

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: P970556

Luminaire Tested: **NAV-SB6B-835-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970556
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6B-835-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25461 lumens
Efficiency: N/A
Efficacy: 115.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 220.4
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

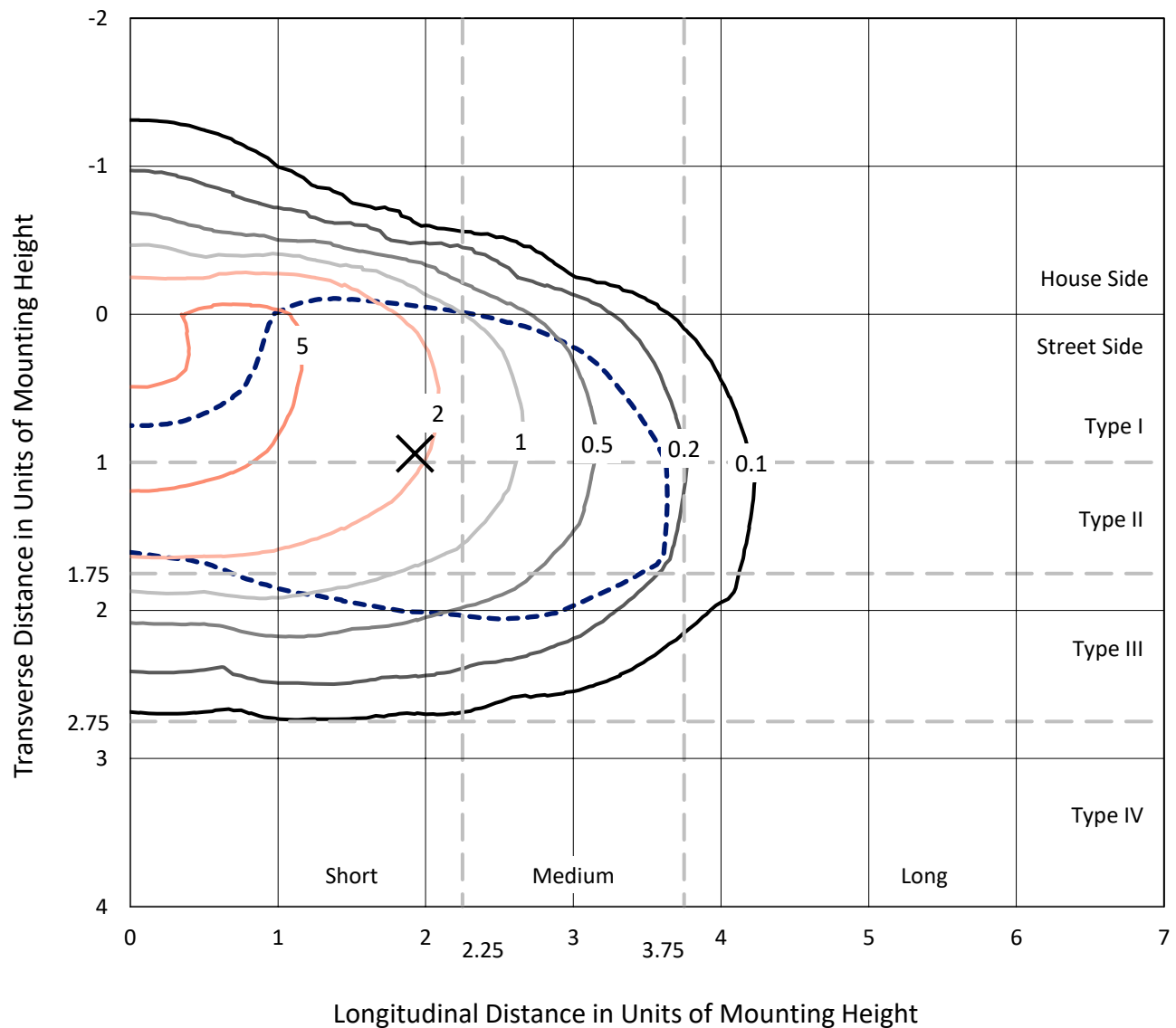


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Iso-Footcandle Lines of Horizontal Illumination

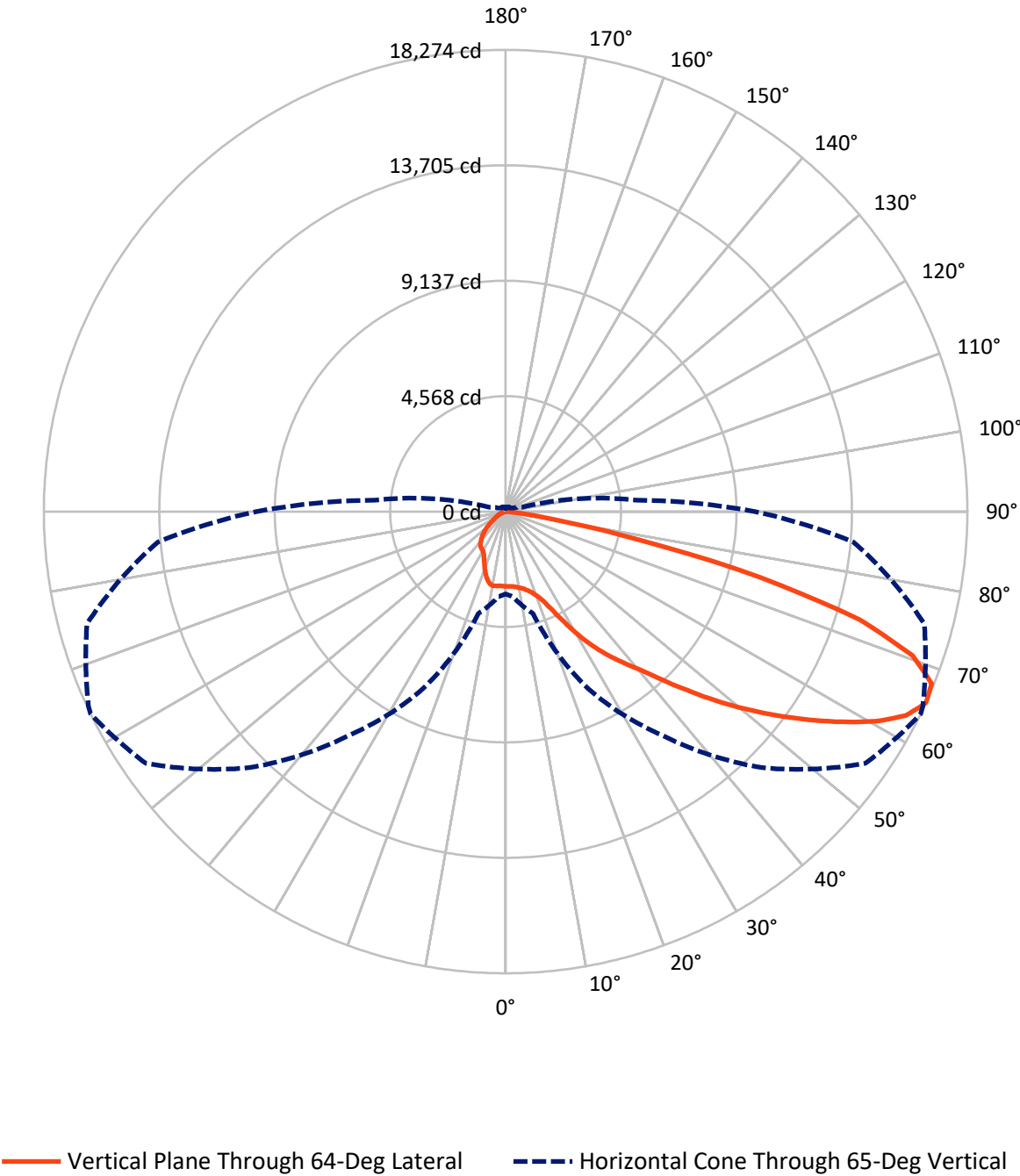
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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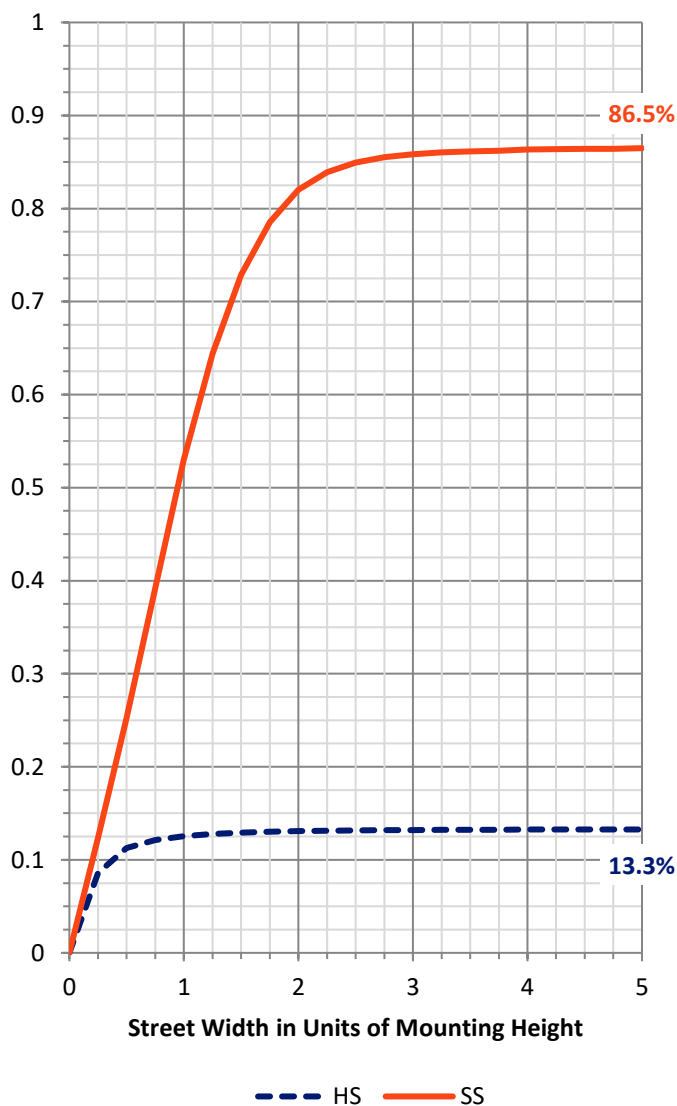
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3404.9	0.0	3404.9
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	22056.1	0.0	22056.1
	% Fixture	86.6	0.0	86.6
Total	Lumens	25461.0	0.0	25461.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	273.2	1.1
10°-20°	741.0	2.9
20°-30°	1404.2	5.5
30°-40°	2841.5	11.2
40°-50°	4840.5	19.0
50°-60°	6582.6	25.9
60°-70°	6181.4	24.3
70°-80°	2476.5	9.7
80°-90°	120.0	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°	25461.0	100.0
0°-180°	25461.0	100.0

Coefficient of Utilization



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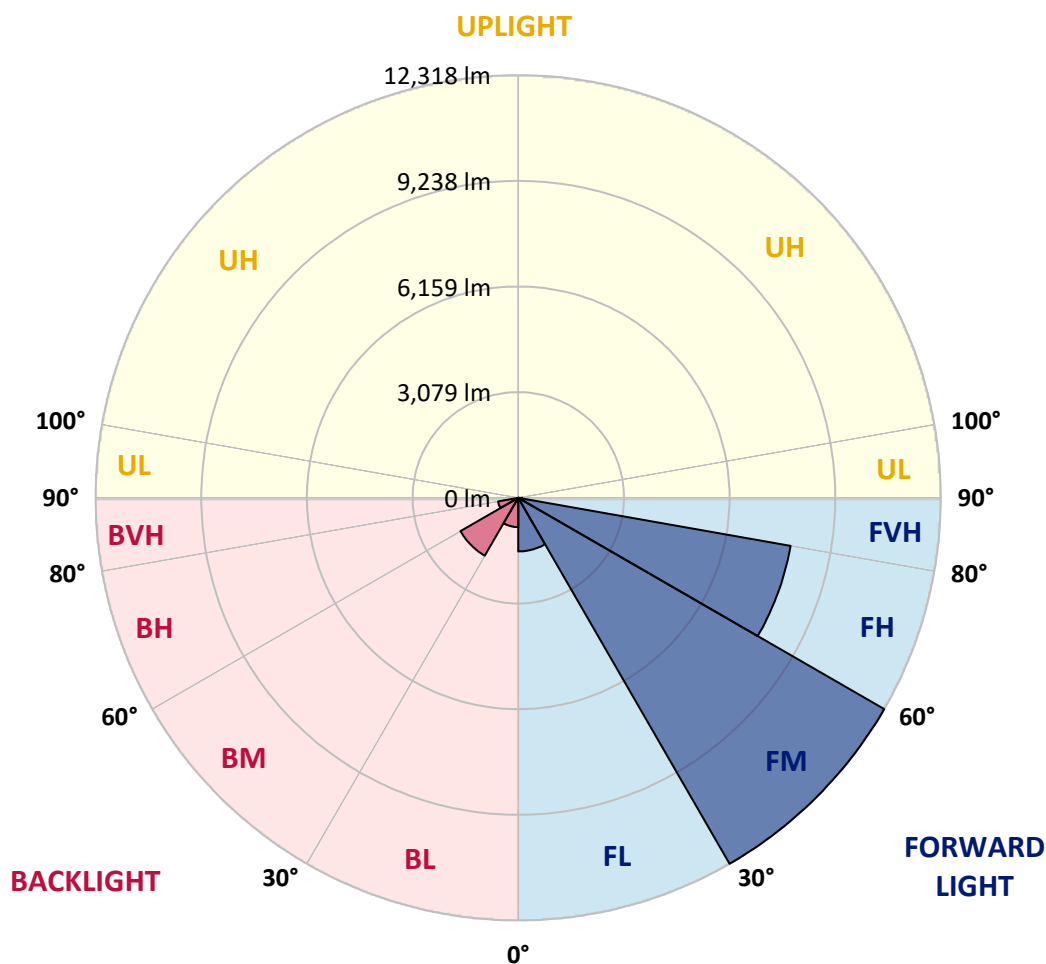
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1563.6	6.1			
FM	(30°-60°)	12318.0	48.4			
FH	(60°-80°)	8060.4	31.7			G4/12000
FVH	(80°-90°)	114.1	0.4			G2/225
BL	(0°-30°)	854.9	3.4	B2/1000		
BM	(30°-60°)	1946.6	7.6	B2/2500		
BH	(60°-80°)	597.6	2.3	B2/1000		G2/1000
BVH	(80°-90°)	5.9	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	2961.3	2961.3	2961.3	2961.3	2961.3	2961.3	2961.3	2961.3	2961.3	2961.3	2961.3
2.5°	2951.2	2971.6	2966.5	2961.3	2959.7	2963.1	2964.8	2963.1	2963.1	2963.1	2964.8
5°	2894.8	2911.9	2911.9	2923.8	2940.9	2961.3	2976.7	2980.2	2983.6	2988.7	2987.0
7.5°	2787.3	2800.9	2811.2	2850.4	2893.1	2947.7	2993.8	3017.7	3021.1	3039.8	3046.7
10°	2713.9	2730.9	2748.0	2789.0	2850.4	2932.3	3010.8	3069.0	3077.5	3121.8	3142.3
12.5°	2710.5	2727.5	2749.8	2794.1	2865.8	2952.8	3048.5	3132.1	3147.5	3212.2	3255.0
15°	2746.3	2766.8	2787.3	2841.9	2918.7	3024.6	3127.0	3231.1	3246.4	3338.6	3384.7
17.5°	2819.7	2847.0	2862.4	2917.0	2998.9	3116.7	3251.5	3371.0	3384.7	3492.2	3550.2
20°	2964.8	2997.2	3002.3	3046.7	3127.0	3253.2	3413.7	3562.2	3579.3	3702.2	3767.0
22.5°	3265.2	3311.3	3270.4	3292.5	3364.2	3490.5	3664.6	3852.4	3876.2	4016.3	4074.3
25°	3794.3	3859.2	3753.3	3715.8	3746.5	3878.0	4096.4	4333.7	4361.0	4473.6	4502.6
27.5°	4833.8	4750.2	4589.7	4432.7	4340.5	4415.6	4661.4	4955.0	4989.1	5098.3	5064.2
30°	5975.6	5902.3	5685.5	5337.3	5118.8	5106.9	5333.9	5661.6	5700.8	5805.0	5700.8
32.5°	7119.2	7049.2	6813.7	6385.3	6006.4	5818.6	5975.6	6339.2	6359.7	6426.2	6272.7
35°	8244.1	8172.4	7936.9	7498.2	7032.2	6605.5	6574.8	6984.5	6991.2	7061.2	6832.5
37.5°	9375.7	9315.9	9065.1	8634.9	8175.8	7586.9	7301.9	7595.5	7604.0	7672.2	7435.0
40°	10183.1	10208.7	10036.3	9703.5	9309.2	8665.7	8117.8	8245.8	8194.6	8309.0	8167.3
42.5°	10876.1	10927.2	10777.1	10609.8	10381.0	9814.4	9128.2	9106.0	9024.1	9085.5	8938.7
45°	11475.1	11517.8	11382.9	11343.7	11338.6	10940.8	10232.6	10099.4	9985.0	9973.1	9797.3
47.5°	11695.4	11777.2	11835.3	11966.7	12222.7	12055.4	11374.4	11167.9	11039.9	10946.0	10667.8
50°	11779.0	11866.0	12063.9	12446.4	13052.2	13123.9	12511.2	12279.1	12122.1	11951.3	11541.7
52.5°	11666.3	11821.6	12087.9	12731.3	13610.4	13980.8	13601.9	13398.7	13219.5	12941.3	12333.7
55°	11002.3	11157.6	11702.1	12727.9	13888.6	14581.5	14632.8	14542.3	14340.9	13902.3	12973.7
57.5°	9602.7	9833.1	10695.1	12294.5	13883.5	15098.8	15643.2	15708.1	15482.8	14854.7	13477.2
60°	7663.7	7976.1	9027.5	11333.4	13455.1	15378.7	16529.1	16853.4	16614.4	15793.4	13885.2
62.5°	5347.5	5709.4	6704.5	9828.0	12475.4	15177.3	17176.0	17775.1	17594.1	16633.2	14042.2
65°	3261.8	3377.9	4180.1	7733.7	10809.4	14334.1	17375.7	18273.5	18213.7	17147.0	13810.1
67.5°	2172.8	2270.1	2500.5	5303.1	8390.9	12649.4	16897.7	18186.5	18203.5	17063.4	12960.1
70°	1309.1	1392.8	1543.0	3084.2	5438.0	10012.4	15417.9	17077.0	17176.0	15945.3	11348.8
72.5°	539.4	595.7	732.3	1397.9	2816.3	6354.6	12277.3	14661.8	14892.2	13407.3	8710.0
75°	305.6	334.6	430.1	701.5	1222.1	2961.3	7436.7	10408.4	10748.0	9240.9	5240.0
77.5°	203.2	216.8	278.2	454.0	687.9	1010.4	3178.1	5422.7	6071.3	5047.1	2268.4
80°	136.5	148.5	191.2	303.8	447.2	433.6	1012.2	2009.0	2471.5	1734.2	553.0
82.5°	92.1	93.9	136.5	199.7	283.3	209.9	298.7	624.7	785.2	501.8	209.9
85°	52.9	51.2	100.7	116.0	126.3	87.0	90.5	187.8	245.8	211.7	119.5
87.5°	6.9	10.2	39.3	30.7	17.1	18.8	18.8	32.4	47.8	51.2	25.6
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°	2961.3	2961.3	2961.3	2961.3	2961.3	2961.3	2961.3	2961.3	2961.3	2961.3	2961.3
2.5°	2964.8	2963.1	2957.9	2952.8	2940.9	2934.1	2937.4	2934.1	2932.3	2934.1	2940.9
5°	2987.0	2981.8	2968.2	2951.2	2927.2	2898.2	2879.4	2852.2	2826.5	2811.2	2814.5
7.5°	3046.7	3041.6	3022.8	2975.1	2898.2	2777.0	2666.1	2568.9	2495.4	2452.7	2454.5
10°	3142.3	3133.7	3104.7	2998.9	2797.5	2533.0	2312.8	2130.2	2010.6	1954.4	1949.2
12.5°	3255.0	3244.7	3193.5	2976.7	2606.4	2193.3	1889.5	1686.3	1575.4	1525.9	1520.8
15°	3388.1	3374.4	3273.7	2870.9	2328.2	1817.8	1539.6	1387.6	1316.0	1271.6	1273.4
17.5°	3553.7	3529.8	3333.5	2712.1	2026.0	1531.0	1324.5	1210.1	1147.0	1104.3	1101.0
20°	3768.7	3729.5	3381.3	2522.7	1747.8	1350.1	1179.5	1083.8	1036.1	998.6	991.7
22.5°	4069.1	4012.8	3439.3	2317.9	1551.5	1225.5	1071.9	1001.9	962.7	920.0	913.2
25°	4441.2	4374.6	3510.9	2128.4	1416.7	1118.0	993.4	935.3	889.3	839.8	834.7
27.5°	4961.8	4842.3	3596.3	1973.1	1300.6	1025.8	921.7	856.8	803.9	763.0	754.4
30°	5542.2	5345.9	3671.4	1879.2	1194.8	940.4	827.8	763.0	713.5	684.5	679.4
32.5°	6091.8	5825.5	3721.0	1838.2	1099.2	843.2	725.4	655.4	617.9	609.4	614.5
35°	6610.6	6259.0	3715.8	1799.0	1013.8	745.9	624.7	553.0	524.0	529.1	529.1
37.5°	7208.0	6721.5	3680.0	1737.6	943.9	657.1	537.6	474.5	449.0	450.6	457.5
40°	7902.7	7255.8	3657.8	1621.6	867.0	575.2	466.0	414.7	396.0	389.2	387.4
42.5°	8643.5	7773.0	3661.2	1490.0	771.5	501.8	416.5	373.8	356.7	351.6	349.9
45°	9387.7	8266.2	3666.3	1353.5	670.8	445.5	380.6	344.8	334.6	327.7	327.7
47.5°	10087.4	8686.2	3570.7	1206.7	571.7	402.8	351.6	327.7	319.2	310.7	310.7
50°	10739.4	8966.1	3340.3	1036.1	493.2	368.7	329.4	312.3	303.8	295.3	295.3
52.5°	11246.4	9010.5	2959.7	860.3	438.7	343.1	315.8	300.4	290.2	281.7	279.9
55°	11471.7	8732.2	2418.6	696.4	396.0	320.9	302.1	286.8	274.8	266.3	264.6
57.5°	11413.7	8146.8	1886.1	559.9	355.1	298.7	285.1	274.8	261.2	247.5	245.8
60°	11128.6	7363.3	1421.8	466.0	317.4	274.8	266.3	257.7	238.9	218.4	215.0
62.5°	10635.4	6378.5	1013.8	385.7	276.5	247.5	244.1	237.3	209.9	172.4	169.0
65°	9880.9	5182.0	682.8	320.9	237.3	216.8	218.4	206.5	170.7	128.0	124.6
67.5°	8778.3	3789.2	437.0	262.8	198.0	180.9	182.7	175.8	145.0	109.3	104.1
70°	7373.5	2509.1	285.1	199.7	158.8	139.9	150.2	151.9	122.9	88.8	85.4
72.5°	5405.5	1481.5	199.7	148.5	116.0	97.3	122.9	126.3	99.0	66.5	63.1
75°	3080.8	703.3	150.2	107.5	71.6	68.3	95.6	95.6	68.3	44.4	41.0
77.5°	1293.8	293.6	105.8	70.0	41.0	39.3	64.9	59.8	34.1	20.5	20.5
80°	373.8	131.4	56.4	34.1	17.1	15.4	25.6	18.8	8.5	3.4	3.4
82.5°	146.8	58.0	22.1	13.6	6.9	6.9	3.4	0.0	0.0	0.0	0.0
85°	87.0	23.9	10.2	5.1	1.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	22.1	5.1	3.4	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)