

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: P968982

Luminaire Tested: **NAV-SB5C-835-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968982
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-835-U-T4W
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 80 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: 35896.5 lumens
Efficiency: N/A
Efficacy: 143.9 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



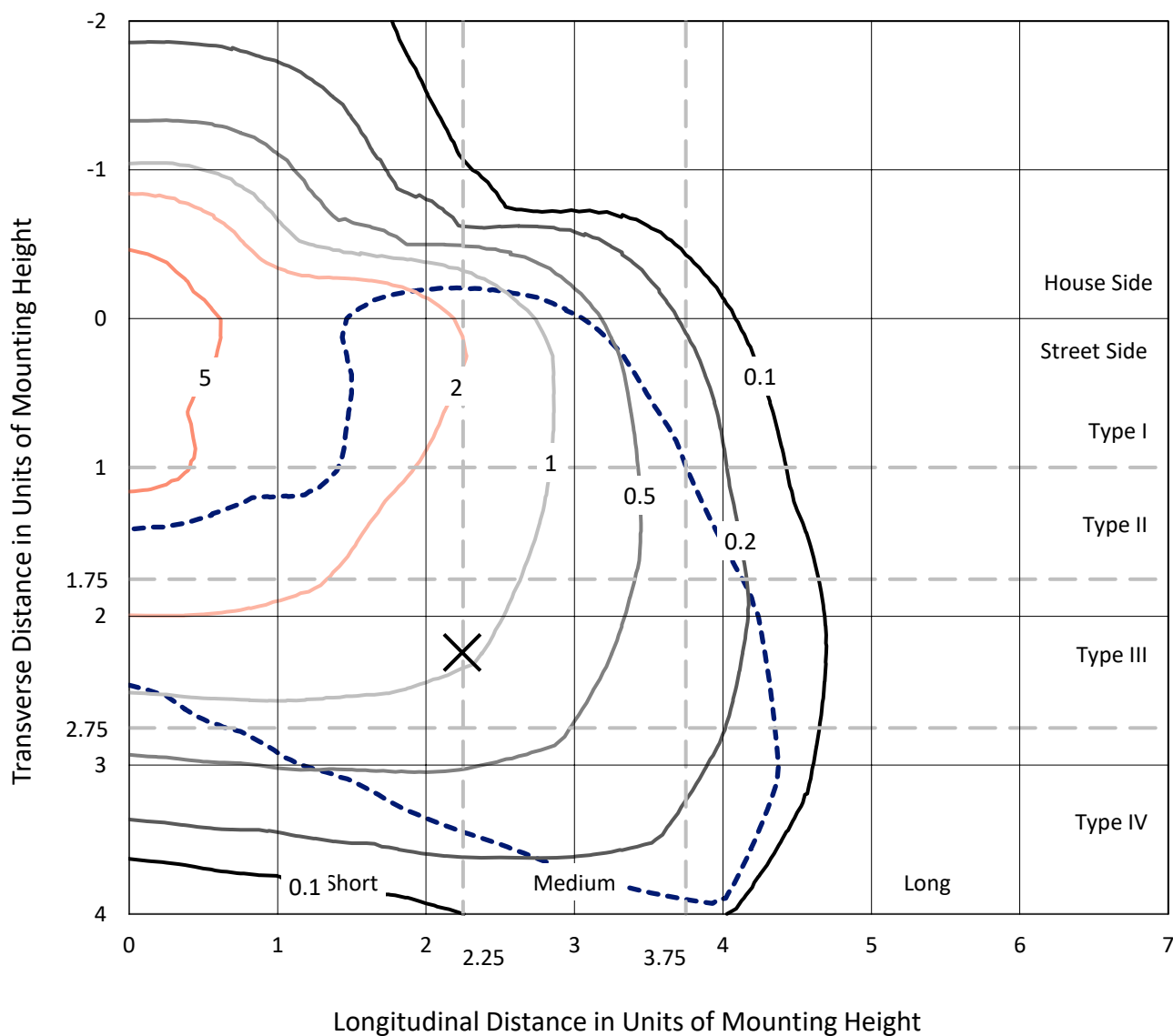
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

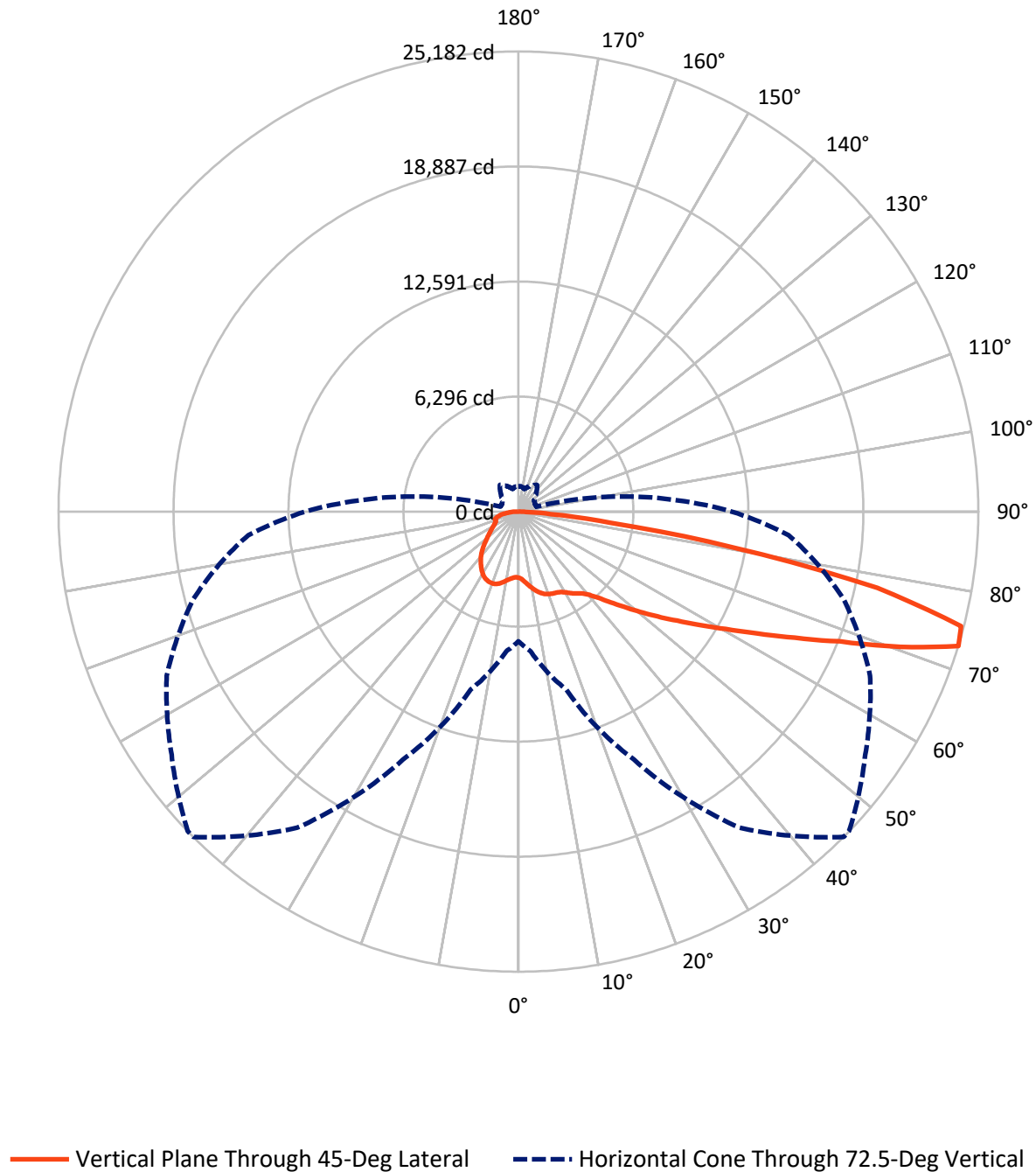


Based on 25 foot mounting height. Maximum calculated value = 7.2 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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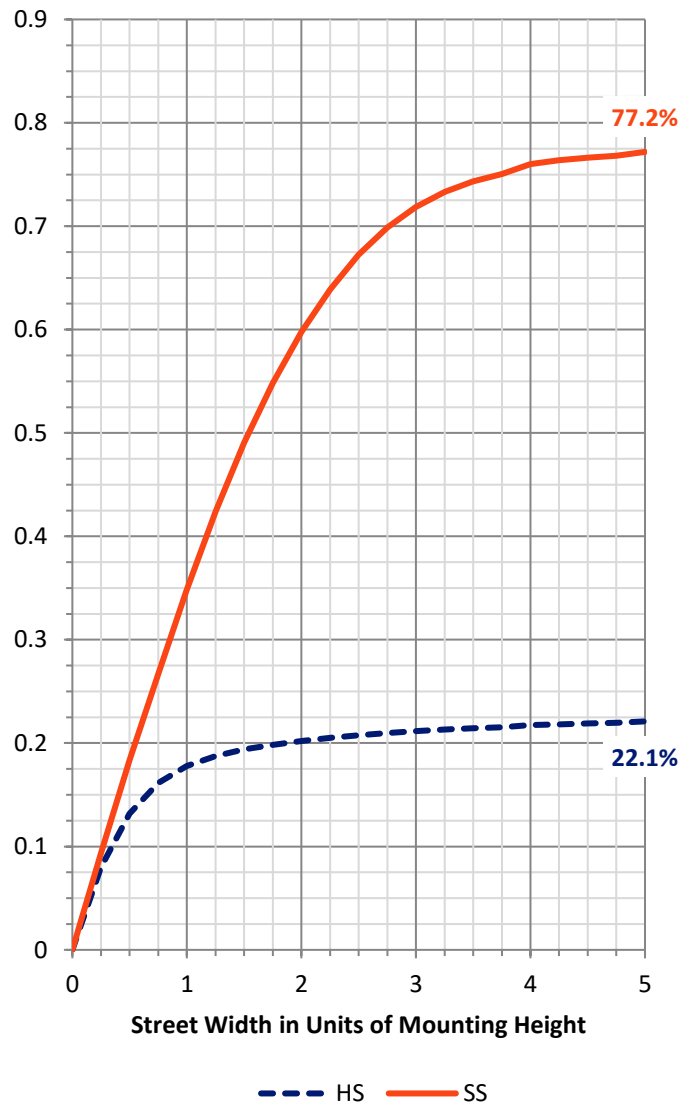
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8115.0	0.0	8115.0
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	27781.6	0.0	27781.6
	% Fixture	77.4	0.0	77.4
Total	Lumens	35896.5	0.0	35896.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	368.6	1.0
10°-20°	1228.9	3.4
20°-30°	2137.7	6.0
30°-40°	3064.5	8.5
40°-50°	4315.0	12.0
50°-60°	6609.3	18.4
60°-70°	9574.5	26.7
70°-80°	7645.8	21.3
80°-90°	952.3	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°	35896.5	100.0
0°-180°	35896.5	100.0

Coefficient of Utilization



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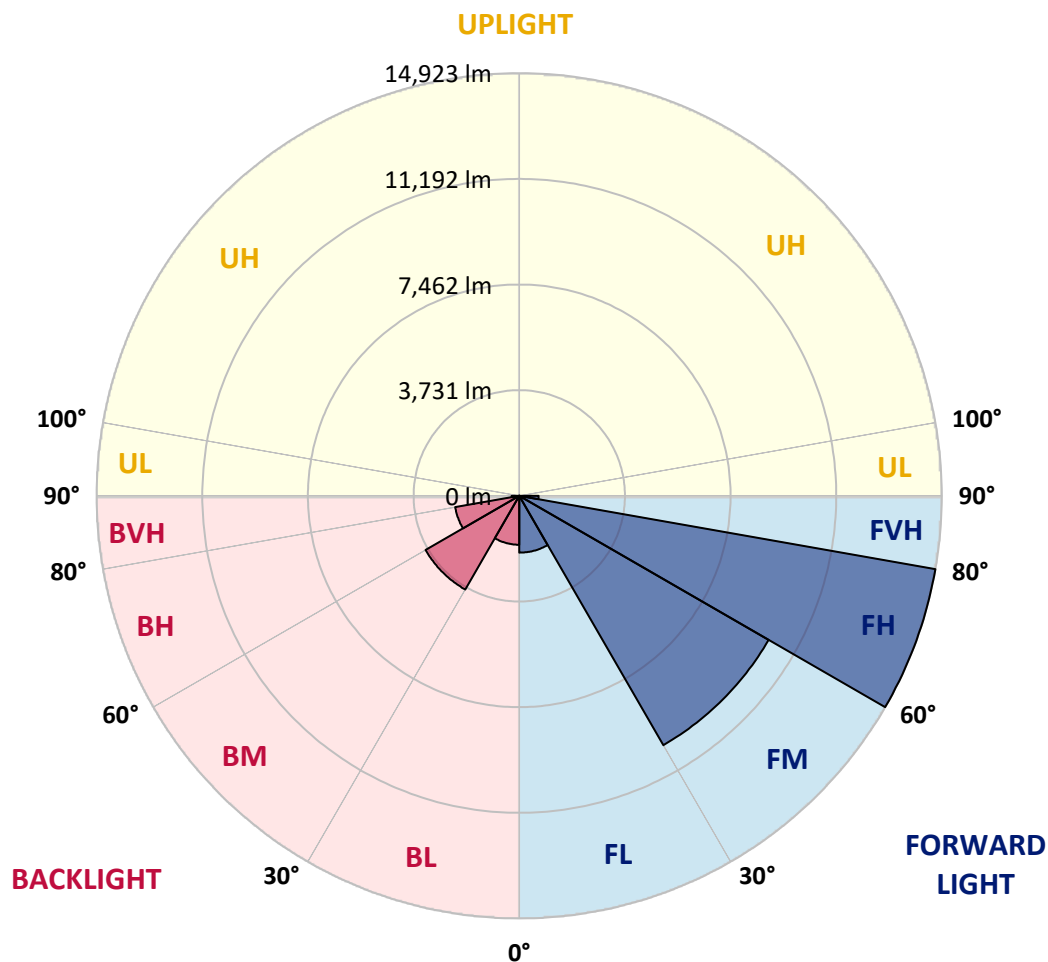
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2007.4	5.6			
FM	(30°-60°)	10167.8	28.3			
FH	(60°-80°)	14923.2	41.6			G5
FVH	(80°-90°)	683.2	1.9			G4/750
BL	(0°-30°)	1727.7	4.8	B3/2500		
BM	(30°-60°)	3821.0	10.6	B3/5000		
BH	(60°-80°)	2297.1	6.4	B3/2500		G3/2500
BVH	(80°-90°)	269.1	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°	3621.2	3621.2	3621.2	3621.2	3621.2	3621.2	3621.2	3621.2	3621.2	3621.2	3621.2
2.5°	3763.1	3787.7	3764.9	3744.2	3734.7	3710.1	3708.2	3693.1	3683.6	3657.2	3649.6
5°	4025.9	4058.1	4020.3	3978.6	3940.8	3880.3	3872.8	3829.3	3780.1	3723.4	3691.2
7.5°	4322.8	4351.2	4307.7	4245.2	4179.1	4078.9	4077.0	3997.6	3920.0	3823.6	3768.7
10°	4581.9	4619.7	4561.0	4476.0	4392.7	4279.4	4266.0	4175.3	4077.0	3952.2	3869.0
12.5°	4810.7	4837.2	4780.4	4676.5	4580.0	4466.5	4449.5	4349.3	4239.6	4097.7	3991.9
15°	4992.3	5026.3	4950.6	4839.0	4736.9	4625.4	4610.2	4519.5	4409.9	4260.4	4124.3
17.5°	5111.4	5139.8	5062.2	4937.4	4839.0	4746.4	4735.1	4659.4	4563.0	4411.7	4266.0
20°	5156.8	5187.0	5105.7	4979.0	4888.2	4816.4	4810.7	4755.9	4689.7	4551.6	4404.1
22.5°	5202.2	5230.5	5124.6	4992.3	4912.8	4867.4	4865.6	4829.6	4803.2	4689.7	4546.0
25°	5385.6	5393.1	5251.3	5060.3	4946.9	4907.2	4905.2	4903.4	4914.7	4825.8	4699.1
27.5°	5544.4	5542.5	5421.5	5241.8	5066.0	4982.7	4980.9	4999.8	5035.7	4962.0	4858.0
30°	5777.0	5756.2	5612.5	5425.2	5264.5	5136.0	5124.6	5107.6	5136.0	5077.3	5016.9
32.5°	6270.5	6204.3	5971.8	5638.9	5429.0	5330.7	5315.5	5209.7	5221.0	5185.1	5154.8
35°	6977.8	6890.8	6580.7	6043.6	5633.3	5493.4	5485.8	5351.5	5328.9	5296.7	5308.1
37.5°	7819.3	7711.5	7350.3	6629.8	5985.0	5682.5	5671.1	5550.1	5457.4	5423.4	5487.6
40°	8664.5	8528.4	8229.6	7344.6	6503.1	5998.2	5962.3	5778.8	5673.0	5616.3	5752.4
42.5°	9485.2	9371.8	9116.5	8146.4	7142.3	6459.7	6380.2	6066.4	5986.9	5933.9	6179.8
45°	10211.4	10109.3	9922.1	9003.1	7891.2	7087.5	7010.0	6497.5	6472.9	6472.9	6828.3
47.5°	10801.3	10778.7	10580.2	9876.7	8774.2	7802.3	7668.0	7096.9	7163.1	7265.2	7749.3
50°	11455.7	11393.3	11181.5	10737.1	9812.4	8621.1	8511.4	7832.5	8080.3	8360.1	9080.6
52.5°	12057.0	12091.0	11854.6	11633.4	10984.8	9534.4	9341.5	8700.5	9235.7	9699.0	10640.6
55°	12675.4	12677.2	12611.1	12580.8	12214.0	10544.2	10332.4	9744.3	10595.2	11170.1	12459.8
57.5°	13255.9	13259.7	13358.0	13624.6	13639.8	11709.1	11468.9	11026.4	12106.2	12692.4	14335.6
60°	13774.1	13800.5	14069.0	14693.1	14893.5	13044.2	12817.2	12541.1	13668.2	14258.2	16308.0
62.5°	13948.0	14044.4	14642.0	15528.9	16132.1	14681.7	14458.5	14294.0	15309.5	15857.9	17956.9
65°	13653.0	13874.3	15029.7	16219.1	17406.7	16627.6	16406.3	16226.7	17015.2	17531.4	19310.9
67.5°	12928.7	13214.3	15006.9	16943.4	18953.5	18968.5	18762.5	18340.8	18843.8	19042.3	19751.4
70°	11020.7	11448.1	13685.2	17213.7	20729.1	22170.0	21971.5	20886.1	20668.6	19708.0	18511.0
72.5°	7100.7	7675.6	10077.1	14988.1	21124.3	25182.4	25171.0	23183.7	21245.4	18414.5	14846.2
75°	2590.7	2942.4	4682.1	9407.8	17731.9	25029.3	25103.0	22790.3	19394.0	14224.1	9248.9
77.5°	943.6	1032.5	1528.0	3615.6	10905.4	20082.4	20235.6	18219.8	13804.3	7138.5	3664.8
80°	495.5	544.6	782.9	1403.1	4672.7	11926.5	12166.6	10827.9	6488.0	2150.0	1098.7
82.5°	274.2	296.8	438.7	762.1	2104.6	5100.0	5243.7	4277.4	2282.5	911.4	453.9
85°	147.5	156.9	206.1	416.0	1028.7	1768.1	1807.8	1278.3	909.6	535.2	219.4
87.5°	43.5	53.0	68.1	132.3	402.8	397.1	406.5	253.4	359.3	270.4	71.9
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°	3621.2	3621.2	3621.2	3621.2	3621.2	3621.2	3621.2	3621.2	3621.2	3621.2	3621.2
2.5°	3638.2	3632.6	3611.8	3602.4	3591.0	3589.1	3598.6	3600.4	3602.4	3604.2	3611.8
5°	3672.3	3653.4	3634.5	3623.2	3627.0	3628.8	3647.8	3661.0	3670.4	3678.0	3681.8
7.5°	3738.5	3723.4	3691.2	3689.4	3695.0	3712.0	3736.6	3766.9	3783.9	3797.1	3800.9
10°	3836.9	3808.5	3770.7	3776.3	3787.7	3812.3	3863.3	3887.9	3916.2	3940.8	3935.2
12.5°	3937.0	3912.4	3869.0	3872.8	3891.7	3935.2	3984.4	4014.6	4033.5	4052.4	4059.9
15°	4067.5	4024.0	3976.8	3976.8	4010.8	4058.1	4080.7	4105.3	4116.7	4137.5	4145.1
17.5°	4201.8	4145.1	4082.7	4078.9	4120.5	4143.2	4156.4	4160.2	4164.0	4186.7	4194.2
20°	4336.1	4273.6	4184.8	4177.2	4186.7	4182.9	4181.0	4177.2	4182.9	4211.2	4222.6
22.5°	4468.4	4396.5	4273.6	4239.6	4213.2	4177.2	4175.3	4173.4	4177.2	4205.6	4224.5
25°	4623.5	4536.5	4372.0	4269.8	4181.0	4131.9	4137.5	4139.4	4143.2	4165.9	4196.1
27.5°	4791.8	4695.3	4462.7	4260.4	4099.7	4065.7	4056.2	4061.9	4075.1	4111.1	4146.9
30°	4960.1	4846.6	4546.0	4222.6	3997.6	3950.2	3920.0	3933.2	3974.8	4010.8	4050.5
32.5°	5113.2	4999.8	4612.2	4139.4	3867.1	3793.3	3753.7	3770.7	3812.3	3825.5	3872.8
35°	5292.9	5164.4	4640.5	4007.0	3725.3	3611.8	3558.9	3534.3	3555.1	3541.9	3583.4
37.5°	5493.4	5359.1	4636.7	3833.1	3558.9	3428.4	3354.6	3262.0	3218.5	3173.1	3201.5
40°	5790.2	5597.3	4591.4	3623.2	3352.8	3233.6	3101.2	2944.3	2845.9	2757.0	2762.8
42.5°	6194.9	5928.3	4508.2	3392.4	3120.1	3008.6	2828.9	2645.5	2490.4	2342.9	2329.7
45°	6798.1	6361.4	4404.1	3146.6	2868.7	2759.0	2564.2	2358.1	2182.2	1993.1	1970.5
47.5°	7668.0	6943.8	4305.8	2866.7	2603.9	2503.7	2327.8	2136.8	1928.8	1745.4	1724.6
50°	8863.1	7779.5	4215.0	2594.5	2342.9	2267.3	2127.4	1932.6	1722.7	1575.2	1565.8
52.5°	10383.5	8916.1	4177.2	2331.6	2099.0	2070.6	1959.1	1777.6	1579.0	1454.2	1444.7
55°	12128.8	10275.7	4177.2	2080.1	1885.3	1894.8	1817.2	1648.9	1476.8	1365.3	1353.9
57.5°	13910.2	11652.3	4101.5	1847.5	1703.8	1743.5	1694.3	1546.8	1391.7	1276.4	1257.5
60°	15551.6	12805.8	3795.3	1635.7	1543.0	1605.5	1573.3	1446.6	1257.5	1161.1	1145.9
62.5°	16812.9	13456.3	3205.3	1467.4	1410.7	1482.6	1465.5	1314.3	1233.0	1193.2	1180.0
65°	17444.5	13350.4	2450.8	1318.0	1299.1	1410.7	1374.7	1369.1	1304.8	1259.4	1244.2
67.5°	17056.8	12439.0	1777.6	1208.4	1234.8	1344.5	1482.6	1505.2	1386.1	1297.2	1282.1
70°	15356.8	10790.1	1323.7	1104.3	1153.5	1346.4	1690.5	1575.2	1359.7	1255.6	1238.6
72.5°	11682.5	8046.1	1026.8	994.7	1047.7	1355.9	1783.2	1543.0	1284.0	1388.0	1376.7
75°	6680.8	4417.3	824.5	860.4	915.2	1267.0	1735.9	1459.8	1225.4	1274.5	1274.5
77.5°	2547.1	1698.1	680.8	728.1	735.6	1106.3	1660.3	1454.2	1166.8	1138.4	1038.1
80°	883.1	663.8	563.5	578.6	569.2	983.3	1592.2	1265.1	955.0	854.7	826.4
82.5°	361.2	331.0	446.3	427.3	404.7	763.9	1285.9	1034.3	780.9	690.2	682.6
85°	156.9	209.9	295.0	259.0	234.5	529.5	1030.6	875.6	660.0	569.2	567.3
87.5°	32.2	79.4	124.8	117.3	121.1	353.6	731.8	622.2	467.1	349.8	274.2
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)