

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: P970024

Luminaire Tested: **NAV-SB6A-835-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970024
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6A-835-U-T2R-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21896.1 lumens
Efficiency: N/A
Efficacy: 128.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

Input Watts (W): 170.9
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

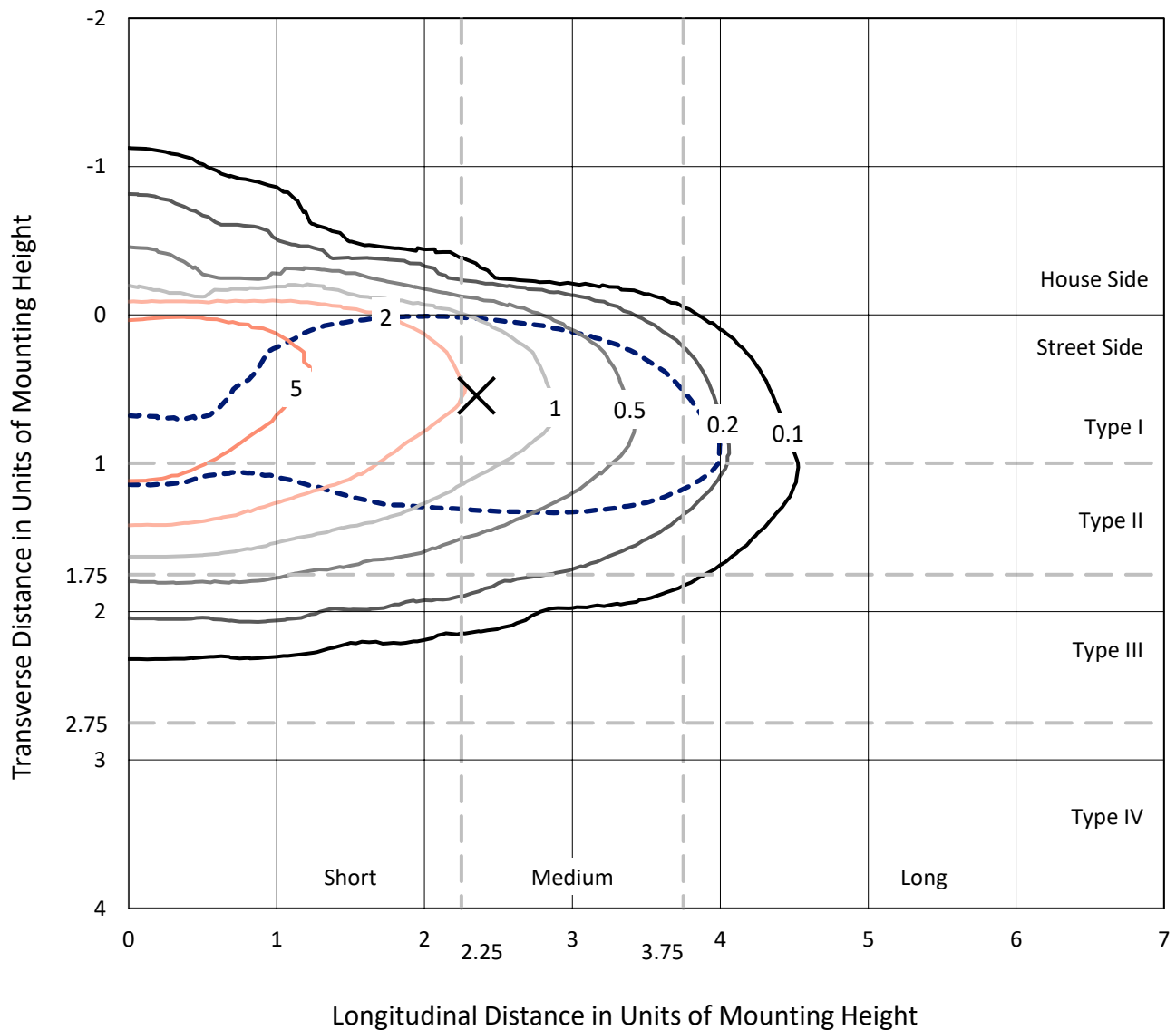


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Iso-Footcandle Lines of Horizontal Illumination

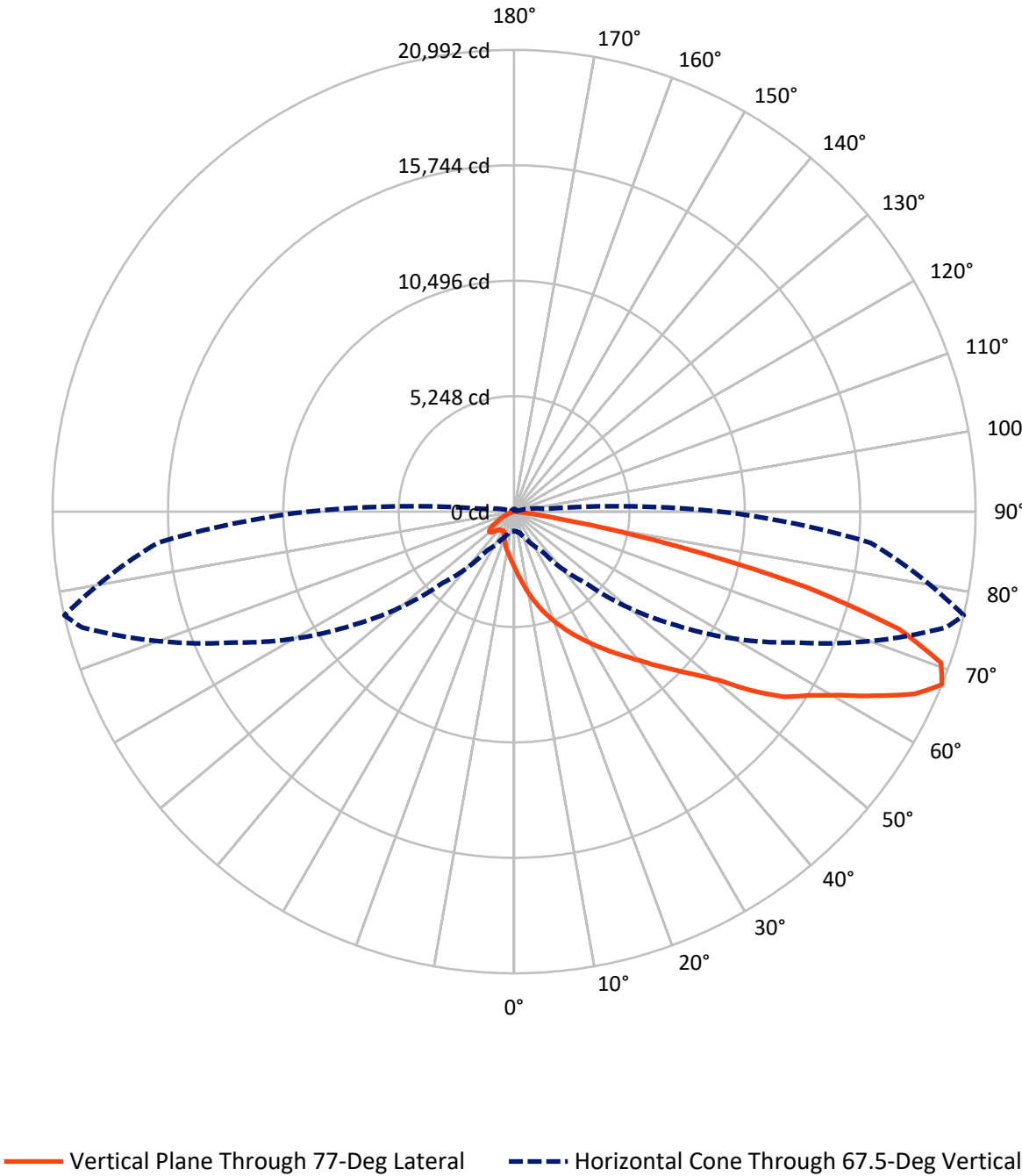
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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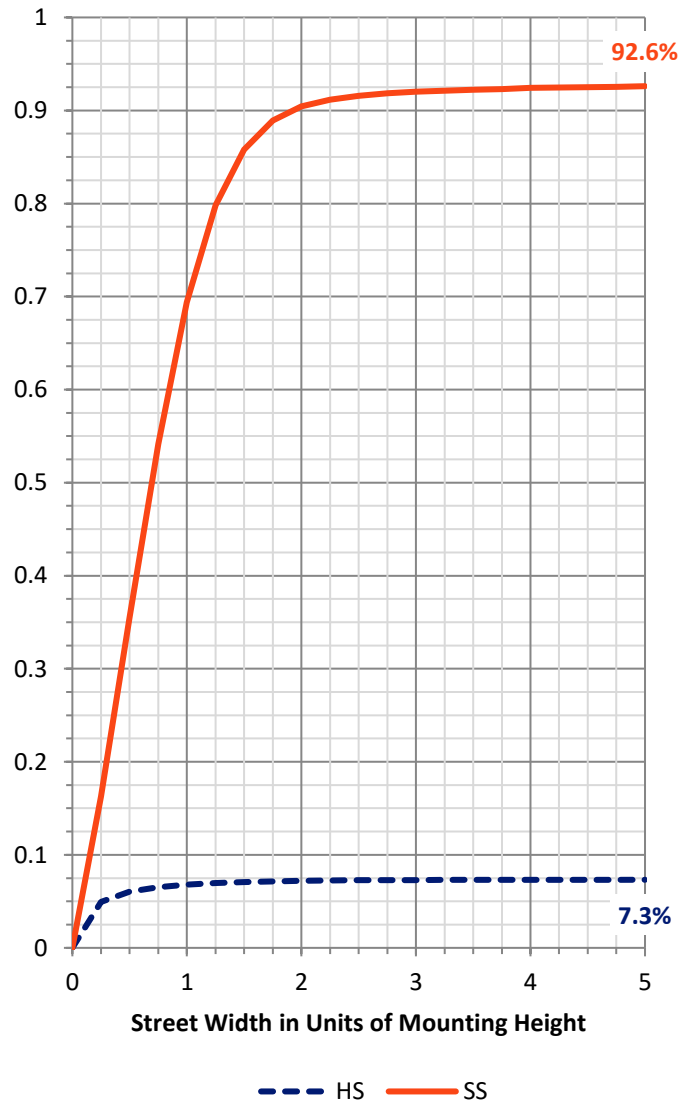
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1610.9	0.0	1610.9
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	20285.2	0.0	20285.2
	% Fixture	92.6	0.0	92.6
Total	Lumens	21896.1	0.0	21896.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	257.7	1.2
10°-20°	902.5	4.1
20°-30°	1741.5	8.0
30°-40°	3023.4	13.8
40°-50°	4389.8	20.0
50°-60°	5041.1	23.0
60°-70°	4376.6	20.0
70°-80°	2061.4	9.4
80°-90°	102.0	0.5
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°	21896.1	100.0
0°-180°	21896.1	100.0

Coefficient of Utilization



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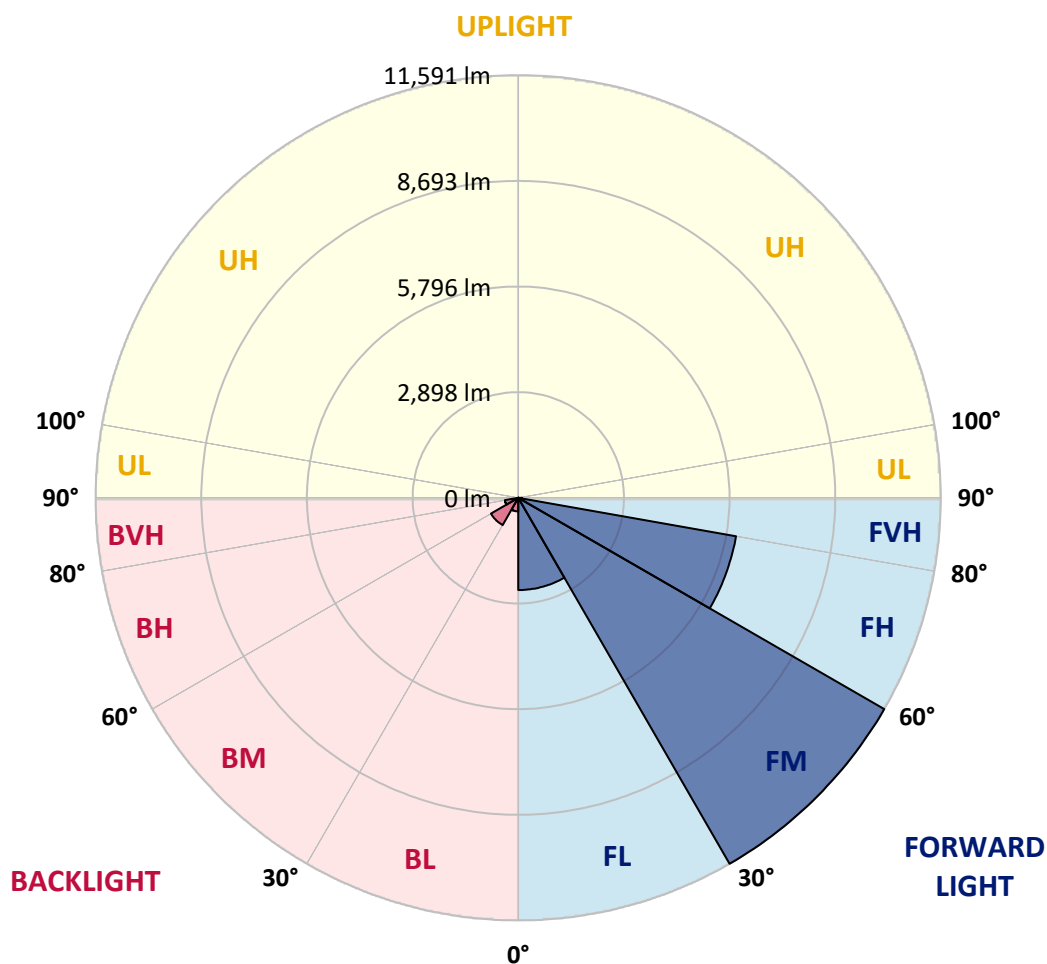
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2528.8	11.5			
FM	(30°-60°)	11591.2	52.9			
FH	(60°-80°)	6065.1	27.7			G3/7500
FVH	(80°-90°)	100.1	0.5			G2/225
BL	(0°-30°)	372.9	1.7	B1/500		
BM	(30°-60°)	863.1	3.9	B1/1000		
BH	(60°-80°)	372.9	1.7	B1/500		G1/500
BVH	(80°-90°)	1.9	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	2525.0	2525.0	2525.0	2525.0	2525.0	2525.0	2525.0	2525.0	2525.0	2525.0	2525.0
2.5°	3495.8	3517.5	3486.2	3426.4	3336.7	3278.2	3135.5	3000.8	2851.2	2803.7	2654.1
5°	4261.2	4280.3	4244.9	4179.6	4060.0	3945.8	3758.2	3476.7	3184.4	3090.6	2825.4
7.5°	4828.3	4839.1	4825.5	4765.7	4651.4	4522.3	4312.9	3979.8	3546.1	3442.8	3036.2
10°	5236.1	5271.5	5267.4	5244.3	5168.2	5063.5	4840.5	4461.1	3951.3	3818.0	3274.2
12.5°	5506.7	5546.2	5569.2	5620.9	5616.9	5550.3	5354.4	4953.3	4355.1	4198.7	3542.0
15°	5585.6	5627.8	5716.1	5835.7	5941.8	5975.9	5838.5	5436.0	4799.7	4599.8	3816.6
17.5°	5540.7	5606.0	5712.0	5901.0	6133.5	6287.1	6272.2	5902.4	5203.5	4975.0	4085.9
20°	5640.0	5702.5	5785.5	5944.6	6215.1	6493.9	6605.3	6348.3	5604.6	5365.4	4368.7
22.5°	6189.3	6178.4	6186.6	6212.4	6374.2	6650.2	6880.0	6753.5	6001.7	5756.9	4667.8
25°	7059.5	7010.6	6927.6	6787.6	6746.8	6880.0	7119.3	7112.5	6420.4	6158.0	4973.7
27.5°	8057.5	8049.3	7854.9	7517.7	7327.3	7275.7	7389.9	7462.0	6835.1	6555.1	5281.0
30°	9013.3	9035.1	8772.7	8397.4	8048.0	7845.4	7742.0	7793.7	7256.7	6983.3	5597.8
32.5°	9845.5	9868.6	9583.0	9143.9	8711.5	8466.8	8249.2	8121.4	7716.2	7418.4	5945.9
35°	10548.5	10571.5	10243.8	9758.5	9297.6	9075.9	8829.8	8480.3	8178.5	7901.1	6333.4
37.5°	11176.6	11169.8	10730.6	10241.2	9788.3	9613.0	9483.8	8922.2	8654.4	8386.6	6763.1
40°	11547.9	11576.3	11201.1	10661.3	10222.1	10094.3	10086.1	9470.2	9203.7	8944.0	7233.5
42.5°	11656.6	11706.9	11435.0	10991.7	10593.3	10454.6	10668.1	10063.0	9842.8	9589.9	7765.2
45°	11460.8	11509.7	11386.0	11078.7	10846.2	10756.5	11168.5	10677.6	10525.3	10275.1	8364.8
47.5°	10889.7	10950.9	10980.8	10915.5	10912.9	11003.9	11617.1	11324.8	11335.7	11080.0	9059.6
50°	9784.3	9887.7	10162.3	10393.4	10751.0	11199.8	12053.6	12026.4	12249.4	12029.1	9965.2
52.5°	7774.7	7921.5	8867.9	9500.1	10303.7	11163.1	12533.6	13152.3	13852.5	13530.2	11241.9
55°	6247.8	6247.8	7017.4	8200.3	9430.8	10921.0	12743.0	13883.7	14944.3	14868.1	12140.6
57.5°	5093.4	5154.5	5645.4	6691.0	8167.6	10344.5	12872.2	14343.3	15824.1	15768.3	13019.0
60°	3143.6	3275.5	4202.8	5234.8	6730.5	9318.0	12790.6	14808.4	16891.4	16936.3	14076.8
62.5°	1770.3	1819.3	2232.7	3766.4	5233.4	7937.8	12166.4	15068.0	18256.5	18446.8	15167.3
65°	1222.3	1246.8	1405.9	2344.1	3627.7	6319.8	10946.8	14906.3	19624.3	20009.1	16091.9
67.5°	887.9	900.2	999.4	1431.7	2152.4	4582.2	9035.1	14090.5	20349.0	20992.2	16268.6
70°	682.5	690.7	762.8	941.0	1271.3	2828.2	6561.8	12468.3	19824.2	20592.5	15363.1
72.5°	554.7	562.9	618.7	696.2	843.0	1672.4	3977.1	10125.6	17507.3	18336.7	13078.8
75°	467.7	478.6	528.9	579.2	660.8	1074.2	1865.5	7051.3	13165.8	13709.7	9094.9
77.5°	259.7	239.3	429.7	480.0	557.5	679.9	872.9	4149.7	7373.5	7524.5	4035.5
80°	161.8	167.3	341.3	386.1	428.3	342.7	399.7	1597.7	2556.2	2428.4	781.9
82.5°	9.5	21.7	262.4	278.7	293.7	146.9	150.9	542.5	615.9	565.6	138.7
85°	0.0	0.0	119.6	96.6	102.0	42.1	43.5	126.5	82.9	89.8	27.2
87.5°	0.0	0.0	0.0	2.8	0.0	4.1	8.2	10.9	4.1	5.4	9.5
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°	2525.0	2525.0	2525.0	2525.0	2525.0	2525.0	2525.0	2525.0	2525.0	2525.0	2525.0
2.5°	2558.9	2463.8	2270.7	2081.7	1928.0	1785.2	1683.3	1586.8	1537.8	1535.0	1532.4
5°	2636.4	2436.5	2050.4	1709.1	1434.5	1214.2	1071.4	969.4	917.8	900.2	897.4
7.5°	2745.2	2444.7	1857.3	1382.8	1059.2	870.2	788.6	755.9	745.1	732.9	730.1
10°	2882.5	2463.8	1684.7	1113.6	834.9	739.6	707.0	693.4	685.3	677.1	674.4
12.5°	3036.2	2481.4	1513.3	924.6	734.2	685.3	662.2	645.9	635.0	625.5	622.7
15°	3185.7	2492.3	1335.2	792.7	682.5	643.1	618.7	601.0	586.0	575.1	573.8
17.5°	3333.9	2507.3	1168.0	713.8	640.4	601.0	576.5	554.7	542.5	530.2	528.9
20°	3498.4	2504.6	1010.2	658.0	598.3	558.8	533.0	512.6	500.4	486.8	485.4
22.5°	3650.7	2491.0	871.6	610.5	554.7	516.7	488.1	467.7	455.5	444.6	443.2
25°	3826.1	2480.1	755.9	567.0	513.9	475.9	444.6	425.6	411.9	402.5	401.1
27.5°	3994.7	2463.8	671.7	527.6	474.6	437.8	408.0	386.1	373.9	367.2	367.2
30°	4160.7	2459.7	640.4	489.4	439.2	402.5	372.6	352.2	342.7	339.9	338.6
32.5°	4360.6	2470.6	654.1	475.9	406.5	369.8	341.3	326.4	316.8	316.8	316.8
35°	4574.0	2467.8	674.4	488.1	384.8	337.2	315.5	306.0	296.4	296.4	296.4
37.5°	4841.8	2471.9	690.7	508.5	376.6	310.0	297.8	285.6	280.1	280.1	280.1
40°	5241.5	2606.5	682.5	526.2	373.9	291.0	266.5	262.4	258.3	258.3	258.3
42.5°	5731.1	2898.8	693.4	527.6	372.6	277.4	244.8	252.9	243.3	242.0	240.7
45°	6266.7	3218.4	762.8	499.0	371.2	270.6	233.9	243.3	228.5	228.5	228.5
47.5°	6798.4	3535.2	833.5	458.2	367.2	269.3	224.4	218.9	214.8	216.2	216.2
50°	7531.3	3793.5	860.7	402.5	357.6	266.5	206.6	208.1	205.3	208.1	208.1
52.5°	8329.5	3848.0	828.1	339.9	330.4	258.3	194.4	199.9	198.5	201.2	201.2
55°	8827.1	3789.4	683.9	282.8	288.2	225.7	182.2	193.1	193.1	193.1	193.1
57.5°	9341.0	3540.7	485.4	229.8	239.3	184.9	171.3	186.2	184.9	183.6	183.6
60°	9710.8	3138.1	319.5	189.0	190.3	152.3	159.1	175.4	174.0	167.3	167.3
62.5°	9986.9	2693.5	205.3	160.4	145.4	137.4	145.4	159.1	153.6	138.7	136.0
65°	9955.6	2077.6	157.7	137.4	119.6	119.6	126.5	138.7	122.4	97.9	95.2
67.5°	9375.1	1405.9	130.5	115.6	100.7	99.2	104.7	115.6	104.7	82.9	80.3
70°	8337.6	919.1	104.7	89.8	80.3	73.4	84.3	99.2	88.4	66.6	63.9
72.5°	6767.2	560.2	78.8	65.3	58.4	47.6	66.6	81.6	70.7	49.0	46.2
75°	4378.2	285.6	54.4	42.1	31.3	28.6	49.0	61.2	49.0	29.9	25.8
77.5°	1675.2	119.6	29.9	19.1	16.3	13.6	27.2	36.7	20.4	6.8	5.4
80°	322.3	50.3	15.0	9.5	8.2	5.4	4.1	2.8	0.0	0.0	0.0
82.5°	55.8	16.3	5.4	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	19.1	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.8	0.0	0.0	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	0.0

(END OF REPORT)