

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: P964584

Luminaire Tested: **NAV-SB3C-740-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964584
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-740-U-AFL-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 4000K, 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: 20775.7 lumens
Efficiency: N/A
Efficacy: 139.3 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



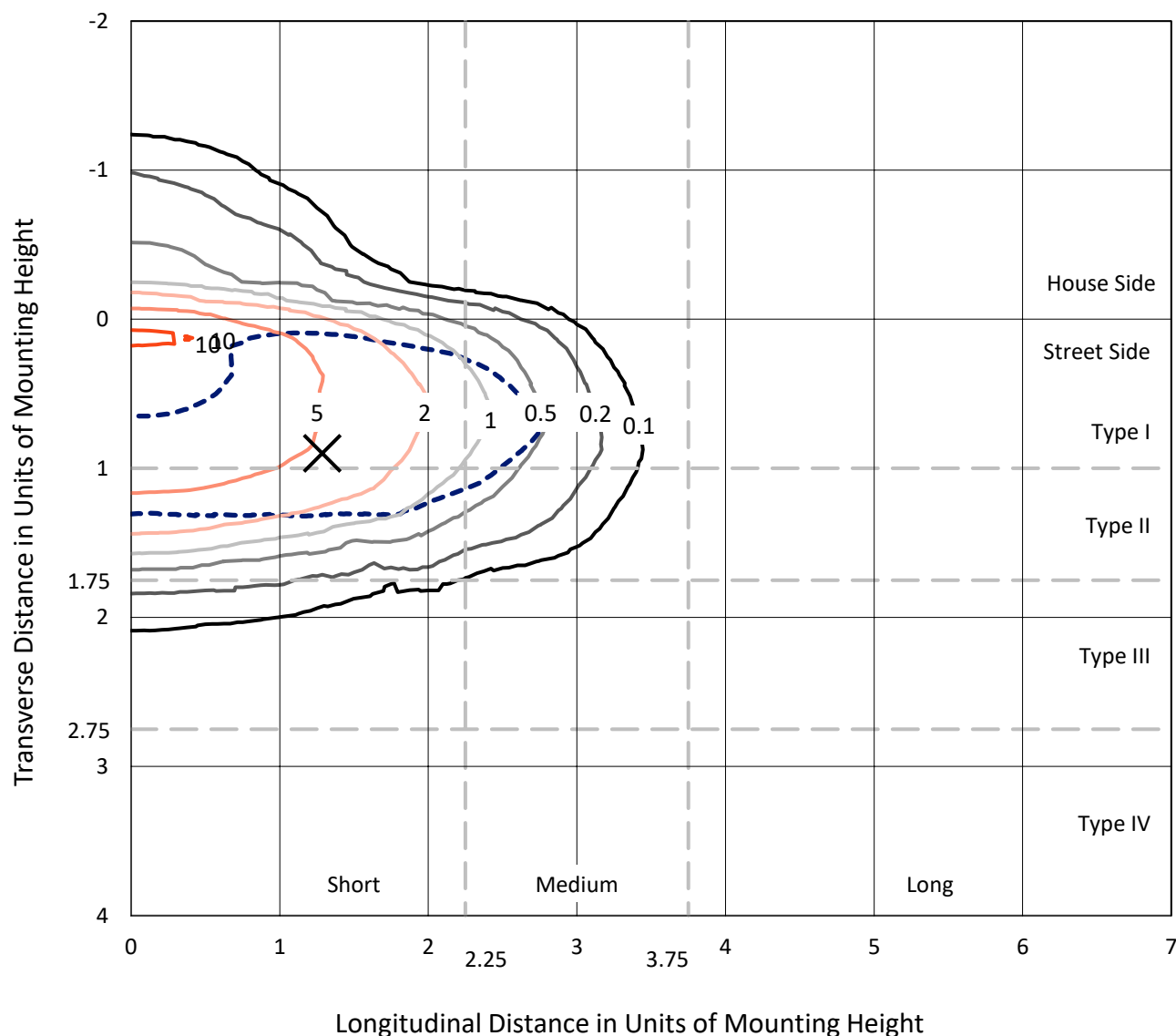
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



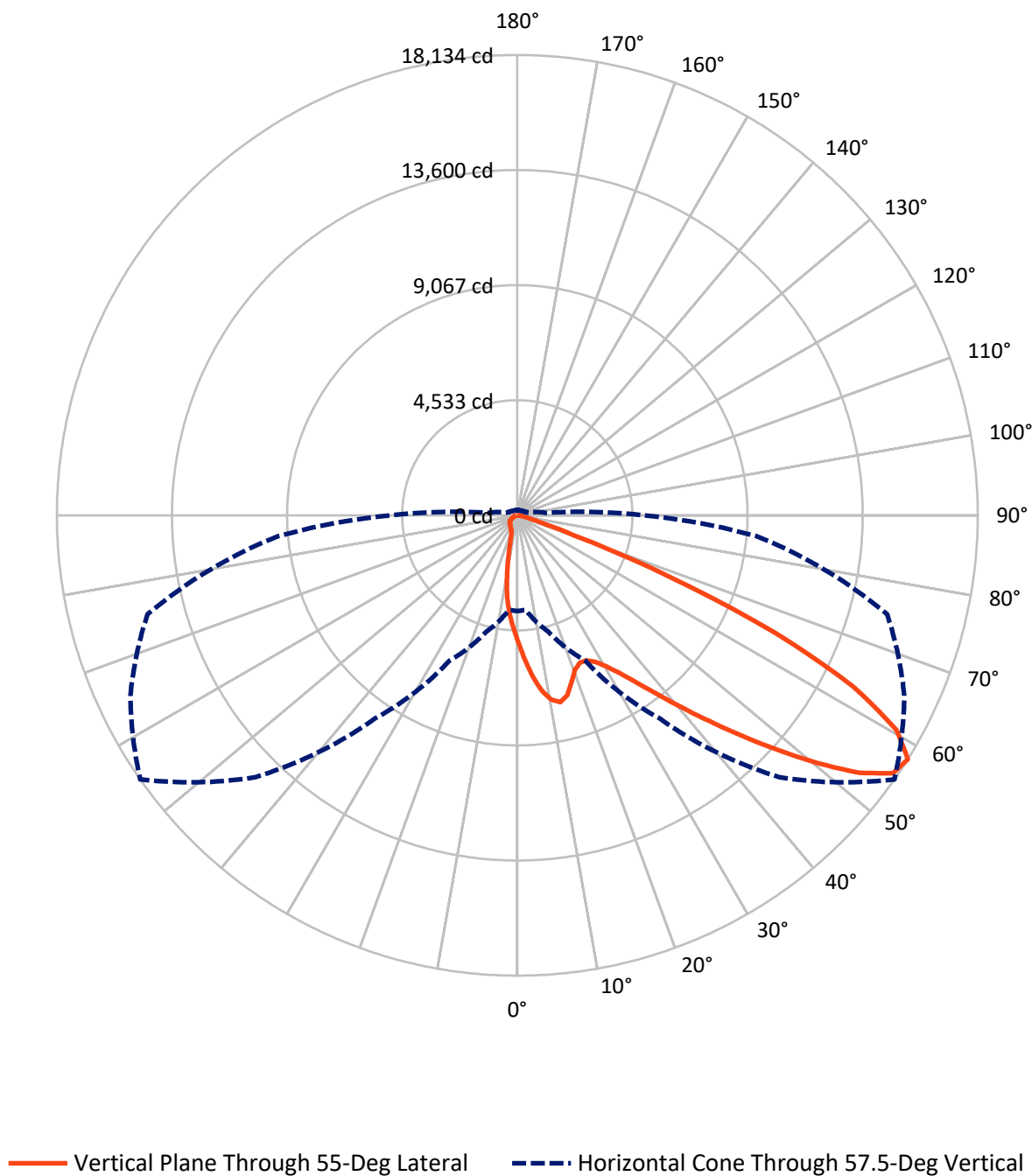
Based on 25 foot mounting height. Maximum calculated value = 11.5 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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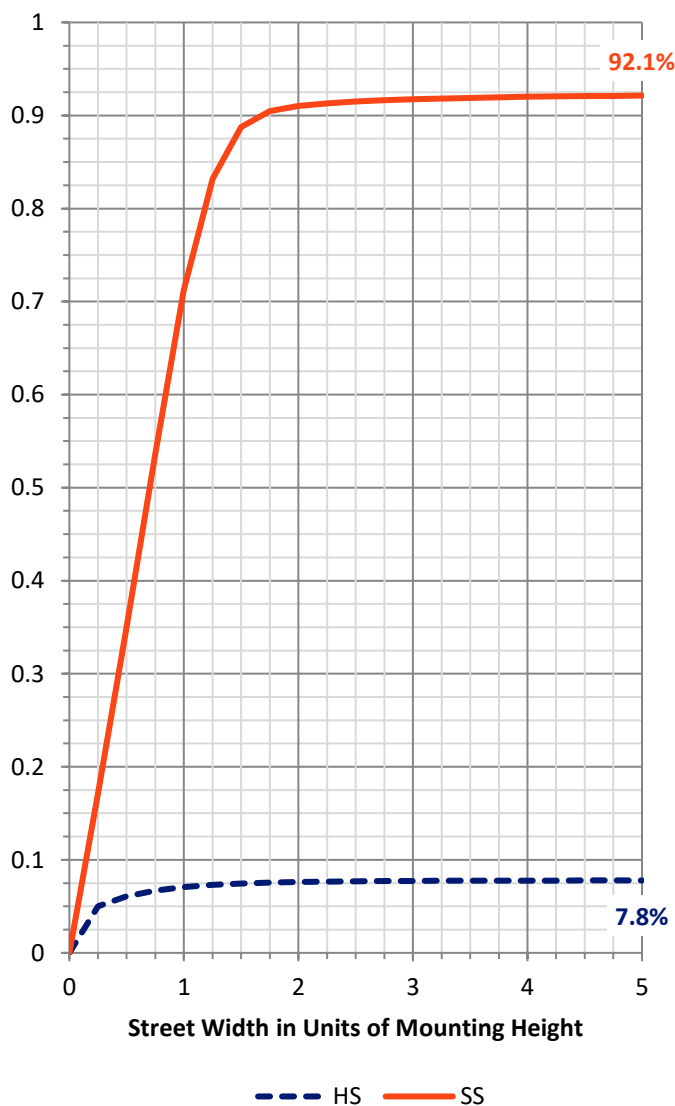
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1622.5	0.0	1622.5
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	19153.2	0.0	19153.2
	% Fixture	92.2	0.0	92.2
Total	Lumens	20775.7	0.0	20775.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	465.8	2.2
10°-20°	1125.2	5.4
20°-30°	1800.3	8.7
30°-40°	3047.1	14.7
40°-50°	5002.7	24.1
50°-60°	5498.3	26.5
60°-70°	3153.8	15.2
70°-80°	644.4	3.1
80°-90°	38.0	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°	20775.7	100.0
0°-180°	20775.7	100.0

Coefficient of Utilization



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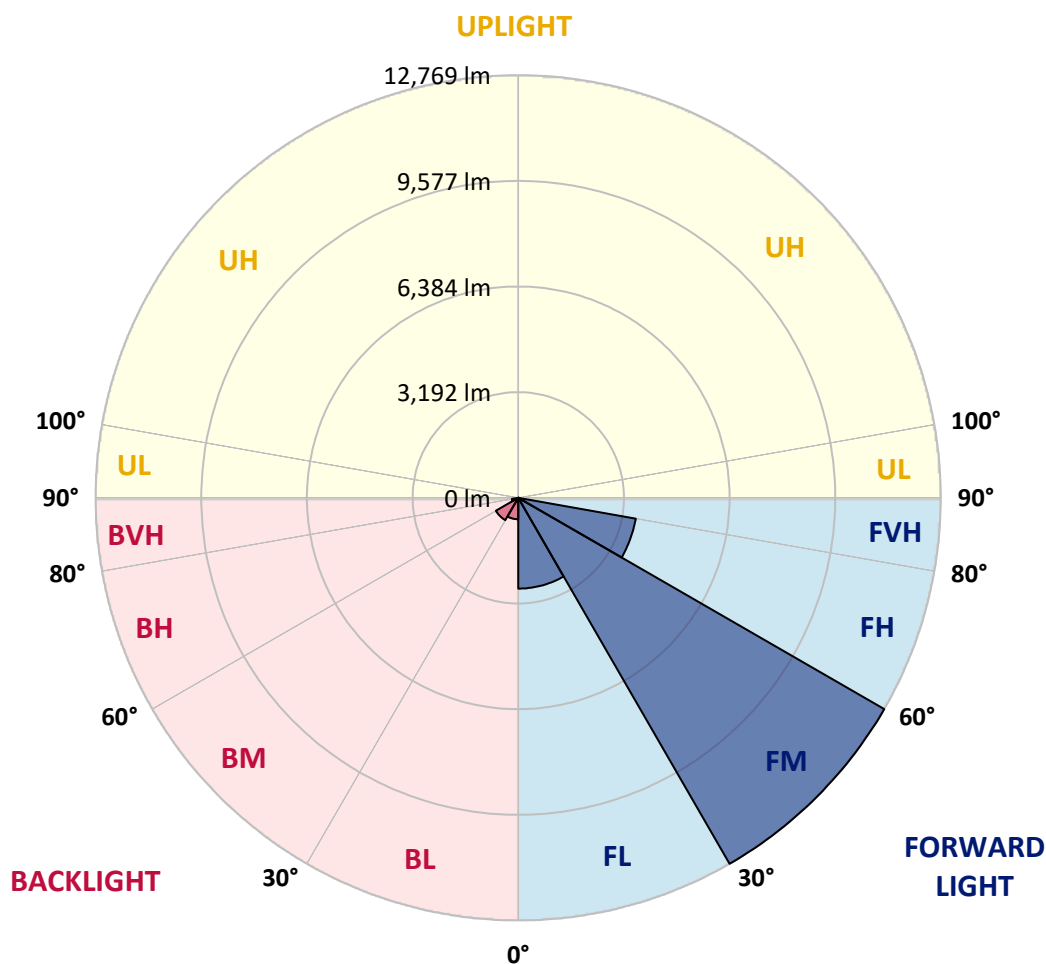
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2743.6	13.2			
FM	(30°-60°)	12768.9	61.5			
FH	(60°-80°)	3605.3	17.4			G2/5000
FVH	(80°-90°)	35.4	0.2			G1/100
BL	(0°-30°)	647.7	3.1	B2/1000		
BM	(30°-60°)	779.2	3.8	B1/1000		
BH	(60°-80°)	193.0	0.9	B1/500		G1/500
BVH	(80°-90°)	2.6	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°	5006.4	5006.4	5006.4	5006.4	5006.4	5006.4	5006.4	5006.4	5006.4	5006.4	5006.4
2.5°	6211.9	6133.8	6122.2	6106.8	5958.3	5846.8	5685.4	5508.7	5310.0	5107.7	5018.0
5°	7176.5	7115.0	7103.6	7031.8	6862.7	6673.2	6386.2	6023.6	5653.4	5217.9	5030.8
7.5°	7363.6	7352.1	7404.6	7402.0	7379.0	7229.1	6987.0	6555.3	5999.2	5353.6	5064.1
10°	6529.7	6559.1	6715.4	6852.4	7222.7	7437.9	7385.4	7029.2	6355.4	5508.7	5101.2
12.5°	5769.9	5735.4	5846.8	6001.8	6432.3	7072.8	7550.7	7425.1	6762.7	5684.1	5156.4
15°	5293.4	5279.3	5342.1	5413.8	5741.7	6387.4	7358.5	7746.6	7154.8	5891.7	5239.6
17.5°	5141.0	5129.4	5148.7	5166.6	5379.2	5878.9	6901.1	7944.0	7530.2	6128.7	5331.8
20°	5265.2	5249.8	5247.3	5233.1	5321.6	5662.3	6487.3	7958.0	7867.1	6343.9	5411.3
22.5°	5627.8	5609.8	5547.1	5490.7	5498.4	5691.8	6302.9	7817.2	8120.8	6545.0	5461.2
25°	6285.0	6255.5	6124.8	5935.3	5814.8	5896.8	6331.1	7631.3	8362.9	6702.6	5436.9
27.5°	7107.4	7069.0	6901.1	6619.3	6343.9	6244.0	6534.8	7503.2	8564.0	6823.0	5384.3
30°	7913.2	7863.2	7698.0	7478.9	7076.7	6761.5	6902.5	7559.6	8803.5	6948.6	5315.1
32.5°	8783.0	8735.7	8516.6	8245.0	7911.9	7487.8	7405.9	7835.1	9096.9	7124.1	5266.4
35°	9883.5	9809.1	9497.9	9127.6	8774.1	8344.9	8087.5	8310.3	9487.6	7391.8	5293.4
37.5°	11136.4	11036.5	10700.8	10189.6	9728.5	9248.1	8917.6	8963.6	10060.3	7750.5	5376.6
40°	12317.5	12226.6	11916.5	11434.9	10855.8	10273.0	9920.7	9818.2	10850.6	8187.4	5522.7
42.5°	13026.0	12944.0	12813.3	12609.7	12121.5	11527.2	11082.6	10860.9	11785.9	8710.0	5700.7
45°	13065.7	12993.9	13169.4	13406.5	13310.3	12914.5	12372.6	11966.5	12724.9	9200.7	5885.2
47.5°	12430.3	12381.6	12914.5	13742.1	14154.6	14321.1	13821.5	12979.9	13500.0	9553.0	5960.9
50°	10698.2	10680.3	11776.9	13296.3	14476.2	15553.6	15349.8	13922.7	14100.8	9734.8	5889.1
52.5°	9276.2	9211.0	9850.1	11869.2	14008.6	16201.8	16843.5	14847.6	14521.0	9769.5	5721.2
55°	7035.7	6978.0	7780.0	9481.2	12500.7	15971.1	17936.3	15802.0	14822.0	9681.1	5420.2
57.5°	3774.0	3738.2	4751.5	6310.6	9772.0	14587.6	18133.6	16811.5	15075.7	9446.6	4998.7
60°	1469.4	1463.0	1842.2	3061.8	5939.1	11867.9	17138.2	17417.5	15234.6	9158.4	4646.4
62.5°	889.1	908.3	969.8	1374.6	2623.6	7372.6	14843.8	16728.3	15340.9	8894.5	4355.6
65°	735.3	736.7	744.4	944.1	1256.8	3084.8	11174.9	14460.8	15078.3	8424.4	3943.2
67.5°	630.3	641.9	671.3	749.4	886.5	1352.8	6433.5	11201.7	13480.7	7330.3	3300.1
70°	497.0	512.4	549.6	616.2	684.1	846.8	2377.7	7453.3	10298.6	5525.3	2495.6
72.5°	418.9	417.6	436.9	500.9	543.1	595.7	914.7	4176.3	5985.2	2637.7	1234.9
75°	324.1	336.9	361.3	418.9	444.5	431.7	495.8	1525.7	2144.5	799.4	420.1
77.5°	253.7	263.9	285.7	342.0	367.7	306.2	285.7	545.7	689.2	287.0	189.6
80°	114.0	123.0	194.7	252.4	299.8	211.4	155.0	279.3	306.2	130.7	96.0
82.5°	20.5	34.5	114.0	133.2	153.8	137.0	80.7	144.7	149.9	52.5	33.3
85°	1.2	2.6	39.7	48.7	61.5	44.8	24.3	57.6	49.9	17.9	12.8
87.5°	0.0	0.0	0.0	1.2	1.2	6.4	7.7	10.2	7.7	6.4	5.1
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°	5006.4	5006.4	5006.4	5006.4	5006.4	5006.4	5006.4	5006.4	5006.4	5006.4
2.5°	4925.7	4743.8	4567.0	4422.3	4337.7	4194.2	4099.5	4084.1	4044.3	4079.0
5°	4830.9	4505.5	4176.3	3881.7	3639.6	3326.9	3093.8	2995.2	2909.4	2938.8
7.5°	4786.1	4272.4	3759.9	3256.5	2738.9	2239.3	1867.8	1712.8	1594.9	1611.6
10°	4725.9	4030.3	3227.0	2458.4	1765.4	1272.1	1015.9	921.1	868.6	869.8
12.5°	4679.7	3740.7	2608.3	1666.6	1074.8	812.2	732.8	709.7	694.3	695.7
15°	4656.7	3399.9	1997.2	1110.7	768.6	688.0	668.7	658.5	648.2	647.0
17.5°	4618.2	3020.8	1461.8	810.9	672.6	644.4	627.7	616.2	603.4	600.9
20°	4560.6	2590.4	1068.5	685.4	630.3	608.5	585.5	570.1	554.7	552.2
22.5°	4454.3	2135.6	821.1	634.2	599.5	575.2	547.0	529.1	513.7	511.2
25°	4257.0	1709.0	691.8	602.1	572.7	543.1	512.4	488.1	474.0	471.4
27.5°	4007.2	1342.5	627.7	572.7	538.0	511.2	476.5	453.5	440.6	438.1
30°	3712.6	1033.8	590.6	539.4	497.0	474.0	443.2	424.0	416.4	416.4
32.5°	3394.8	826.3	575.2	506.0	461.1	435.5	411.2	403.5	401.0	399.6
35°	3096.3	717.4	567.5	479.1	429.2	404.8	394.5	395.9	401.0	401.0
37.5°	2831.2	682.9	563.6	459.9	401.0	379.1	385.6	397.1	392.0	392.0
40°	2591.6	686.6	561.1	445.8	377.9	365.1	377.9	369.0	356.2	354.9
42.5°	2408.4	718.7	556.0	434.3	363.9	354.9	349.7	335.7	334.4	336.9
45°	2275.2	746.8	554.7	429.2	348.5	331.8	325.4	311.3	336.9	343.4
47.5°	2117.6	746.8	554.7	411.2	322.9	316.4	306.2	290.8	316.4	322.9
50°	1913.9	699.5	532.9	390.7	302.4	298.5	280.5	261.4	256.2	260.0
52.5°	1656.4	613.7	477.9	362.5	281.9	274.2	252.4	238.3	234.4	234.4
55°	1363.0	513.7	403.5	321.5	260.0	246.0	230.6	224.2	220.4	217.8
57.5°	1108.1	421.5	324.1	285.7	239.5	221.6	216.5	208.8	202.4	198.5
60°	909.6	331.8	267.7	253.7	219.0	202.4	201.1	190.9	174.2	171.7
62.5°	702.0	243.4	225.5	220.4	198.5	184.5	181.9	161.4	135.8	130.7
65°	495.8	189.6	181.9	193.4	176.8	164.0	157.5	126.8	99.9	96.0
67.5°	348.5	158.9	143.5	169.1	153.8	137.0	133.2	107.6	83.2	80.7
70°	248.6	129.4	117.9	144.7	123.0	120.4	112.7	89.7	67.9	65.3
72.5°	175.5	98.6	90.9	125.6	84.6	103.7	92.2	69.2	51.2	48.7
75°	129.4	70.4	64.1	73.0	61.5	78.1	65.3	46.1	32.0	30.7
77.5°	94.8	44.8	38.4	35.9	35.9	48.7	35.9	19.2	14.0	12.8
80°	66.6	20.5	17.9	15.4	14.0	11.5	5.1	2.6	1.2	1.2
82.5°	39.7	8.9	8.9	6.4	3.8	0.0	0.0	0.0	0.0	0.0
85°	8.9	3.8	3.8	1.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.2	1.2	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)