

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: P970902

Luminaire Tested: **NAV-SB6C-735-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970902
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6C-735-U-T4FT
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46008.1 lumens
Efficiency: N/A
Efficacy: 152.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 300.9
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

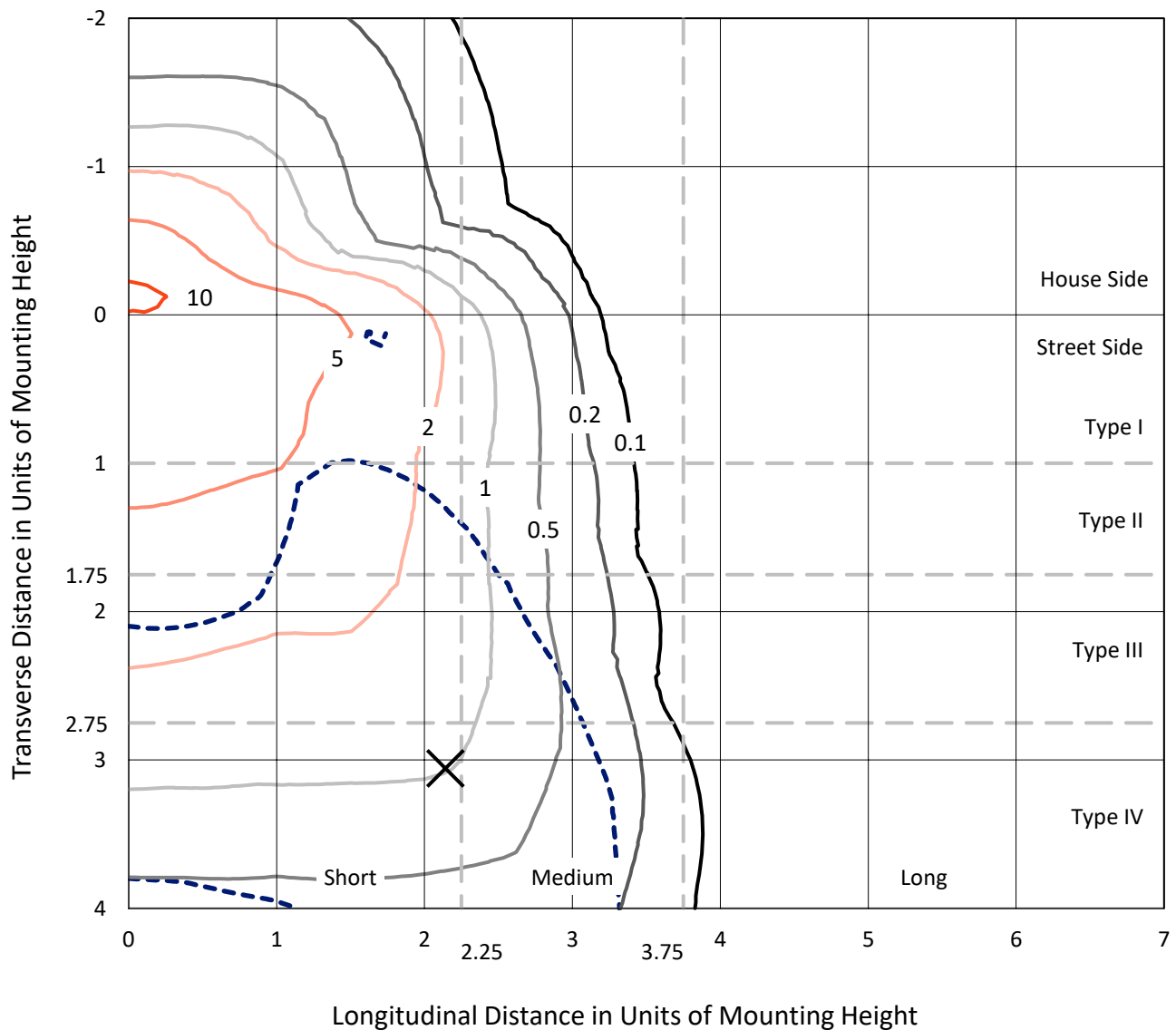


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Iso-Footcandle Lines of Horizontal Illumination

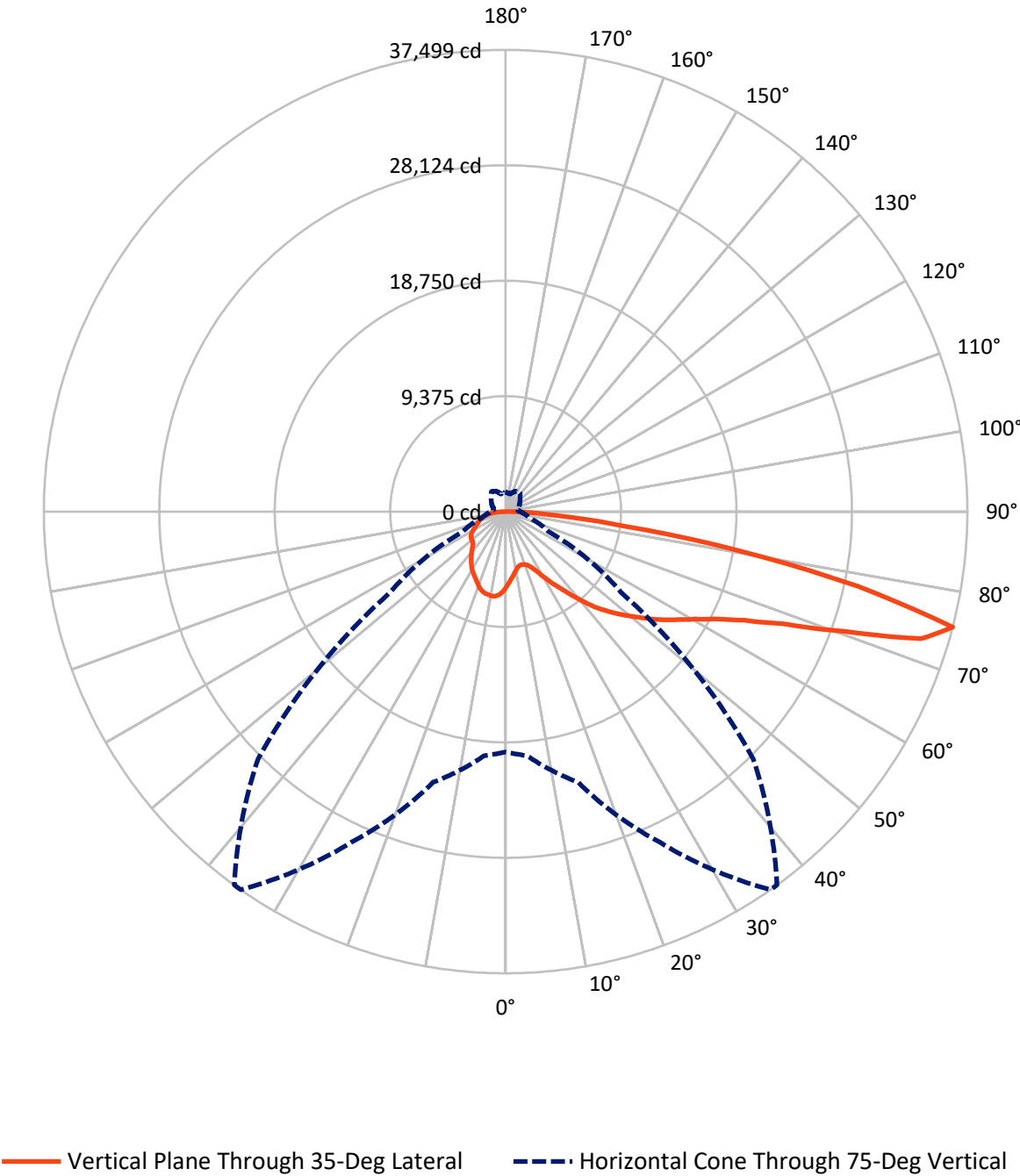
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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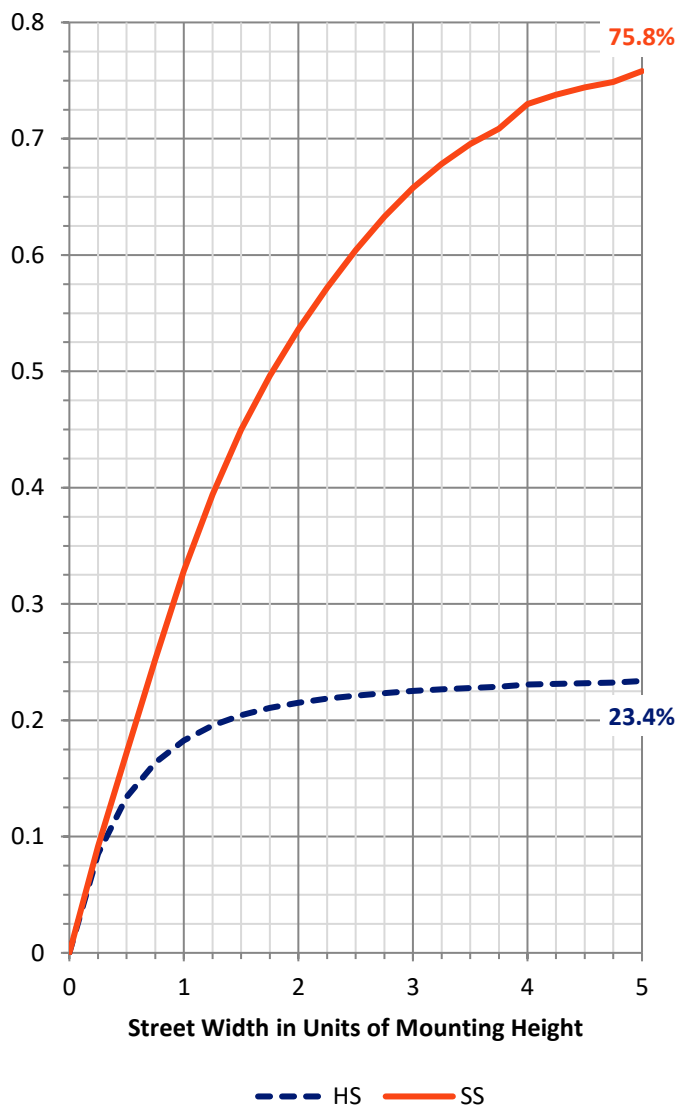
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10948.8	0.0	10948.8
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	35059.4	0.0	35059.4
	% Fixture	76.2	0.0	76.2
Total	Lumens	46008.1	0.0	46008.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	580.5	1.3
10°-20°	1674.3	3.6
20°-30°	2811.6	6.1
30°-40°	4369.7	9.5
40°-50°	6485.8	14.1
50°-60°	8954.0	19.5
60°-70°	10863.3	23.6
70°-80°	8977.7	19.5
80°-90°	1291.3	2.8
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°	46008.1	100.0
0°-180°	46008.1	100.0

Coefficient of Utilization



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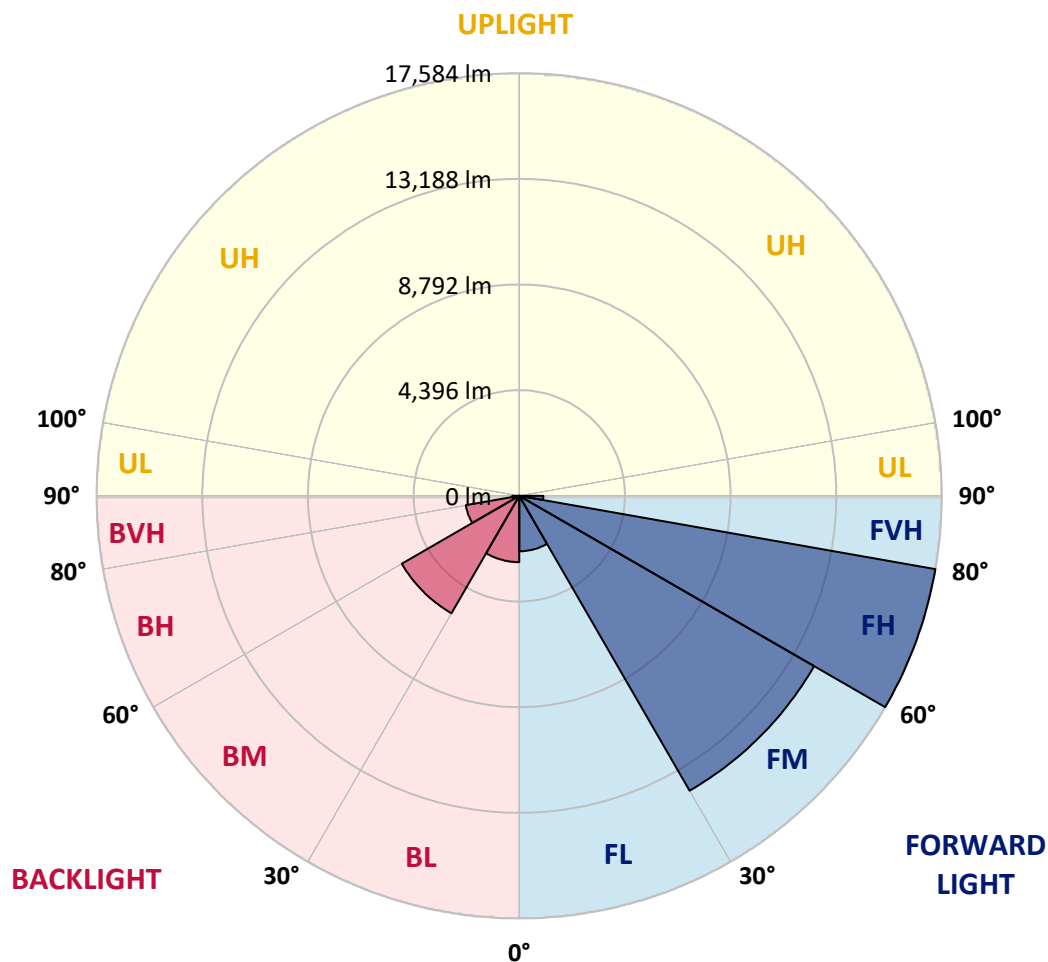
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2307.2	5.0			
FM	(30°-60°)	14168.0	30.8			
FH	(60°-80°)	17583.6	38.2			G5
FVH	(80°-90°)	1000.5	2.2			G5
BL	(0°-30°)	2759.2	6.0	B4/5000		
BM	(30°-60°)	5641.5	12.3	B4/8500		
BH	(60°-80°)	2257.3	4.9	B3/2500		G3/2500
BVH	(80°-90°)	290.8	0.6			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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	6130.9	6130.9	6130.9	6130.9	6130.9	6130.9	6130.9	6130.9	6130.9	6130.9	6130.9
2.5°	5653.4	5688.1	5703.1	5695.6	5732.9	5728.0	5780.2	5844.9	5934.4	6021.5	6148.3
5°	5218.1	5255.4	5287.8	5317.6	5389.8	5412.1	5494.2	5618.5	5782.7	5949.3	6158.3
7.5°	4812.7	4845.1	4894.8	4949.5	5071.4	5093.7	5230.6	5424.5	5653.4	5897.1	6185.6
10°	4481.9	4514.2	4566.5	4628.6	4780.4	4807.8	4981.8	5240.5	5539.0	5847.3	6215.5
12.5°	4340.2	4350.1	4379.9	4442.1	4574.0	4591.3	4782.9	5078.8	5427.1	5810.0	6260.2
15°	4332.7	4352.6	4355.0	4387.4	4496.8	4504.3	4680.9	4974.3	5357.4	5802.6	6327.4
17.5°	4407.3	4422.2	4399.8	4419.7	4511.7	4524.1	4663.4	4924.6	5335.0	5834.9	6441.8
20°	4606.2	4618.6	4551.5	4524.1	4591.3	4601.3	4738.1	4956.9	5357.4	5902.1	6598.4
22.5°	5029.1	5036.5	4872.3	4760.5	4765.4	4770.5	4889.8	5088.8	5444.4	6023.9	6797.5
25°	5688.1	5683.2	5422.0	5205.7	5081.3	5054.0	5133.5	5302.6	5591.2	6185.6	7053.6
27.5°	6459.2	6421.9	6160.8	5837.4	5566.3	5526.5	5509.1	5581.2	5800.1	6399.5	7367.0
30°	7329.7	7294.9	7013.9	6591.1	6215.5	6150.8	5986.6	5949.3	6111.0	6690.5	7802.3
32.5°	8284.8	8262.4	7926.6	7414.2	6911.9	6837.3	6561.2	6461.7	6588.5	7130.7	8409.2
35°	9085.7	9065.8	8787.2	8260.0	7645.6	7553.5	7272.5	7160.5	7225.2	7695.3	9202.6
37.5°	9809.5	9799.5	9560.7	9145.4	8511.1	8399.2	8083.4	8046.0	8033.5	8439.0	10165.1
40°	10480.9	10456.1	10207.4	9988.5	9518.5	9416.5	9137.9	9105.6	9011.1	9354.3	11254.5
42.5°	11224.7	11160.0	10799.3	10697.3	10570.5	10486.0	10319.3	10324.3	10115.3	10386.4	12408.5
45°	11831.5	11794.2	11423.6	11364.0	11500.7	11465.9	11610.2	11647.5	11242.1	11468.4	13607.4
47.5°	12483.2	12448.3	12135.0	12092.6	12463.3	12473.2	12983.1	12995.5	12341.4	12592.6	14808.7
50°	13286.6	13236.7	12925.9	12978.1	13393.5	13430.8	14363.4	14278.9	13353.7	13734.2	16000.0
52.5°	13816.3	13846.1	13779.0	13863.5	14430.6	14465.4	15721.4	15505.1	14356.0	14860.9	17169.0
55°	14206.8	14266.5	14475.4	14669.4	15525.0	15559.8	17002.4	16671.5	15186.7	15905.5	18268.4
57.5°	14709.2	14624.6	15015.1	15393.1	16564.6	16656.7	18248.5	17795.7	15923.0	16805.9	19021.9
60°	15430.5	15370.8	15674.2	16233.8	17728.6	17875.4	19566.6	18808.0	16462.6	17519.7	19168.7
62.5°	16892.9	16743.7	16790.9	17285.9	19196.1	19390.0	21054.0	19691.0	16731.3	17798.3	18382.8
65°	19079.1	18823.0	18584.2	18927.4	21262.9	21454.4	22732.9	20384.9	16631.8	17258.5	16296.0
67.5°	21832.5	21578.8	21285.3	21608.6	24307.2	24459.0	24804.6	20775.4	15848.3	15179.2	12607.5
70°	24103.3	24008.8	24359.4	25690.1	29169.7	29174.6	27461.0	20452.0	13701.9	10762.0	7294.9
72.5°	23802.3	23745.1	25593.1	29706.9	35298.0	35166.2	29975.5	18004.7	9229.9	4855.0	2733.4
75°	19526.9	19897.4	22760.2	29634.7	37499.2	37481.8	28436.0	11446.0	3817.8	2012.2	1412.8
77.5°	10471.0	11058.0	14776.3	21879.8	29274.1	29714.3	19991.9	4004.4	1639.1	1288.3	977.4
80°	3414.9	3927.3	5889.6	11140.1	19021.9	18939.8	8568.3	1571.9	1121.8	912.8	676.5
82.5°	1450.1	1509.7	2631.5	5260.4	9762.2	9610.5	2728.4	902.8	788.4	624.3	417.9
85°	567.0	634.3	1161.5	2432.4	4228.2	4136.2	984.9	447.7	504.9	407.8	248.8
87.5°	186.5	226.3	415.3	833.2	1315.7	1268.4	241.3	154.2	218.8	186.5	89.6
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°	6130.9	6130.9	6130.9	6130.9	6130.9	6130.9	6130.9	6130.9	6130.9	6130.9	6130.9
2.5°	6183.1	6222.9	6270.1	6339.8	6399.5	6449.3	6501.5	6533.9	6546.3	6583.6	6581.1
5°	6227.9	6314.9	6431.9	6546.3	6658.2	6725.3	6785.0	6814.9	6842.2	6862.2	6867.1
7.5°	6302.5	6414.4	6598.4	6747.7	6842.2	6896.9	6936.8	6926.7	6936.8	6941.7	6949.2
10°	6367.2	6523.9	6742.8	6884.5	6956.7	6959.1	6949.2	6914.3	6896.9	6899.5	6904.4
12.5°	6444.3	6618.4	6854.7	6974.1	6994.0	6939.2	6896.9	6837.3	6814.9	6804.9	6800.0
15°	6548.7	6747.7	6976.6	7021.4	6971.5	6901.9	6829.8	6732.8	6683.0	6643.2	6655.7
17.5°	6675.6	6894.5	7071.1	7038.7	6931.8	6817.4	6700.4	6553.7	6451.8	6409.4	6412.0
20°	6852.2	7048.6	7143.2	7001.4	6839.7	6665.7	6466.6	6287.6	6193.0	6150.8	6145.8
22.5°	7066.0	7255.1	7212.8	6936.8	6707.9	6429.3	6180.6	6048.8	6001.6	5971.8	5976.7
25°	7322.3	7483.9	7262.5	6842.2	6491.5	6116.0	5924.5	5882.2	5859.8	5837.4	5837.4
27.5°	7655.5	7742.5	7299.8	6703.0	6153.3	5782.7	5713.0	5720.5	5713.0	5675.7	5683.2
30°	8095.8	8078.3	7334.7	6476.6	5765.3	5481.7	5486.7	5519.0	5524.0	5499.1	5511.6
32.5°	8675.3	8498.7	7352.1	6183.1	5394.7	5218.1	5223.1	5257.9	5282.7	5240.5	5260.4
35°	9376.7	8988.6	7324.8	5815.0	5108.7	4966.9	4929.6	4939.6	4947.0	4907.2	4934.6
37.5°	10195.0	9538.3	7202.9	5407.1	4872.3	4720.6	4641.1	4574.0	4534.1	4496.8	4521.7
40°	11092.9	10137.8	6979.0	5009.2	4608.7	4459.5	4340.2	4213.3	4079.0	4029.3	4051.6
42.5°	12033.0	10754.6	6707.9	4628.6	4305.3	4183.4	4056.5	3872.6	3671.0	3569.2	3581.6
45°	13008.0	11386.3	6441.8	4253.0	3994.4	3942.2	3795.5	3574.1	3355.2	3225.9	3215.9
47.5°	13963.1	11983.3	6051.3	3875.0	3703.4	3760.6	3646.2	3442.3	3198.5	2994.5	2972.2
50°	14875.8	12542.8	5412.1	3492.0	3467.2	3705.9	3596.4	3303.0	3024.4	2763.3	2740.8
52.5°	15781.1	12995.5	4593.8	3143.8	3340.3	3691.0	3531.8	3208.5	2867.7	2594.2	2564.2
55°	16549.6	13229.3	3805.4	2845.3	3156.2	3564.1	3454.7	3096.5	2646.3	2355.3	2330.4
57.5°	16987.4	13040.3	3148.8	2551.8	2902.5	3355.2	3322.8	2857.8	2382.7	2158.9	2129.0
60°	16798.4	12274.3	2611.5	2295.7	2661.3	3128.9	3094.1	2621.4	2181.3	1969.8	1940.0
62.5°	15756.3	10814.3	2186.2	2071.8	2442.4	2897.6	2865.2	2439.9	2027.0	1823.1	1790.8
65°	13657.1	8797.2	1855.5	1885.3	2221.1	2619.0	2666.2	2288.2	1905.2	1706.2	1673.8
67.5°	10416.4	6372.1	1596.7	1723.6	2004.7	2345.4	2482.2	2178.7	1803.2	1614.2	1584.3
70°	5936.9	3618.9	1377.9	1566.9	1813.1	2091.7	2340.5	2091.7	1693.8	1537.1	1517.2
72.5°	2250.9	1661.4	1191.4	1410.2	1629.1	1877.8	2183.8	1954.9	1566.9	1450.1	1430.1
75°	1201.3	1012.3	1002.3	1226.2	1417.7	1668.9	1987.3	1820.6	1472.4	1532.1	1581.9
77.5°	818.3	716.3	838.1	1049.6	1186.3	1437.6	1778.4	1616.6	1275.9	1270.9	1171.5
80°	567.0	507.4	681.5	845.6	917.8	1208.8	1552.0	1387.8	1039.7	970.0	927.7
82.5°	340.7	330.8	509.8	631.7	649.1	932.6	1285.9	1164.0	850.6	741.2	746.2
85°	186.5	196.5	325.8	370.6	378.0	651.6	1007.3	900.4	654.2	549.7	554.6
87.5°	52.3	67.1	119.4	146.8	181.5	338.2	599.4	534.7	328.3	228.8	228.8
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)