1	475.0	942.9	872.5	510.1	552.4
87.5°	151.3	154.8	102.0	109.1	112.5	133.7	151.3	573.5	274.4	179.5	189.9
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)