

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: P971615

Luminaire Tested: **NAV-SB6D-835-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971615
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-SB6D-835-U-T4FT
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 57985.3 lumens
Efficiency: N/A
Efficacy: 131.8 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): 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

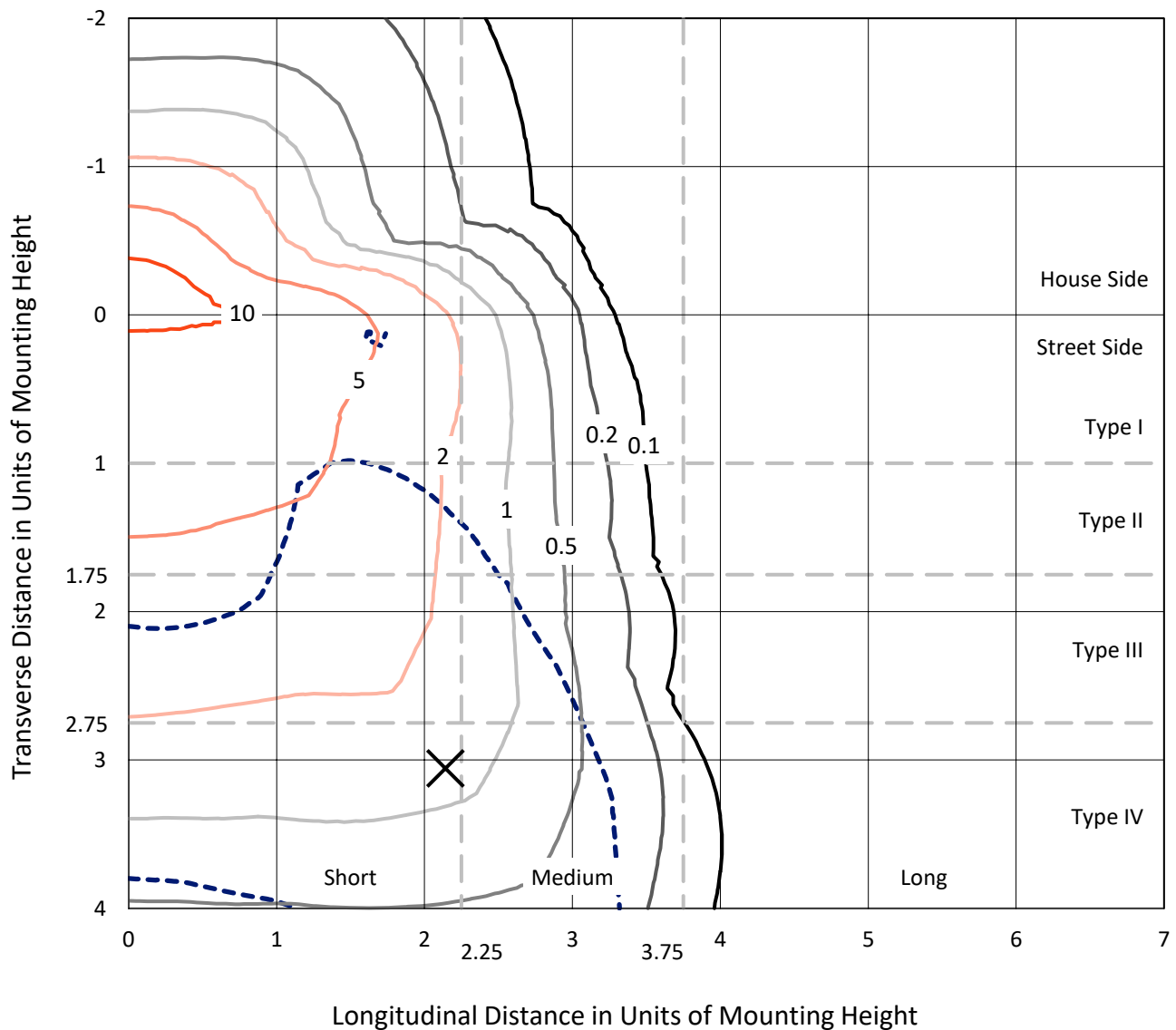


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Iso-Footcandle Lines of Horizontal Illumination

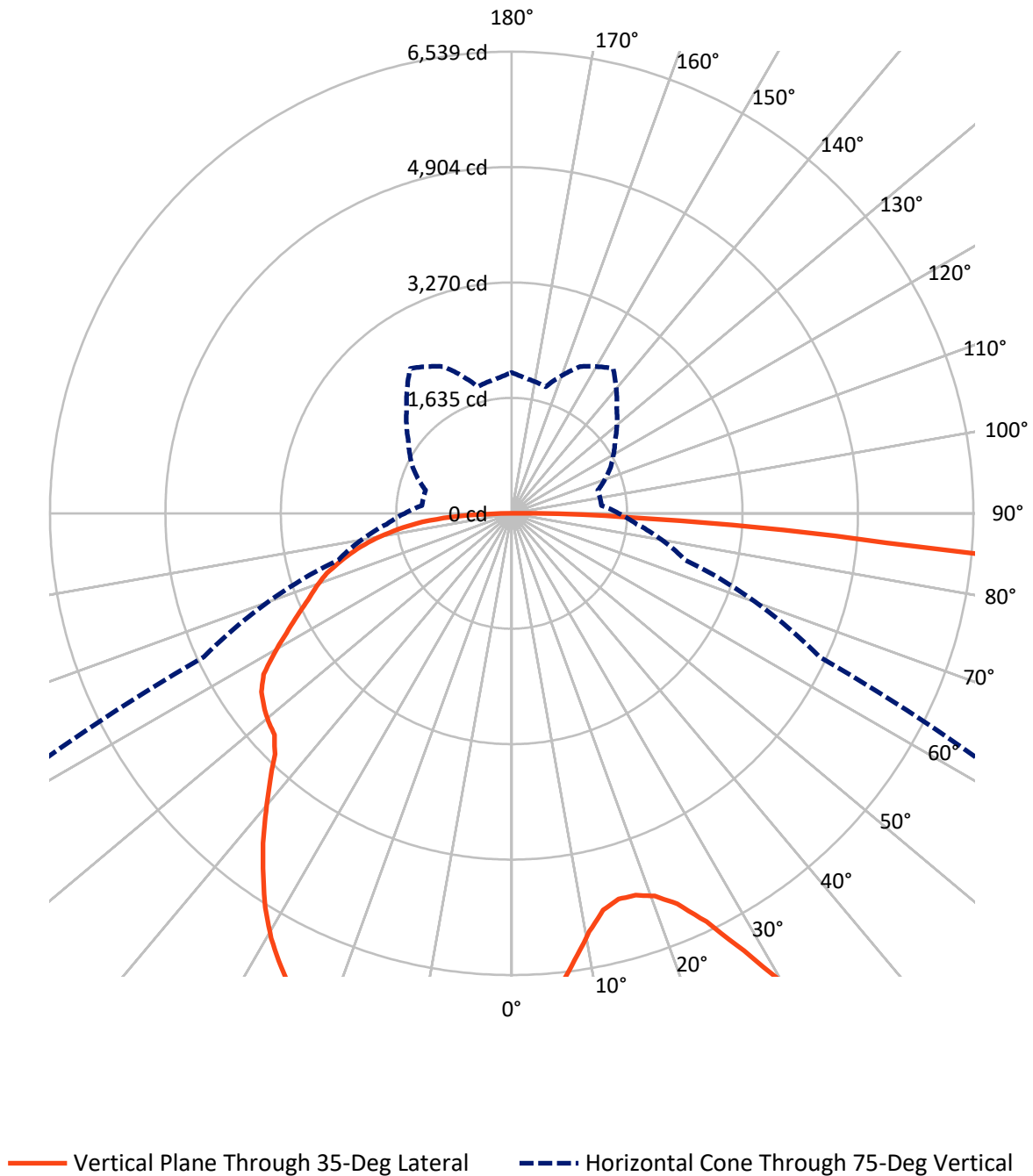
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.7 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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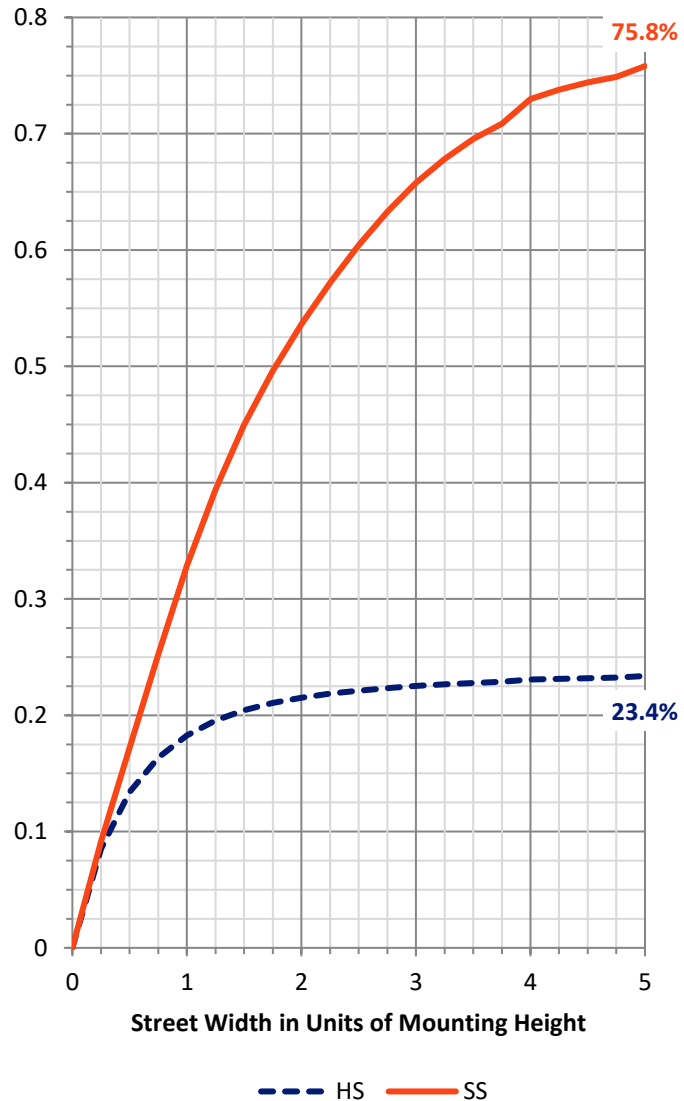
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13799.0	0.0	13799.0
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	44186.2	0.0	44186.2
	% Fixture	76.2	0.0	76.2
Total	Lumens	57985.3	0.0	57985.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	731.6	1.3
10°-20°	2110.2	3.6
20°-30°	3543.6	6.1
30°-40°	5507.2	9.5
40°-50°	8174.2	14.1
50°-60°	11285.0	19.5
60°-70°	13691.3	23.6
70°-80°	11314.8	19.5
80°-90°	1627.4	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°	57985.3	100.0
0°-180°	57985.3	100.0

Coefficient of Utilization



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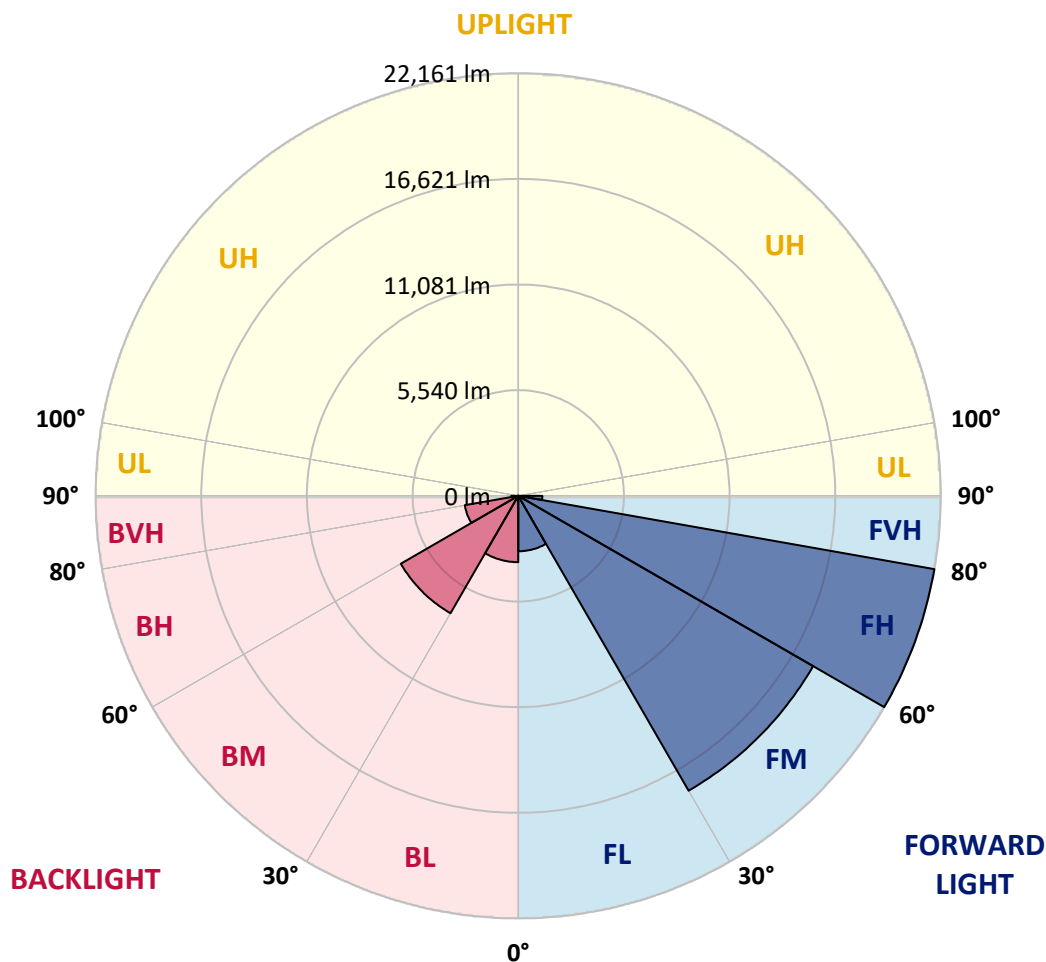
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2907.8	5.0			
FM	(30°-60°)	17856.3	30.8			
FH	(60°-80°)	22161.1	38.2			G5
FVH	(80°-90°)	1261.0	2.2			G5
BL	(0°-30°)	3477.5	6.0	B4/5000		
BM	(30°-60°)	7110.1	12.3	B4/8500		
BH	(60°-80°)	2844.9	4.9	B4/5000		G4/5000
BVH	(80°-90°)	366.5	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°	7727.0	7727.0	7727.0	7727.0	7727.0	7727.0	7727.0	7727.0	7727.0	7727.0	7727.0
2.5°	7125.1	7169.0	7187.8	7178.4	7225.4	7219.1	7285.0	7366.5	7479.3	7589.0	7748.9
5°	6576.5	6623.6	6664.2	6701.9	6792.8	6821.0	6924.5	7081.2	7288.1	7498.1	7761.4
7.5°	6065.5	6106.3	6169.0	6237.9	6391.6	6419.8	6592.2	6836.6	7125.1	7432.3	7795.8
10°	5648.7	5689.4	5755.3	5833.6	6024.8	6059.3	6278.7	6604.7	6980.9	7369.5	7833.5
12.5°	5470.0	5482.5	5520.1	5598.4	5764.6	5786.5	6027.9	6400.9	6839.8	7322.6	7889.9
15°	5460.6	5485.7	5488.8	5529.6	5667.4	5676.9	5899.4	6269.3	6752.1	7313.2	7974.6
17.5°	5554.6	5573.4	5545.2	5570.3	5686.3	5702.0	5877.5	6206.6	6723.8	7353.9	8118.7
20°	5805.4	5821.1	5736.4	5702.0	5786.5	5799.1	5971.5	6247.4	6752.1	7438.5	8316.2
22.5°	6338.3	6347.7	6140.8	5999.7	6006.0	6012.2	6162.7	6413.5	6861.8	7592.2	8567.1
25°	7169.0	7162.7	6833.6	6560.8	6404.1	6369.7	6469.9	6683.1	7046.7	7795.8	8889.9
27.5°	8140.8	8093.7	7764.6	7357.0	7015.4	6965.2	6943.2	7034.2	7310.0	8065.5	9284.9
30°	9237.8	9193.9	8839.7	8306.8	7833.5	7752.0	7545.1	7498.1	7701.8	8432.3	9833.4
32.5°	10441.6	10413.3	9990.2	9344.4	8711.2	8617.2	8269.2	8143.8	8303.7	8987.1	10598.3
35°	11450.9	11425.8	11074.7	10410.2	9635.9	9520.0	9165.8	9024.7	9106.2	9698.7	11598.2
37.5°	12363.0	12350.5	12049.6	11526.1	10726.8	10585.7	10187.7	10140.6	10124.9	10635.9	12811.4
40°	13209.5	13178.1	12864.7	12588.7	11996.3	11867.9	11516.7	11476.0	11356.9	11789.4	14184.4
42.5°	14146.7	14065.3	13610.7	13482.1	13322.3	13215.7	13005.7	13012.0	12748.6	13090.4	15638.8
45°	14911.6	14864.6	14397.5	14322.2	14494.6	14450.8	14632.6	14679.6	14168.7	14453.9	17149.7
47.5°	15732.8	15689.0	15294.0	15240.7	15707.8	15720.3	16362.9	16378.6	15554.2	15870.8	18663.7
50°	16745.3	16682.7	16290.8	16356.6	16880.1	16927.2	18102.6	17996.0	16830.0	17309.6	20165.2
52.5°	17413.0	17450.6	17366.0	17472.6	18187.3	18231.2	19814.2	19541.4	18093.2	18729.6	21638.6
55°	17905.2	17980.3	18243.7	18488.2	19566.5	19610.4	21428.5	21011.6	19140.2	20046.1	23024.1
57.5°	18538.4	18431.8	18924.0	19400.4	20876.8	20992.8	22998.9	22428.4	20068.1	21180.9	23973.8
60°	19447.4	19372.2	19754.6	20459.9	22343.9	22528.8	24660.4	23704.3	20748.3	22080.6	24158.8
62.5°	21290.6	21102.5	21162.0	21785.9	24193.3	24437.7	26534.9	24817.1	21086.8	22431.6	23168.3
65°	24046.0	23723.1	23422.2	23854.7	26798.2	27039.6	28650.8	25691.6	20961.5	21751.4	20538.2
67.5°	27516.0	27196.3	26826.4	27233.9	30635.0	30826.3	31262.0	26183.8	19974.1	19130.8	15889.6
70°	30377.9	30258.8	30700.8	32377.9	36763.3	36769.5	34609.7	25776.3	17268.8	13563.6	9193.9
72.5°	29998.7	29926.6	32255.6	37440.4	44487.0	44320.9	37778.9	22691.8	11632.7	6118.8	3445.0
75°	24610.1	25077.2	28685.2	37349.5	47261.2	47239.3	35838.5	14425.6	4811.7	2536.0	1780.5
77.5°	13196.9	13936.7	18623.0	27575.6	36894.9	37449.7	25196.3	5046.8	2065.8	1623.7	1231.9
80°	4303.9	4949.6	7422.8	14040.1	23973.8	23870.4	10798.9	1981.1	1413.7	1150.5	852.6
82.5°	1827.5	1902.7	3316.5	6629.8	12303.5	12112.3	3438.7	1137.9	993.7	786.8	526.6
85°	714.7	799.3	1463.9	3065.7	5328.9	5212.9	1241.3	564.3	636.3	514.0	313.4
87.5°	235.1	285.3	523.5	1050.1	1658.2	1598.7	304.0	194.3	275.8	235.1	112.9
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°	7727.0	7727.0	7727.0	7727.0	7727.0	7727.0	7727.0	7727.0	7727.0	7727.0	7727.0
2.5°	7792.8	7842.9	7902.4	7990.3	8065.5	8128.1	8194.0	8234.7	8250.4	8297.5	8294.3
5°	7849.1	7958.9	8106.2	8250.4	8391.5	8476.1	8551.4	8589.0	8623.4	8648.5	8654.8
7.5°	7943.2	8084.3	8316.2	8504.3	8623.4	8692.4	8742.5	8730.0	8742.5	8748.8	8758.2
10°	8024.7	8222.2	8498.1	8676.7	8767.6	8770.7	8758.2	8714.3	8692.4	8695.6	8701.8
12.5°	8121.9	8341.3	8639.1	8789.6	8814.7	8745.7	8692.4	8617.2	8589.0	8576.4	8570.1
15°	8253.5	8504.3	8792.8	8849.1	8786.4	8698.7	8607.7	8485.6	8422.8	8372.7	8388.3
17.5°	8413.4	8689.2	8911.9	8871.1	8736.3	8592.1	8444.8	8259.9	8131.3	8078.0	8081.1
20°	8635.9	8883.6	9002.8	8824.0	8620.4	8400.9	8150.1	7924.4	7805.3	7752.0	7745.7
22.5°	8905.6	9143.8	9090.5	8742.5	8454.2	8103.1	7789.6	7623.4	7563.9	7526.3	7532.6
25°	9228.4	9432.2	9153.2	8623.4	8181.4	7708.1	7466.7	7413.4	7385.2	7357.0	7357.0
27.5°	9648.4	9758.2	9200.2	8447.9	7755.2	7288.1	7200.3	7209.7	7200.3	7153.3	7162.7
30°	10203.3	10181.3	9244.1	8162.7	7266.1	6908.8	6915.1	6955.9	6962.1	6930.7	6946.4
32.5°	10933.7	10711.1	9266.0	7792.8	6799.0	6576.5	6582.8	6626.6	6658.0	6604.7	6629.8
35°	11817.6	11328.6	9231.6	7328.9	6438.5	6259.9	6212.9	6225.4	6234.9	6184.6	6219.2
37.5°	12849.0	12021.4	9078.0	6814.7	6140.8	5949.6	5849.3	5764.6	5714.5	5667.4	5698.8
40°	13980.6	12776.8	8795.8	6313.2	5808.5	5620.5	5470.0	5310.1	5140.9	5078.2	5106.3
42.5°	15165.5	13554.3	8454.2	5833.6	5426.0	5272.5	5112.6	4880.6	4626.7	4498.2	4513.9
45°	16394.3	14350.4	8118.7	5360.2	5034.3	4968.5	4783.5	4504.5	4228.6	4065.7	4053.2
47.5°	17597.9	15102.8	7626.6	4883.8	4667.5	4739.6	4595.4	4338.4	4031.1	3774.2	3746.0
50°	18748.4	15808.1	6821.0	4401.0	4369.7	4670.6	4532.8	4162.8	3811.8	3482.6	3454.4
52.5°	19889.4	16378.6	5789.7	3962.2	4209.9	4651.9	4451.2	4043.7	3614.3	3269.4	3231.8
55°	20858.0	16673.3	4796.0	3586.1	3977.9	4492.0	4354.0	3902.7	3335.2	2968.5	2937.1
57.5°	21409.7	16435.1	3968.5	3216.1	3658.1	4228.6	4187.9	3601.7	3003.0	2720.9	2683.2
60°	21171.5	15469.5	3291.4	2893.3	3354.1	3943.4	3899.5	3303.9	2749.0	2482.7	2445.0
62.5°	19858.0	13629.5	2755.4	2611.2	3078.3	3651.9	3611.1	3075.1	2554.7	2297.7	2256.9
65°	17212.4	11087.3	2338.4	2376.1	2799.3	3300.8	3360.4	2883.8	2401.2	2150.3	2109.7
67.5°	13128.0	8031.0	2012.5	2172.3	2526.5	2956.0	3128.4	2746.0	2272.6	2034.4	1996.8
70°	7482.4	4560.9	1736.6	1974.9	2285.1	2636.2	2949.7	2636.2	2134.7	1937.2	1912.1
72.5°	2836.9	2094.0	1501.5	1777.4	2053.2	2366.6	2752.2	2463.8	1974.9	1827.5	1802.5
75°	1514.0	1275.8	1263.3	1545.4	1786.8	2103.4	2504.6	2294.6	1855.8	1931.0	1993.6
77.5°	1031.3	902.8	1056.4	1322.9	1495.3	1811.8	2241.3	2037.5	1608.1	1601.8	1476.4
80°	714.7	639.5	858.8	1065.8	1156.7	1523.5	1956.0	1749.2	1310.3	1222.5	1169.2
82.5°	429.5	416.9	642.6	796.2	818.2	1175.5	1620.6	1467.0	1072.0	934.1	940.4
85°	235.1	247.6	410.6	467.1	476.4	821.2	1269.6	1134.8	824.4	692.8	699.0
87.5°	65.8	84.7	150.5	184.9	228.8	426.3	755.4	673.9	413.8	288.4	288.4
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)