

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: P968796

Luminaire Tested: **NAV-SB5C-735-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968796
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB5C-735-U-T4W
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38700.9 lumens
Efficiency: N/A
Efficacy: 155.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
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



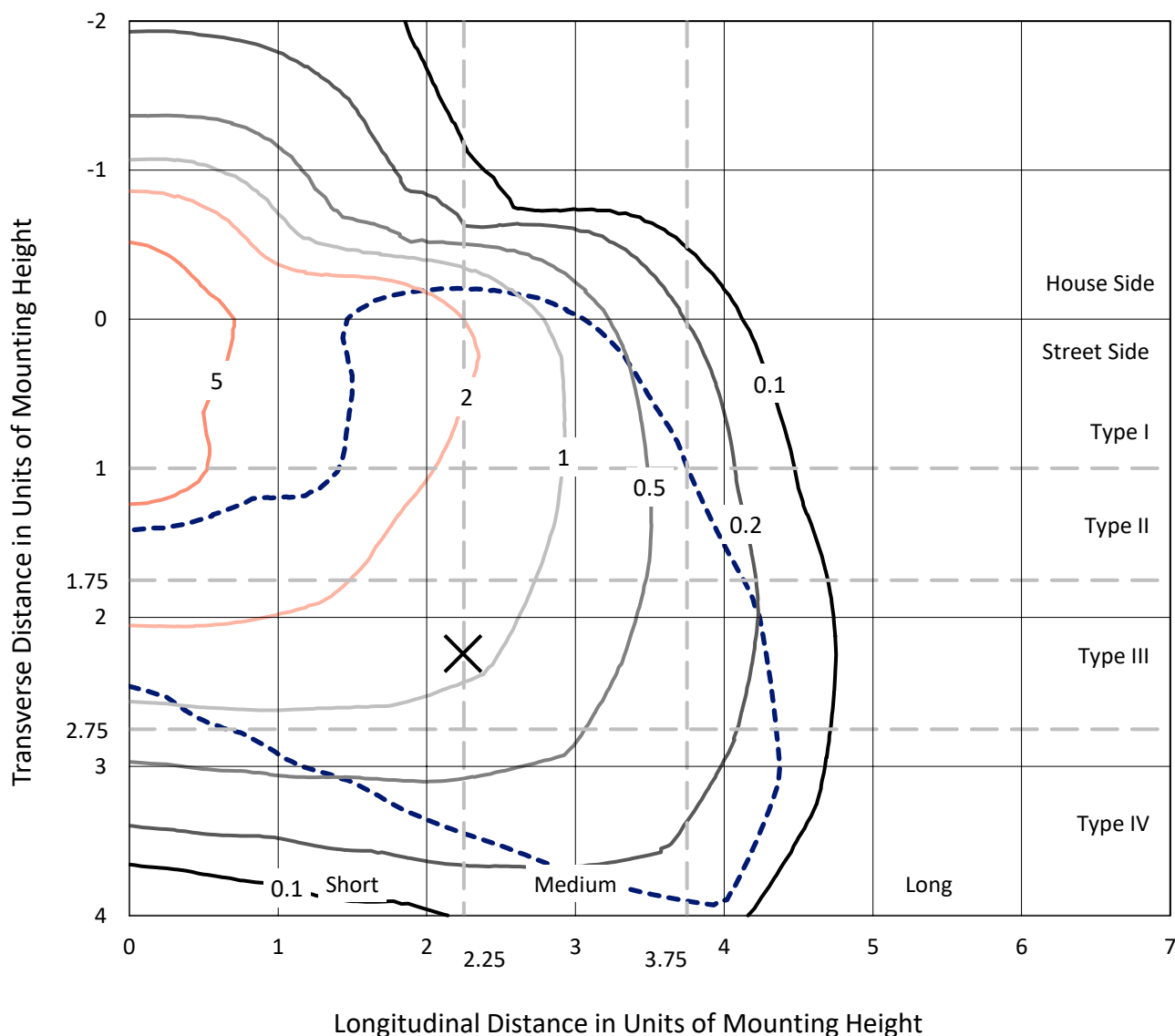
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

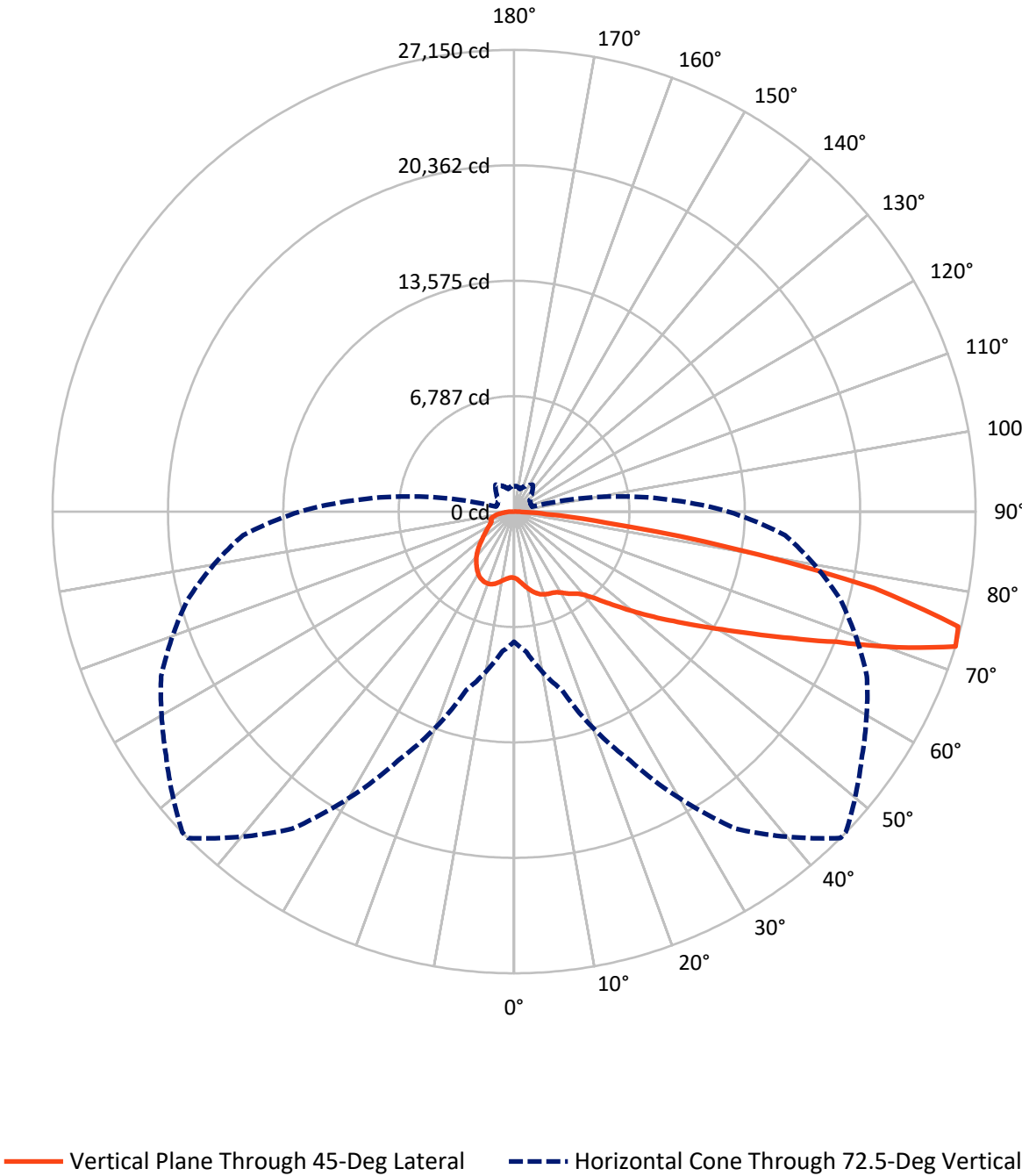


Based on 25 foot mounting height. Maximum calculated value = 7.8 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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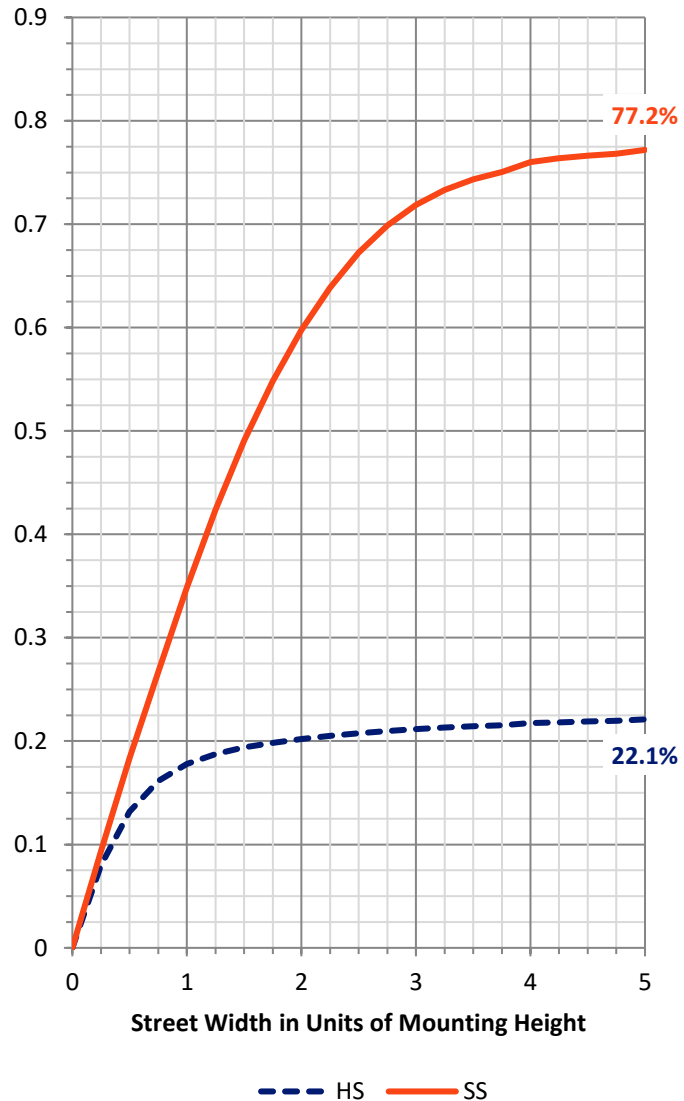
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8748.9	0.0	8748.9
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	29952.0	0.0	29952.0
	% Fixture	77.4	0.0	77.4
Total	Lumens	38700.9	0.0	38700.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	397.4	1.0
10°-20°	1324.9	3.4
20°-30°	2304.7	6.0
30°-40°	3303.9	8.5
40°-50°	4652.1	12.0
50°-60°	7125.6	18.4
60°-70°	10322.5	26.7
70°-80°	8243.2	21.3
80°-90°	1026.6	2.7
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°	38700.9	100.0
0°-180°	38700.9	100.0

Coefficient of Utilization



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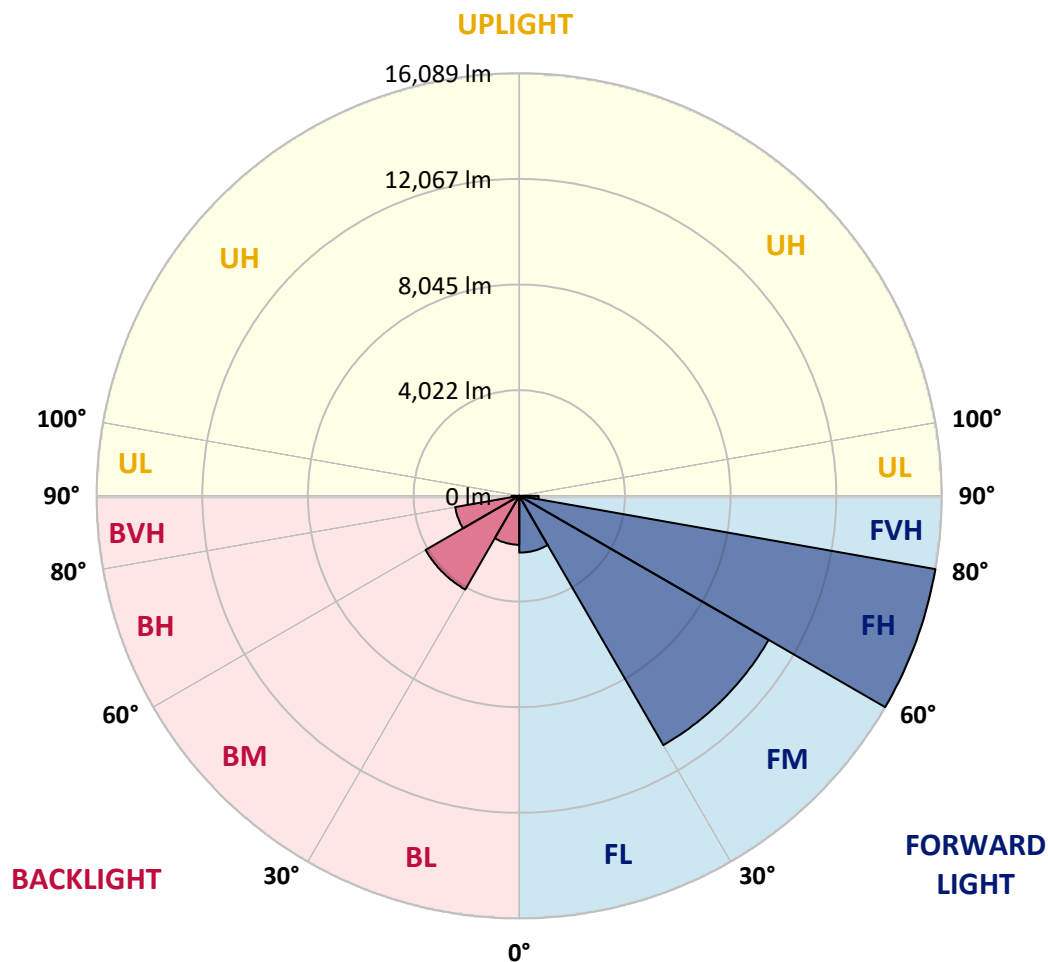
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2164.2	5.6			
FM	(30°-60°)	10962.1	28.3			
FH	(60°-80°)	16089.1	41.6			G5
FVH	(80°-90°)	736.5	1.9			G4/750
BL	(0°-30°)	1862.7	4.8	B3/2500		
BM	(30°-60°)	4119.5	10.6	B3/5000		
BH	(60°-80°)	2476.6	6.4	B3/2500		G3/2500
BVH	(80°-90°)	290.1	0.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	3904.1	3904.1	3904.1	3904.1	3904.1	3904.1	3904.1	3904.1	3904.1	3904.1	3904.1
2.5°	4057.1	4083.6	4059.1	4036.7	4026.5	4000.0	3997.9	3981.6	3971.5	3942.9	3934.8
5°	4340.5	4375.1	4334.3	4289.5	4248.7	4183.4	4175.3	4128.4	4075.4	4014.3	3979.6
7.5°	4660.6	4691.1	4644.3	4576.9	4505.6	4397.6	4395.5	4309.9	4226.3	4122.3	4063.2
10°	4939.9	4980.6	4917.4	4825.7	4736.0	4613.6	4599.4	4501.5	4395.5	4260.9	4171.2
12.5°	5186.5	5215.1	5153.9	5041.8	4937.8	4815.4	4797.1	4689.1	4570.9	4418.0	4303.8
15°	5382.3	5419.0	5337.4	5217.1	5107.1	4986.7	4970.4	4872.5	4754.4	4593.2	4446.4
17.5°	5510.7	5541.3	5457.7	5323.1	5217.1	5117.2	5105.0	5023.4	4919.5	4756.4	4599.4
20°	5559.6	5592.2	5504.6	5368.0	5270.1	5192.6	5186.5	5127.4	5056.0	4907.2	4748.2
22.5°	5608.6	5639.1	5525.0	5382.3	5296.6	5247.7	5245.6	5206.9	5178.4	5056.0	4901.1
25°	5806.3	5814.4	5661.6	5455.7	5333.3	5290.5	5288.5	5286.4	5298.6	5202.8	5066.3
27.5°	5977.6	5975.5	5845.1	5651.3	5461.7	5372.0	5370.0	5390.4	5429.1	5349.7	5237.5
30°	6228.3	6205.9	6051.0	5849.2	5675.8	5537.2	5525.0	5506.6	5537.2	5474.0	5408.7
32.5°	6760.4	6689.0	6438.3	6079.5	5853.2	5747.2	5730.9	5616.7	5628.9	5590.2	5557.5
35°	7522.9	7429.1	7094.7	6515.8	6073.3	5922.6	5914.4	5769.6	5745.1	5710.5	5722.7
37.5°	8430.1	8314.0	7924.6	7147.8	6452.6	6126.4	6114.1	5983.6	5883.8	5847.1	5916.4
40°	9341.4	9194.7	8872.6	7918.4	7011.2	6466.8	6428.1	6230.4	6116.2	6055.0	6201.9
42.5°	10226.3	10103.9	9828.7	8782.8	7700.3	6964.3	6878.7	6540.2	6454.6	6397.5	6662.6
45°	11009.1	10899.0	10697.2	9706.4	8507.6	7641.2	7557.5	7005.1	6978.6	6978.6	7361.9
47.5°	11645.2	11620.7	11406.7	10648.3	9459.7	8411.8	8267.0	7651.3	7722.8	7832.8	8354.7
50°	12350.6	12283.4	12055.0	11575.9	10579.0	9294.6	9176.3	8444.5	8711.5	9013.2	9790.0
52.5°	12998.9	13035.6	12780.8	12542.3	11843.0	10279.3	10071.3	9380.2	9957.2	10456.6	11471.9
55°	13665.6	13667.7	13596.3	13563.7	13168.2	11368.0	11139.6	10505.5	11423.0	12042.8	13433.2
57.5°	14291.5	14295.6	14401.6	14689.1	14705.4	12623.8	12364.9	11887.8	13051.9	13684.0	15455.7
60°	14850.1	14878.7	15168.2	15841.0	16057.0	14063.2	13818.5	13520.9	14735.9	15372.0	17582.0
62.5°	15037.7	15141.6	15785.9	16742.0	17392.4	15828.7	15588.1	15410.8	16505.6	17096.8	19359.8
65°	14719.6	14958.1	16203.8	17486.2	18766.5	17926.5	17688.0	17494.4	18344.5	18901.1	20819.5
67.5°	13938.8	14246.7	16179.4	18267.0	20434.2	20450.5	20228.3	19773.7	20315.9	20530.0	21294.6
70°	11881.7	12342.4	14754.3	18558.5	22348.6	23902.1	23688.1	22517.8	22283.3	21247.6	19957.2
72.5°	7655.4	8275.2	10864.4	16159.0	22774.7	27149.8	27137.6	24994.8	22905.2	19853.1	16006.1
75°	2793.0	3172.3	5047.9	10142.7	19117.2	26984.7	27064.2	24570.8	20909.2	15335.3	9971.4
77.5°	1017.3	1113.1	1647.3	3898.1	11757.4	21651.3	21816.5	19643.2	14882.7	7696.2	3951.1
80°	534.1	587.1	844.0	1512.7	5037.7	12858.3	13117.2	11673.7	6994.9	2318.0	1184.5
82.5°	295.6	320.1	472.9	821.6	2269.1	5498.4	5653.4	4611.6	2460.7	982.7	489.3
85°	159.0	169.2	222.2	448.5	1109.0	1906.2	1949.0	1378.2	980.6	577.0	236.5
87.5°	46.8	57.1	73.4	142.7	434.3	428.1	438.3	273.2	387.3	291.5	77.5
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°	3904.1	3904.1	3904.1	3904.1	3904.1	3904.1	3904.1	3904.1	3904.1	3904.1	3904.1
2.5°	3922.5	3916.4	3894.0	3883.8	3871.5	3869.5	3879.7	3881.8	3883.8	3885.8	3894.0
5°	3959.2	3938.9	3918.5	3906.2	3910.3	3912.3	3932.7	3947.0	3957.2	3965.3	3969.4
7.5°	4030.6	4014.3	3979.6	3977.6	3983.7	4002.0	4028.6	4061.2	4079.5	4093.7	4097.8
10°	4136.6	4106.0	4065.3	4071.3	4083.6	4110.0	4165.1	4191.6	4222.2	4248.7	4242.6
12.5°	4244.6	4218.2	4171.2	4175.3	4195.7	4242.6	4295.6	4328.3	4348.6	4369.0	4377.2
15°	4385.4	4338.4	4287.5	4287.5	4324.2	4375.1	4399.6	4426.1	4438.4	4460.7	4468.9
17.5°	4530.1	4468.9	4401.7	4397.6	4442.3	4466.8	4481.1	4485.2	4489.3	4513.8	4521.9
20°	4674.8	4607.6	4511.7	4503.5	4513.8	4509.7	4507.6	4503.5	4509.7	4540.2	4552.5
22.5°	4817.5	4740.0	4607.6	4570.9	4542.3	4503.5	4501.5	4499.4	4503.5	4534.1	4554.5
25°	4984.7	4890.9	4713.6	4603.5	4507.6	4454.6	4460.7	4462.7	4466.8	4491.3	4523.9
27.5°	5166.1	5062.2	4811.5	4593.2	4420.0	4383.3	4373.1	4379.2	4393.5	4432.2	4470.9
30°	5347.6	5225.2	4901.1	4552.5	4309.9	4258.9	4226.3	4240.5	4285.4	4324.2	4367.0
32.5°	5512.8	5390.4	4972.5	4462.7	4169.2	4089.6	4046.9	4065.3	4110.0	4124.4	4175.3
35°	5706.4	5567.8	5003.0	4320.1	4016.3	3894.0	3836.9	3810.4	3832.8	3818.5	3863.4
37.5°	5922.6	5777.7	4998.9	4132.5	3836.9	3696.3	3616.7	3516.8	3469.9	3421.0	3451.6
40°	6242.6	6034.7	4950.0	3906.2	3614.7	3486.2	3343.6	3174.3	3068.3	2972.5	2978.5
42.5°	6678.9	6391.4	4860.3	3657.5	3363.9	3243.6	3050.0	2852.2	2685.0	2526.0	2511.8
45°	7329.3	6858.3	4748.2	3392.4	3092.7	2974.5	2764.5	2542.3	2352.7	2148.8	2124.3
47.5°	8267.0	7486.2	4642.2	3090.7	2807.4	2699.2	2509.7	2303.8	2079.5	1881.8	1859.4
50°	9555.6	8387.4	4544.3	2797.1	2526.0	2444.4	2293.5	2083.6	1857.3	1698.2	1688.1
52.5°	11194.6	9612.7	4503.5	2513.7	2263.0	2232.4	2112.1	1916.4	1702.3	1567.7	1557.6
55°	13076.4	11078.5	4503.5	2242.6	2032.6	2042.8	1959.2	1777.8	1592.2	1472.0	1459.7
57.5°	14996.9	12562.7	4422.1	1991.9	1836.9	1879.7	1826.7	1667.7	1500.5	1376.2	1355.8
60°	16766.5	13806.2	4091.7	1763.5	1663.6	1730.9	1696.3	1559.6	1355.8	1251.7	1235.4
62.5°	18126.4	14507.6	3455.7	1582.1	1520.9	1598.4	1580.0	1417.0	1329.2	1286.5	1272.1
65°	18807.3	14393.5	2642.2	1421.0	1400.6	1520.9	1482.1	1476.0	1406.7	1357.8	1341.5
67.5°	18389.3	13410.8	1916.4	1302.8	1331.3	1449.6	1598.4	1622.8	1494.3	1398.6	1382.2
70°	16556.5	11633.0	1427.1	1190.6	1243.6	1451.6	1822.7	1698.2	1465.9	1353.7	1335.4
72.5°	12595.3	8674.8	1107.0	1072.4	1129.4	1461.8	1922.5	1663.6	1384.3	1496.4	1484.2
75°	7202.9	4762.5	888.9	927.6	986.8	1365.9	1871.5	1573.9	1321.1	1374.1	1374.1
77.5°	2746.2	1830.8	733.9	784.9	793.0	1192.7	1790.0	1567.7	1257.9	1227.3	1119.3
80°	952.1	715.6	607.5	623.8	613.7	1060.2	1716.6	1363.9	1029.5	921.5	890.9
82.5°	389.4	356.8	481.1	460.7	436.2	823.7	1386.3	1115.2	842.0	744.2	735.9
85°	169.2	226.3	318.1	279.3	252.8	570.8	1111.1	943.9	711.6	613.7	611.6
87.5°	34.6	85.6	134.6	126.4	130.5	381.2	788.9	670.8	503.6	377.2	295.6
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)