

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: P971501

Luminaire Tested: **NAV-SB6D-760-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971501
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6D-760-U-SL2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 5700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 66512.2 lumens
Efficiency: N/A
Efficacy: 151.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - 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



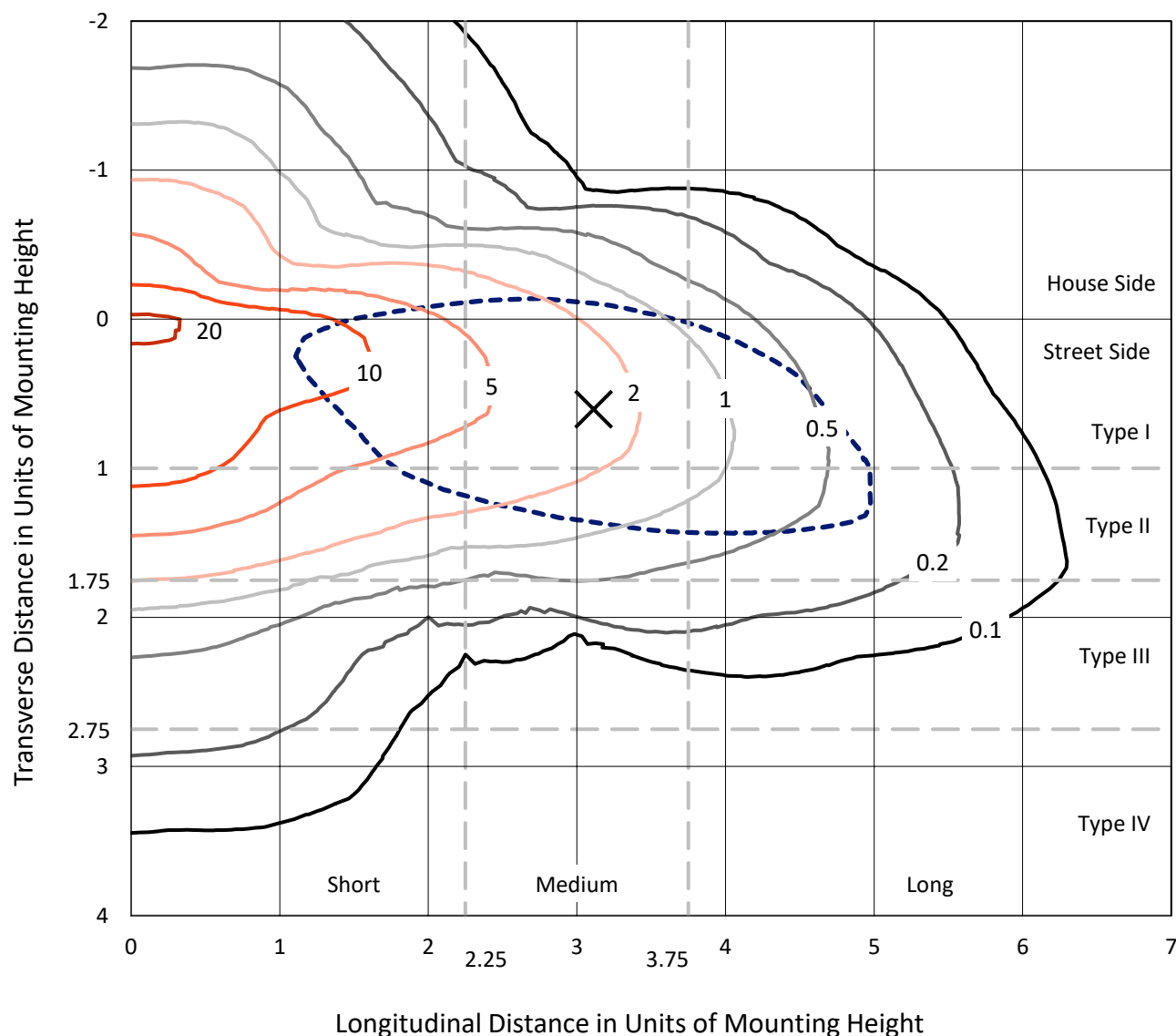
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

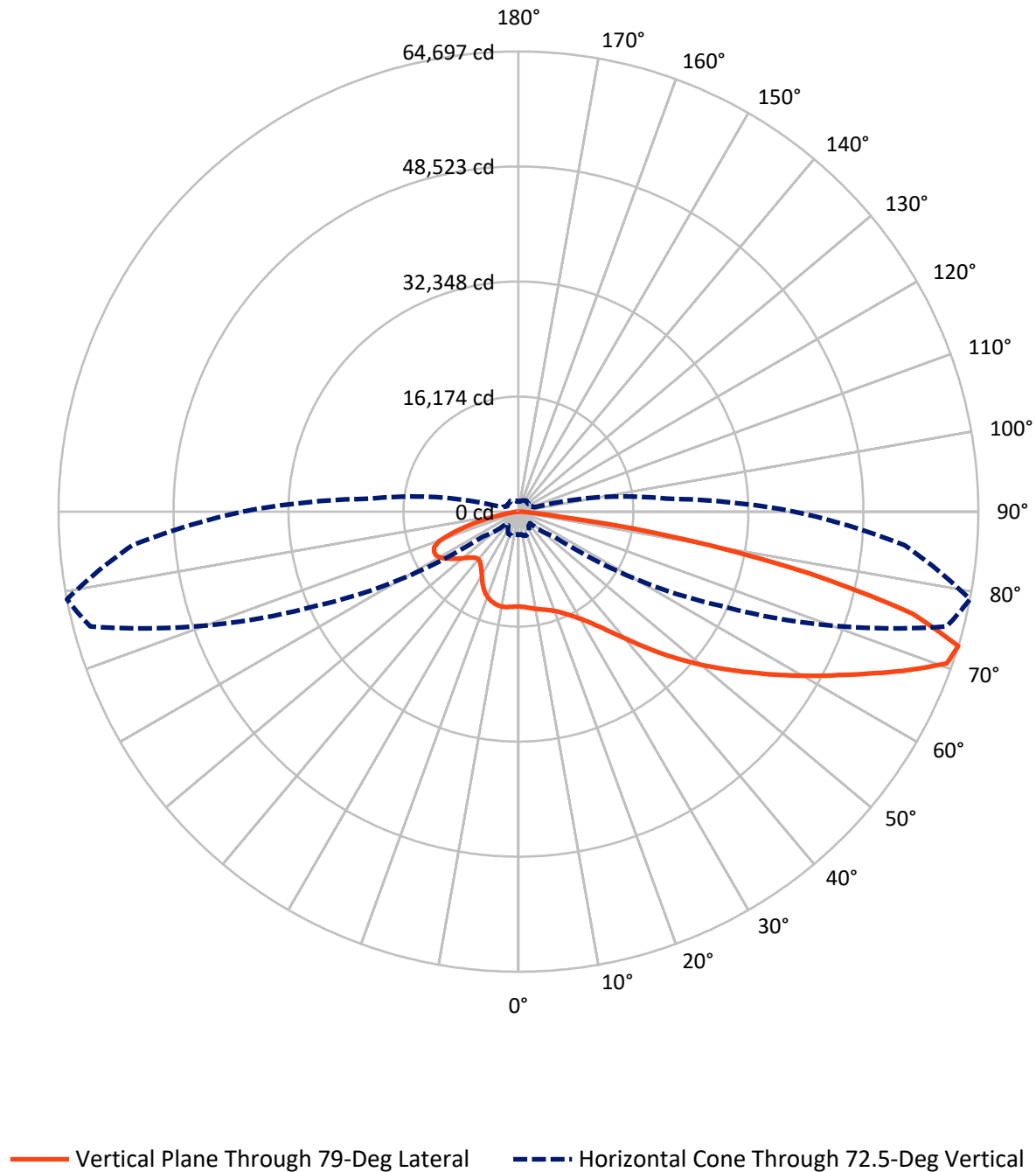
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.5 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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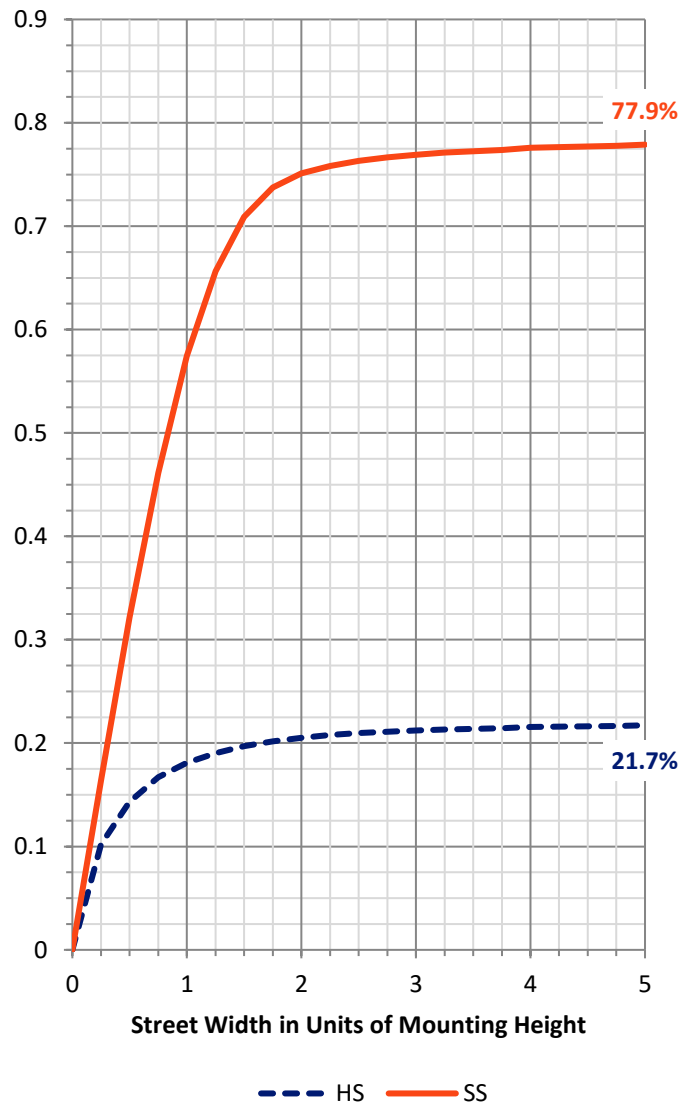
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14636.3	0.0	14636.3
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	51875.9	0.0	51875.9
	% Fixture	78.0	0.0	78.0
Total	Lumens	66512.2	0.0	66512.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1212.0	1.8
10°-20°	3168.6	4.8
20°-30°	5112.9	7.7
30°-40°	7673.7	11.5
40°-50°	10885.6	16.4
50°-60°	13747.1	20.7
60°-70°	13962.0	21.0
70°-80°	9515.7	14.3
80°-90°	1234.6	1.9
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°	66512.2	100.0
0°-180°	66512.2	100.0

Coefficient of Utilization



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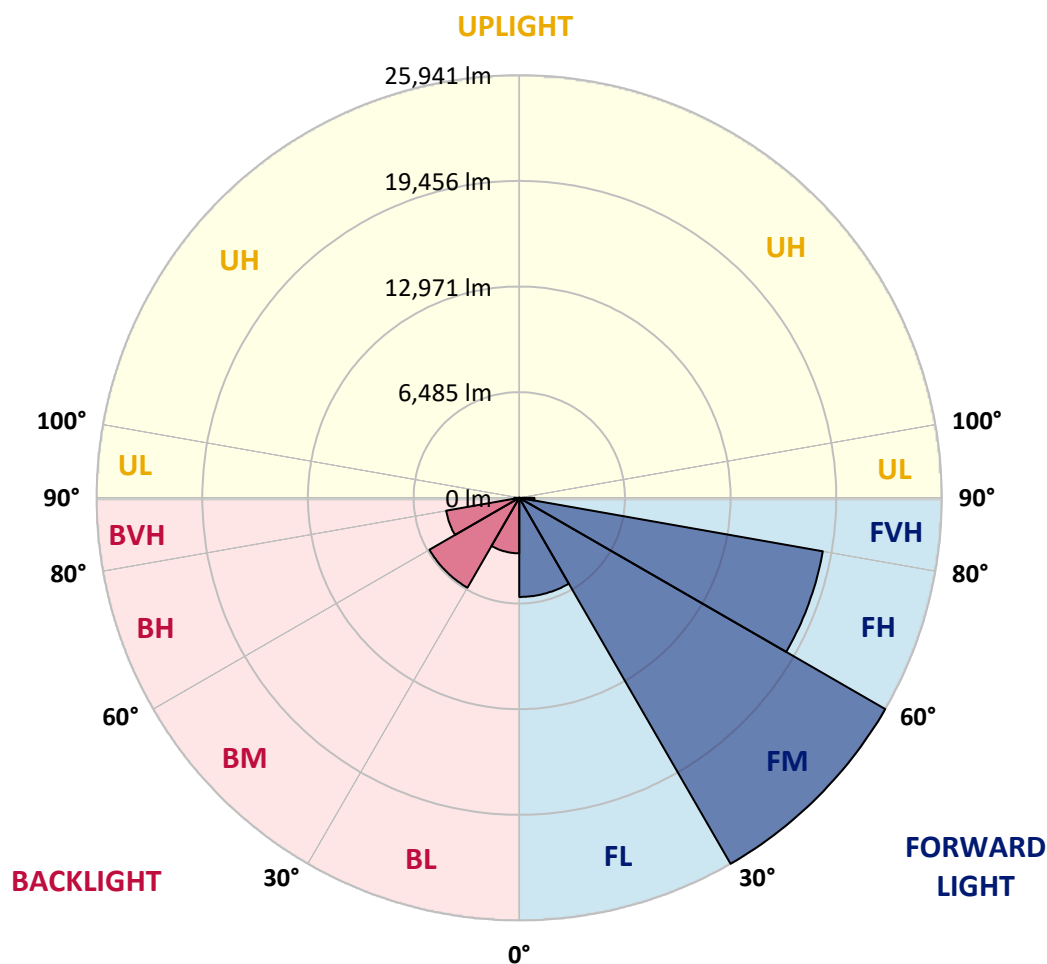
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6084.3	9.1			
FM	(30°-60°)	25941.1	39.0			
FH	(60°-80°)	18920.5	28.4			G5
FVH	(80°-90°)	930.0	1.4			G5
BL	(0°-30°)	3409.2	5.1	B4/5000		
BM	(30°-60°)	6365.3	9.6	B4/8500		
BH	(60°-80°)	4557.3	6.9	B4/5000		G4/5000
BVH	(80°-90°)	304.6	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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	13351.8	13351.8	13351.8	13351.8	13351.8	13351.8	13351.8	13351.8	13351.8	13351.8	13351.8
2.5°	13358.7	13295.4	13334.1	13320.1	13337.6	13358.7	13365.8	13376.4	13411.5	13408.0	13404.4
5°	13330.6	13267.3	13320.1	13302.4	13348.2	13397.5	13439.7	13478.3	13534.6	13559.3	13524.1
7.5°	13270.8	13228.5	13281.3	13334.1	13418.6	13492.4	13552.2	13640.2	13721.2	13735.2	13759.8
10°	12922.5	12890.8	13013.9	13151.2	13383.3	13583.9	13714.1	13816.1	13904.0	13918.2	13953.3
12.5°	12560.1	12521.4	12658.6	12845.1	13221.6	13583.9	13858.3	13992.1	14069.5	14115.2	14168.0
15°	12500.3	12468.6	12546.0	12707.8	13021.0	13488.9	13956.8	14203.1	14269.9	14322.7	14343.8
17.5°	12788.8	12729.0	12760.6	12816.9	12999.9	13401.0	14034.2	14442.4	14544.3	14600.7	14600.7
20°	13457.2	13372.8	13323.6	13211.0	13179.3	13415.0	14027.2	14730.9	14864.6	14934.9	14952.5
22.5°	14347.3	14291.1	14185.5	13900.5	13591.0	13587.4	14160.9	15100.3	15350.1	15416.9	15374.7
25°	15423.9	15339.5	15205.8	14818.8	14224.2	13928.7	14386.1	15571.7	15990.4	16007.9	15884.8
27.5°	16662.4	16535.7	16352.7	15842.6	15040.4	14463.5	14730.9	16113.5	16725.6	16718.7	16465.3
30°	17967.6	17840.9	17647.4	17028.2	16018.5	15184.7	15209.4	16697.6	17598.2	17559.5	17126.7
32.5°	18921.1	18826.1	18787.3	18308.9	17144.4	16036.1	15758.1	17344.9	18674.8	18639.6	18034.5
35°	19652.8	19529.7	19575.4	19332.7	18372.2	16989.6	16430.1	18115.4	19983.6	19980.0	19227.2
37.5°	20377.6	20268.6	20307.3	20145.5	19508.6	18199.8	17249.9	19058.2	21605.5	21682.8	20669.6
40°	21039.0	20922.9	21077.8	20926.5	20391.7	19487.5	18182.3	20124.3	23484.2	23632.0	22414.7
42.5°	21436.6	21345.1	21602.0	21605.5	21158.7	20574.6	19206.0	21299.4	25658.5	25989.2	24560.8
45°	21573.8	21542.1	21929.2	22010.0	21837.7	21204.4	20127.8	22580.0	28001.7	28592.7	27006.0
47.5°	21426.1	21366.2	21901.0	22200.1	22337.3	21499.9	20891.2	23966.2	30394.0	31259.5	29672.8
50°	20680.2	20564.1	21359.2	21989.0	22478.0	21693.4	21661.7	25567.0	33113.6	34060.0	32353.7
52.5°	19339.7	19251.8	20156.0	21250.1	22168.4	21788.4	22527.2	27315.5	35696.0	36920.4	35101.4
55°	17626.3	17510.3	18506.0	19934.3	21397.9	21756.8	23392.8	29271.7	38742.8	39984.7	37940.7
57.5°	14910.3	14678.1	15937.6	17626.3	20141.9	21718.1	24293.4	31217.3	41838.9	43327.1	40969.9
60°	10948.7	10603.9	12148.5	14150.3	17686.2	21341.6	25408.7	33398.6	45554.1	46894.6	44277.0
62.5°	6375.1	6174.5	7184.2	9052.4	13330.6	19125.2	26034.9	35935.3	49206.0	50613.4	47527.8
65°	4950.1	4893.9	4981.8	5126.0	7420.0	14319.2	24103.4	38408.6	53850.1	54835.2	50915.8
67.5°	4527.9	4485.7	4524.5	4253.5	3764.5	7975.8	19068.8	39034.8	58824.9	59422.9	53881.8
70°	4024.9	3975.6	4102.3	3870.1	2962.4	3627.3	12320.9	36762.0	62782.9	63905.3	56137.0
72.5°	3279.0	3222.7	3518.2	3412.7	2494.4	2329.1	6188.5	31361.5	62367.8	64696.9	54522.1
75°	2519.0	2487.4	2839.2	2927.2	2033.5	1833.0	2969.4	23311.8	54884.4	57231.1	46989.6
77.5°	1956.1	1931.5	2111.0	2431.1	1639.5	1421.4	1825.9	14787.2	41360.4	41772.0	32381.8
80°	1467.1	1396.8	1562.1	1882.2	1277.1	1037.9	1238.4	8623.2	26144.0	23698.8	14094.1
82.5°	918.3	883.0	1020.3	1256.0	900.7	714.2	805.6	4763.7	10477.3	6171.0	2719.6
85°	524.2	510.1	555.9	717.7	489.0	411.6	460.8	2103.9	1913.9	1315.8	819.8
87.5°	211.0	204.1	253.3	320.2	179.5	151.3	161.8	506.7	422.2	390.5	270.9
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°	13351.8	13351.8	13351.8	13351.8	13351.8	13351.8	13351.8	13351.8	13351.8	13351.8	13351.8
2.5°	13390.4	13390.4	13341.2	13263.7	13175.8	13119.5	13028.1	13003.4	12908.4	12880.3	12926.0
5°	13552.2	13524.1	13372.8	13154.6	12855.7	12581.2	12278.7	12088.6	11821.2	11726.3	11796.6
7.5°	13756.3	13678.9	13418.6	12940.1	12313.8	11698.1	11057.8	10572.3	10107.9	9942.5	9963.6
10°	13942.8	13833.7	13390.4	12553.1	11469.4	10403.4	9383.2	8668.9	8127.1	7905.5	7954.7
12.5°	14129.2	13928.7	13203.9	11909.3	10269.7	8823.7	7736.6	7180.7	6846.5	6579.1	6667.0
15°	14305.1	14023.6	12915.4	11047.2	8953.9	7486.8	6684.6	6241.3	5974.0	5798.0	5829.7
17.5°	14509.2	14104.6	12482.7	9953.1	7701.4	6561.5	5907.1	5639.8	5587.0	5565.9	5579.9
20°	14794.1	14178.5	11912.8	8728.7	6779.7	5822.7	5484.9	5460.3	5456.8	5446.2	5481.4
22.5°	15100.3	14266.5	11159.9	7617.0	5995.1	5361.8	5302.0	5252.7	5221.0	5217.6	5256.2
25°	15462.6	14294.5	10217.0	6705.8	5326.6	5143.7	5073.3	4999.4	4978.3	4978.3	4999.4
27.5°	15814.4	14199.6	9119.2	5914.1	4950.1	4943.2	4851.6	4827.0	4823.5	4834.1	4862.2
30°	16166.3	14020.2	8028.6	5182.4	4732.0	4732.0	4700.3	4718.0	4732.0	4767.2	4791.9
32.5°	16641.3	13830.2	7117.4	4640.6	4542.1	4506.8	4538.5	4573.8	4587.8	4633.5	4672.3
35°	17337.9	13696.5	6392.6	4345.0	4345.0	4299.3	4316.9	4309.8	4278.1	4257.0	4306.3
37.5°	18259.7	13689.5	5794.5	4207.8	4179.6	4172.7	4176.2	4130.4	4007.2	3859.5	3863.0
40°	19367.9	13879.4	5333.7	4112.8	4091.7	4133.9	4112.8	3989.7	3652.0	3395.1	3388.0
42.5°	20856.1	14421.2	5038.1	3996.7	4060.0	4112.8	4028.4	3602.7	3374.0	3201.6	3194.5
45°	22608.2	15300.8	4886.8	3873.6	4000.3	4063.6	3655.5	3469.0	3286.0	3078.5	3064.3
47.5°	24592.4	16409.0	4851.6	3757.4	3866.5	3905.2	3497.1	3412.7	3205.1	2980.0	2962.4
50°	26752.7	17721.3	4946.6	3620.3	3673.1	3539.3	3444.3	3366.9	3152.4	2930.7	2906.1
52.5°	28986.7	19167.3	5136.6	3433.7	3479.6	3331.8	3423.2	3356.4	3120.7	2821.6	2800.5
55°	31182.1	20623.9	5319.5	3215.6	3282.6	3145.3	3363.4	3314.1	2976.4	2638.7	2621.1
57.5°	33412.6	22073.4	5499.0	3022.2	3092.5	2965.8	3268.4	3201.6	2814.5	2469.8	2462.8
60°	35731.2	23480.7	5583.5	2835.7	2885.0	2800.5	3124.2	3008.1	2631.7	2297.4	2286.9
62.5°	37901.9	24652.3	5446.2	2649.2	2680.9	2645.7	2934.2	2779.4	2448.7	2103.9	2100.4
65°	40079.8	25348.9	5024.0	2466.3	2473.3	2455.7	2666.8	2533.1	2234.1	1935.0	1913.9
67.5°	42053.5	25739.4	4352.0	2269.2	2251.7	2244.6	2417.1	2265.8	2026.5	1766.2	1745.1
70°	42472.1	24747.3	3324.7	2037.1	2037.1	2019.5	2142.6	1987.8	1797.8	1586.7	1579.7
72.5°	38792.0	20817.4	2360.8	1773.1	1801.3	1766.2	1868.2	1738.0	1565.6	1424.9	1382.6
75°	31280.6	15265.6	1716.9	1502.2	1551.5	1491.7	1586.7	1495.3	1347.5	1344.0	1210.3
77.5°	21492.9	9439.4	1245.5	1238.4	1273.6	1196.2	1305.2	1256.0	1122.3	1062.5	995.7
80°	9172.0	3764.5	907.7	956.9	956.9	886.6	1013.2	1027.4	911.2	883.0	883.0
82.5°	1825.9	1069.6	636.8	657.9	619.2	598.1	717.7	795.1	1097.7	1220.9	1224.4
85°	548.9	394.0	383.5	358.9	316.6	320.2	422.2	798.7	985.1	562.9	485.5
87.5°	151.3	98.5	102.0	80.9	66.8	87.9	144.2	605.2	330.7	140.7	119.6
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)