

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: P964708

Luminaire Tested: **NAV-SB3C-830-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964708
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3C-830-U-AFL-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17645.4 lumens
Efficiency: N/A
Efficacy: 118.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 149.1
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

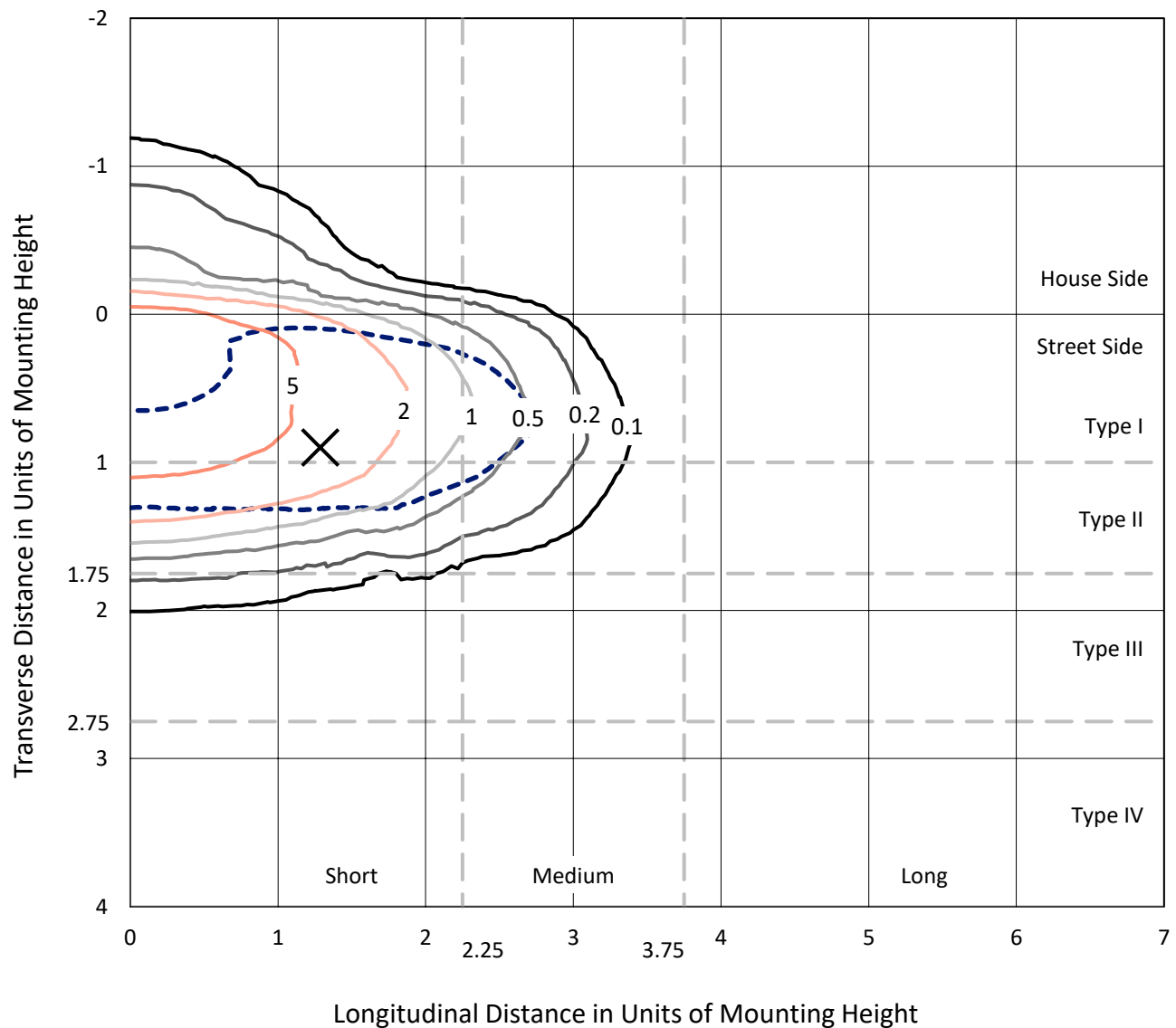


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Iso-Footcandle Lines of Horizontal Illumination

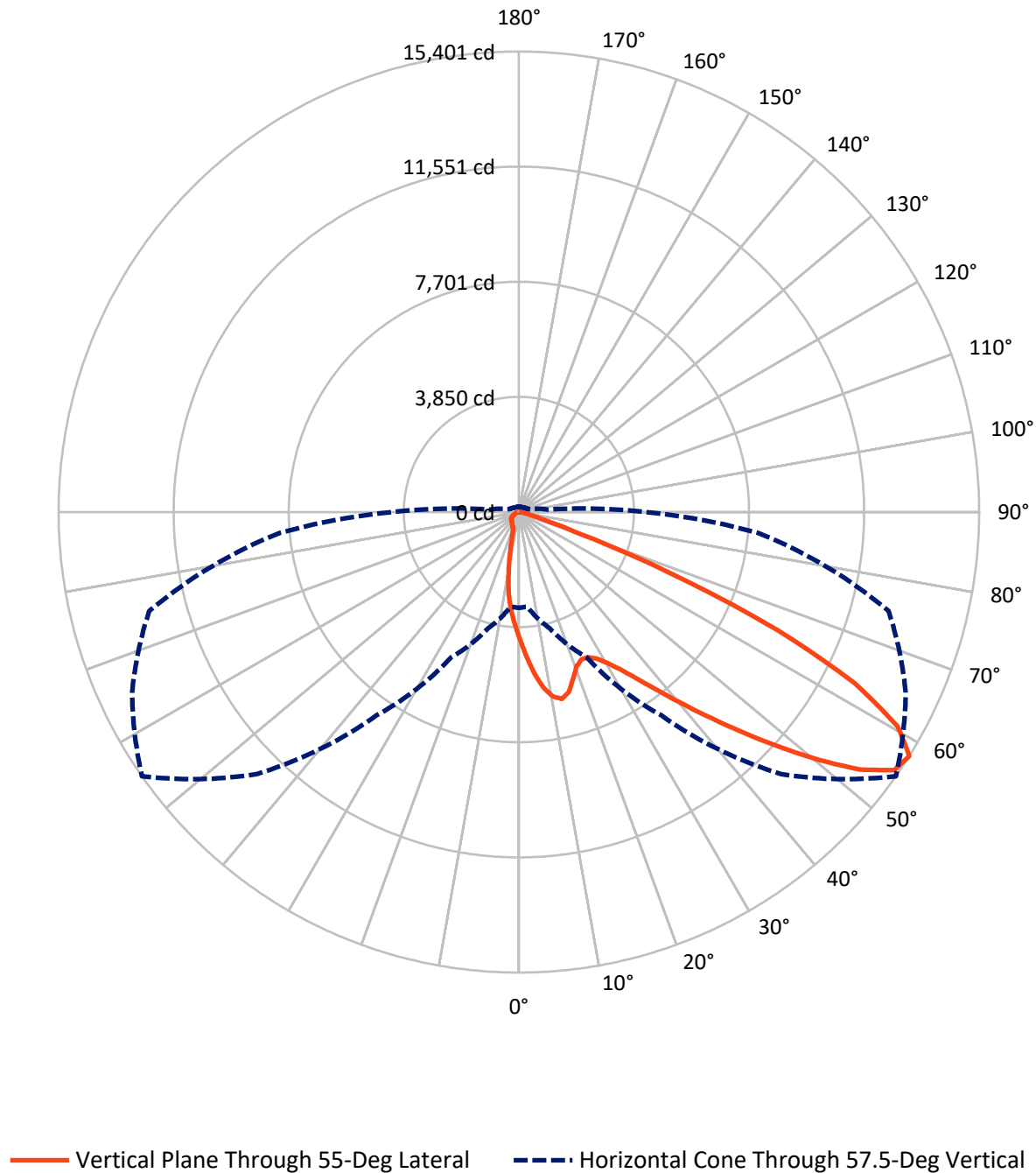
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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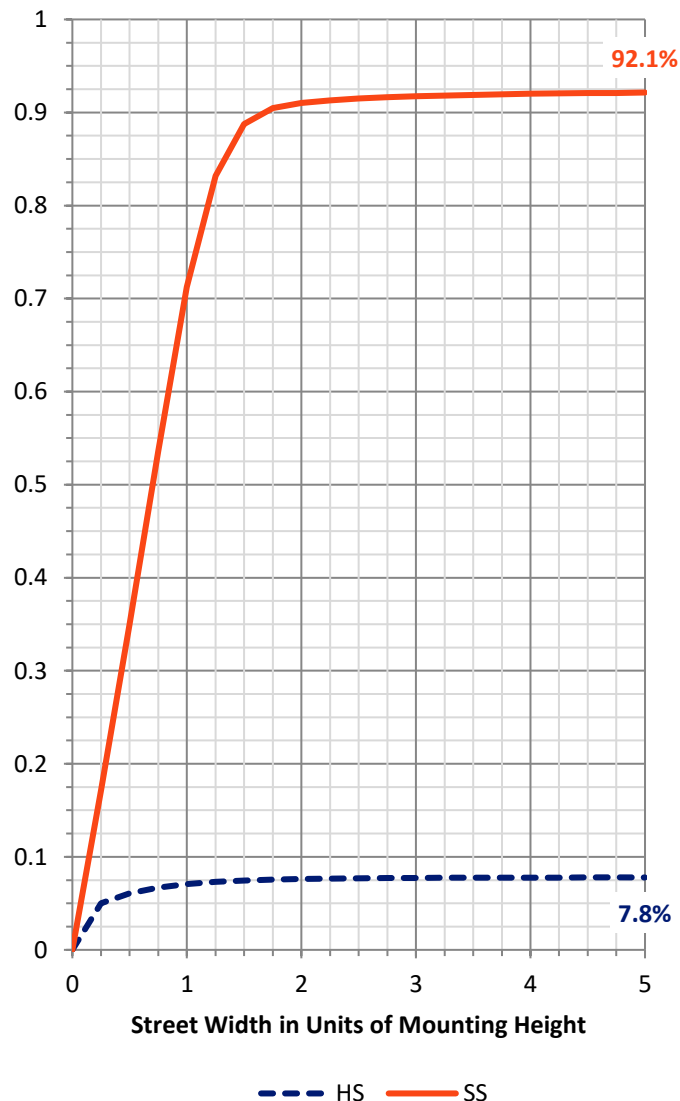
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1378.0	0.0	1378.0
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	16267.3	0.0	16267.3
	% Fixture	92.2	0.0	92.2
Total	Lumens	17645.4	0.0	17645.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	395.6	2.2
10°-20°	955.7	5.4
20°-30°	1529.0	8.7
30°-40°	2588.0	14.7
40°-50°	4248.9	24.1
50°-60°	4669.9	26.5
60°-70°	2678.6	15.2
70°-80°	547.3	3.1
80°-90°	32.3	0.2
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°	17645.4	100.0
0°-180°	17645.4	100.0

Coefficient of Utilization



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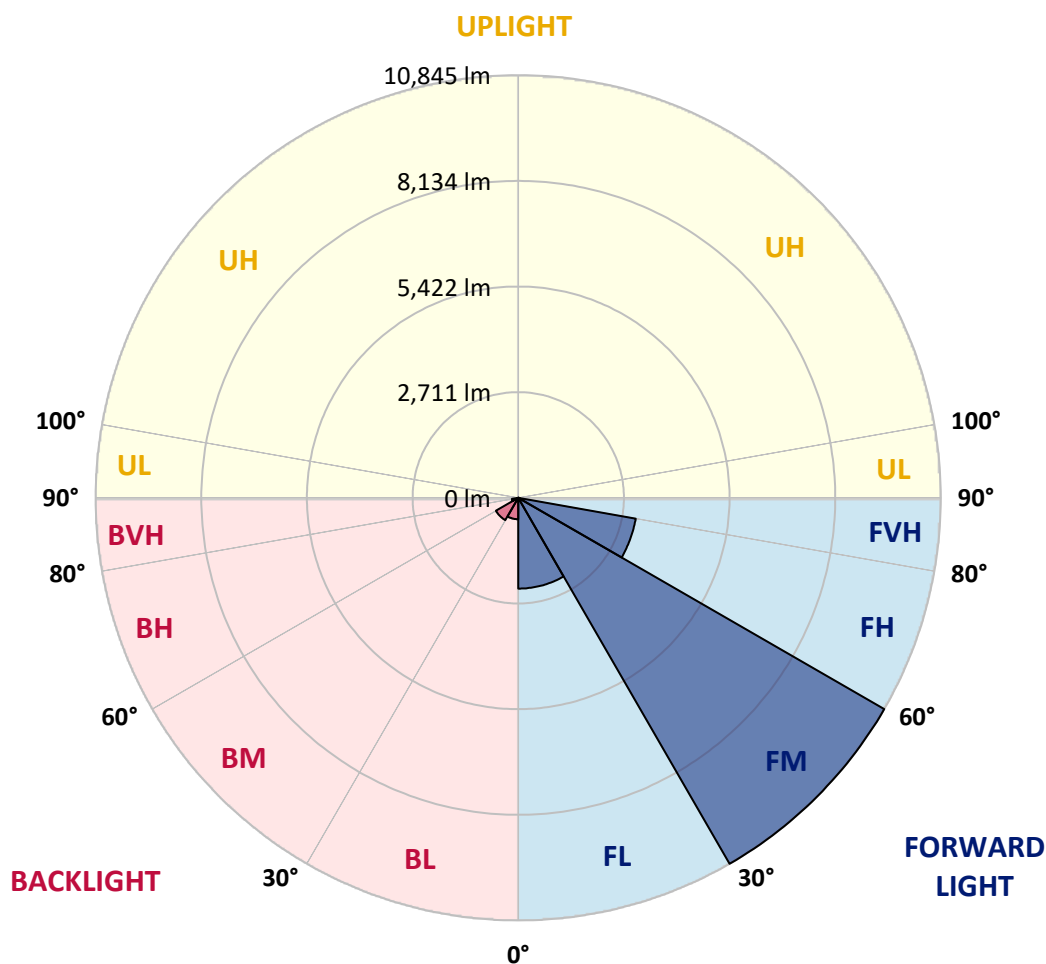
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2330.2	13.2			
FM	(30°-60°)	10845.0	61.5			
FH	(60°-80°)	3062.1	17.4			G2/5000
FVH	(80°-90°)	30.1	0.2			G1/100
BL	(0°-30°)	550.1	3.1	B2/1000		
BM	(30°-60°)	661.8	3.8	B1/1000		
BH	(60°-80°)	163.9	0.9	B1/500		G1/500
BVH	(80°-90°)	2.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4252.1	4252.1	4252.1	4252.1	4252.1	4252.1	4252.1	4252.1	4252.1	4252.1	4252.1
2.5°	5276.0	5209.6	5199.8	5186.7	5060.5	4965.8	4828.8	4678.6	4510.0	4338.1	4261.8
5°	6095.3	6043.0	6033.3	5972.3	5828.7	5667.6	5423.9	5116.0	4801.6	4431.6	4272.8
7.5°	6254.1	6244.3	6288.9	6286.7	6267.2	6139.9	5934.2	5567.6	5095.4	4547.0	4301.1
10°	5545.8	5570.8	5703.5	5820.0	6134.4	6317.2	6272.6	5970.1	5397.9	4678.6	4332.6
12.5°	4900.6	4871.2	4965.8	5097.5	5463.1	6007.1	6413.0	6306.3	5743.8	4827.6	4379.4
15°	4495.9	4483.9	4537.2	4598.2	4876.6	5425.0	6249.7	6579.5	6076.7	5003.9	4450.1
17.5°	4366.3	4356.6	4372.9	4388.1	4568.7	4993.1	5861.4	6747.0	6395.6	5205.3	4528.4
20°	4471.9	4458.9	4456.7	4444.7	4519.7	4809.2	5509.9	6759.0	6681.7	5388.0	4595.9
22.5°	4779.8	4764.6	4711.2	4663.3	4669.9	4834.2	5353.2	6639.2	6897.1	5558.9	4638.3
25°	5338.0	5313.0	5202.0	5041.0	4938.7	5008.3	5377.2	6481.5	7102.8	5692.6	4617.7
27.5°	6036.5	6003.8	5861.4	5621.9	5388.0	5303.1	5550.2	6372.7	7273.6	5794.9	4573.0
30°	6720.9	6678.5	6538.1	6352.0	6010.4	5742.8	5862.4	6420.6	7477.1	5901.5	4514.3
32.5°	7459.6	7419.5	7233.3	7002.7	6719.8	6359.6	6290.0	6654.5	7726.2	6050.7	4473.0
35°	8394.3	8331.2	8066.9	7752.4	7452.1	7087.6	6868.8	7058.2	8058.1	6278.0	4495.9
37.5°	9458.4	9373.5	9088.5	8654.4	8262.6	7854.7	7573.9	7613.1	8544.5	6582.8	4566.6
40°	10461.6	10384.4	10121.1	9712.0	9220.2	8725.1	8425.9	8338.8	9215.8	6953.7	4690.6
42.5°	11063.3	10993.6	10882.6	10709.7	10295.1	9790.3	9412.7	9224.5	10010.0	7397.6	4841.8
45°	11097.1	11036.1	11185.1	11386.4	11304.8	10968.6	10508.4	10163.5	10807.6	7814.4	4998.5
47.5°	10557.4	10516.0	10968.6	11671.5	12021.9	12163.3	11739.0	11024.1	11465.9	8113.6	5062.7
50°	9086.3	9071.0	10002.5	11292.8	12295.0	13210.0	13037.0	11824.9	11976.2	8268.1	5001.8
52.5°	7878.6	7823.1	8366.0	10080.8	11897.8	13760.5	14305.7	12610.5	12333.0	8297.5	4859.2
55°	5975.5	5926.7	6607.8	8052.7	10617.2	13564.7	15233.8	13421.1	12588.7	8222.3	4603.6
57.5°	3205.4	3174.9	4035.5	5359.7	8299.6	12389.6	15401.3	14278.5	12804.2	8023.3	4245.5
60°	1248.0	1242.5	1564.7	2600.4	5044.2	10079.7	14555.9	14793.1	12939.1	7778.5	3946.4
62.5°	755.1	771.4	823.7	1167.5	2228.4	6261.7	12607.2	14207.7	13029.4	7554.4	3699.3
65°	624.5	625.7	632.1	801.9	1067.3	2620.0	9491.1	12282.0	12806.3	7155.0	3349.0
67.5°	535.4	545.1	570.1	636.5	753.0	1149.0	5464.2	9513.9	11449.6	6225.8	2802.9
70°	422.2	435.2	466.8	523.4	581.0	719.2	2019.5	6330.3	8746.8	4692.8	2119.5
72.5°	355.8	354.8	371.0	425.5	461.4	505.9	776.8	3547.0	5083.4	2240.3	1048.9
75°	275.3	286.2	306.8	355.8	377.5	366.6	421.1	1295.9	1821.4	679.0	356.9
77.5°	215.5	224.2	242.6	290.5	312.3	260.0	242.6	463.5	585.4	243.7	161.0
80°	96.9	104.4	165.3	214.3	254.6	179.5	131.6	237.2	260.0	111.0	81.6
82.5°	17.4	29.4	96.9	113.2	130.6	116.4	68.6	123.0	127.3	44.6	28.3
85°	1.1	2.2	33.7	41.3	52.3	38.1	20.7	49.0	42.4	15.3	10.9
87.5°	0.0	0.0	0.0	1.1	1.1	5.4	6.6	8.7	6.6	5.4	4.3
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4252.1	4252.1	4252.1	4252.1	4252.1	4252.1	4252.1	4252.1	4252.1	4252.1
2.5°	4183.5	4029.1	3878.9	3755.9	3684.2	3562.3	3481.7	3468.7	3435.0	3464.4
5°	4103.1	3826.6	3547.0	3296.8	3091.2	2825.6	2627.7	2543.8	2471.0	2496.0
7.5°	4064.9	3628.6	3193.4	2765.9	2326.2	1901.9	1586.4	1454.7	1354.6	1368.8
10°	4013.8	3423.0	2740.7	2087.9	1499.4	1080.5	862.8	782.3	737.7	738.8
12.5°	3974.6	3177.1	2215.2	1415.5	912.9	689.8	622.4	602.8	589.7	590.8
15°	3955.1	2887.7	1696.3	943.3	652.8	584.2	568.0	559.2	550.5	549.5
17.5°	3922.5	2565.6	1241.5	688.7	571.2	547.2	533.1	523.4	512.5	510.2
20°	3873.5	2200.1	907.4	582.1	535.4	516.8	497.2	484.2	471.1	468.9
22.5°	3783.2	1813.7	697.4	538.5	509.2	488.5	464.6	449.4	436.3	434.1
25°	3615.6	1451.5	587.5	511.4	486.4	461.4	435.2	414.5	402.6	400.4
27.5°	3403.4	1140.3	533.1	486.4	456.9	434.1	404.8	385.2	374.3	372.1
30°	3153.2	878.0	501.6	458.1	422.2	402.6	376.5	360.2	353.6	353.6
32.5°	2883.3	701.8	488.5	429.8	391.7	369.9	349.2	342.8	340.6	339.5
35°	2629.8	609.3	482.1	406.9	364.5	343.8	335.1	336.2	340.6	340.6
37.5°	2404.5	579.9	478.8	390.6	340.6	322.1	327.5	337.3	332.9	332.9
40°	2201.1	583.2	476.5	378.6	320.9	310.1	320.9	313.3	302.5	301.3
42.5°	2045.5	610.4	472.2	368.9	309.0	301.3	297.0	285.1	284.0	286.2
45°	1932.3	634.4	471.1	364.5	295.9	281.8	276.3	264.3	286.2	291.6
47.5°	1798.6	634.4	471.1	349.2	274.2	268.8	260.0	247.0	268.8	274.2
50°	1625.5	594.1	452.6	331.9	256.8	253.5	238.3	221.9	217.6	220.9
52.5°	1406.8	521.2	405.8	307.9	239.3	232.9	214.3	202.3	199.2	199.2
55°	1157.6	436.3	342.8	273.1	220.9	208.9	195.9	190.4	187.2	185.0
57.5°	941.2	357.9	275.3	242.6	203.5	188.2	183.9	177.3	171.9	168.6
60°	772.5	281.8	227.4	215.5	186.0	171.9	170.9	162.2	148.0	145.8
62.5°	596.2	206.7	191.5	187.2	168.6	156.7	154.5	137.1	115.3	111.0
65°	421.1	161.0	154.5	164.3	150.2	139.3	133.9	107.7	84.9	81.6
67.5°	295.9	134.9	121.9	143.6	130.6	116.4	113.2	91.4	70.7	68.6
70°	211.0	109.9	100.1	123.0	104.4	102.3	95.7	76.2	57.7	55.5
72.5°	149.0	83.7	77.3	106.6	71.9	88.1	78.3	58.7	43.6	41.3
75°	109.9	59.9	54.4	62.0	52.3	66.4	55.5	39.2	27.2	26.1
77.5°	80.6	38.1	32.6	30.4	30.4	41.3	30.4	16.3	12.0	10.9
80°	56.6	17.4	15.3	13.0	12.0	9.8	4.3	2.2	1.1	1.1
82.5°	33.7	7.6	7.6	5.4	3.3	0.0	0.0	0.0	0.0	0.0
85°	7.6	3.3	3.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)