

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: P970374

Luminaire Tested: **NAV-SB6B-735-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970374
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6B-735-U-T4FT-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26500.3 lumens
Efficiency: N/A
Efficacy: 120.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - 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

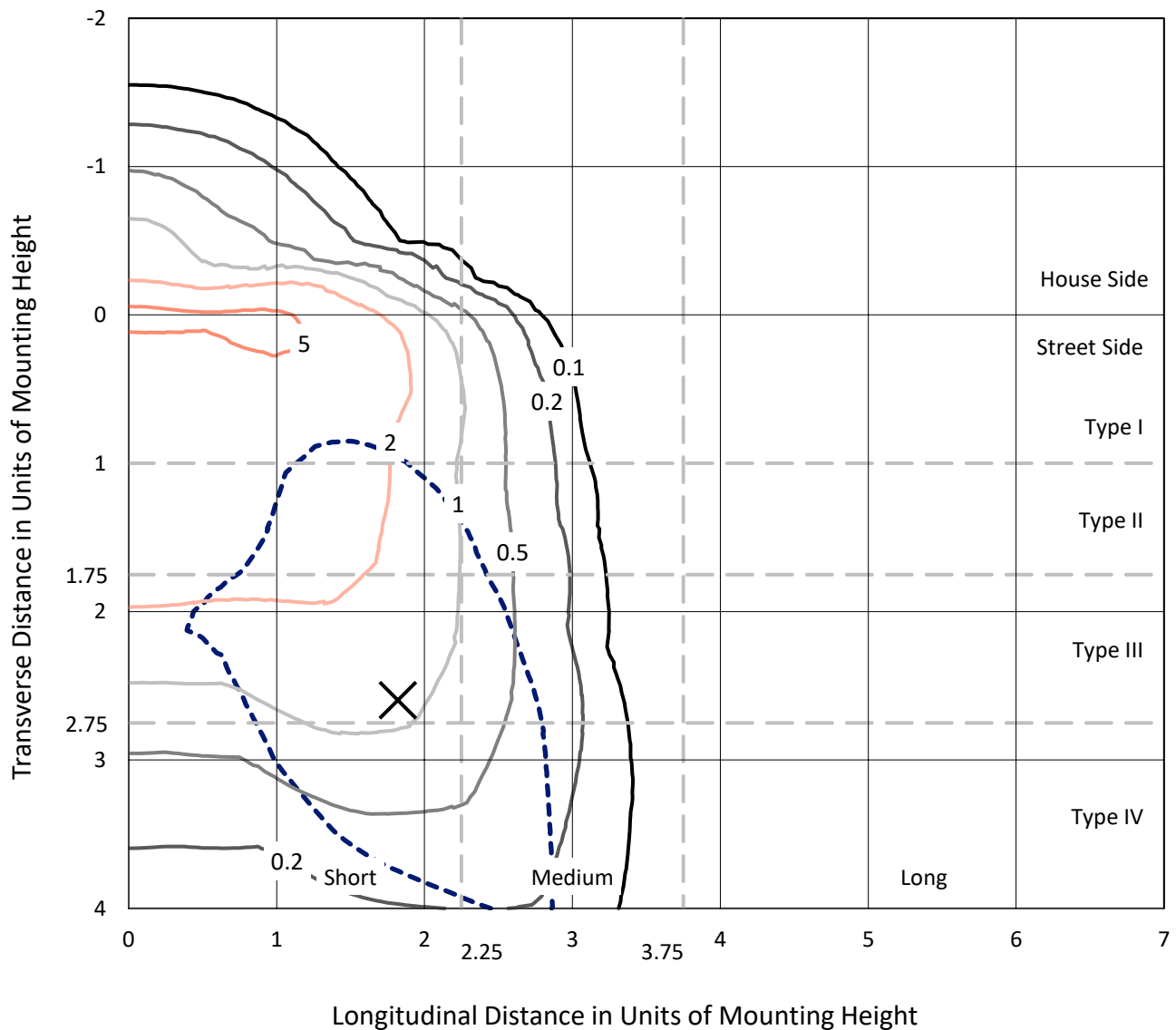


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Iso-Footcandle Lines of Horizontal Illumination

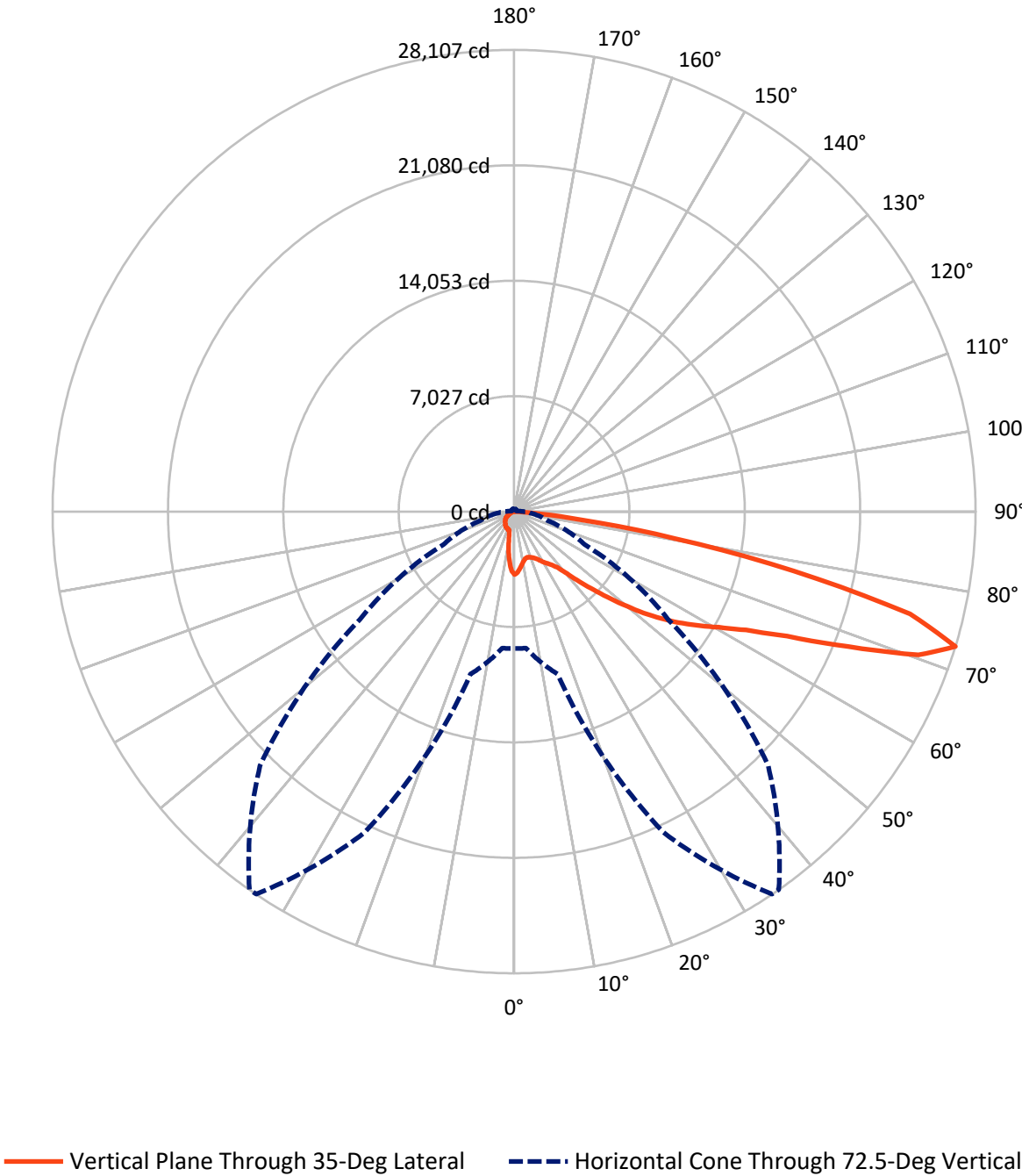
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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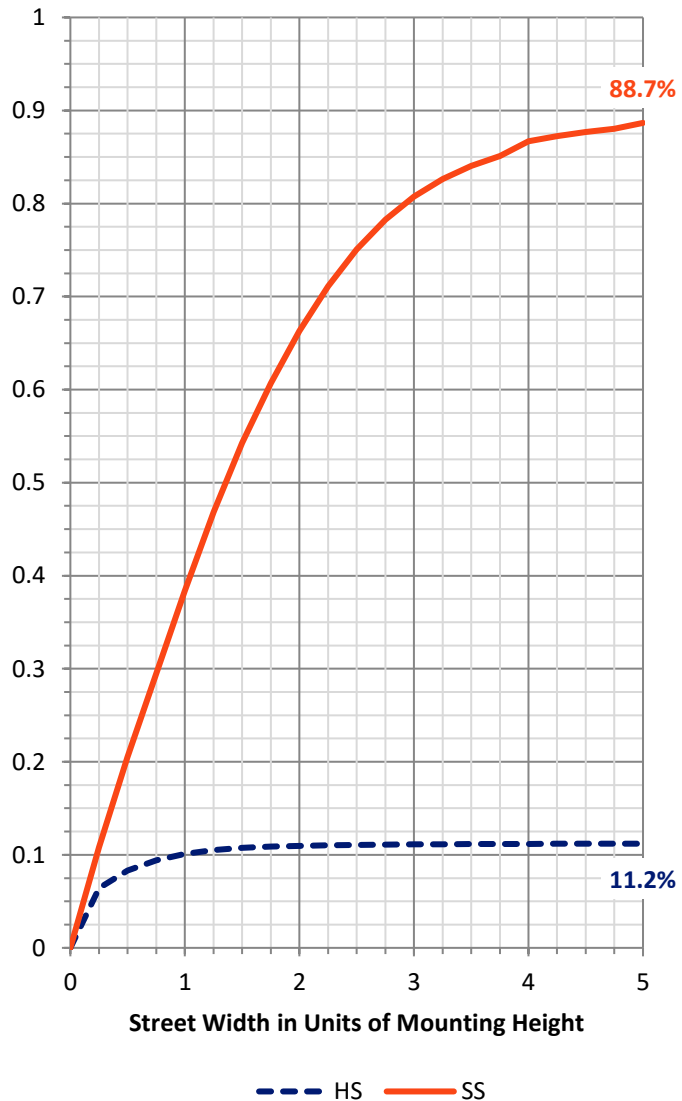
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2982.5	0.0	2982.5
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	23517.9	0.0	23517.9
	% Fixture	88.7	0.0	88.7
Total	Lumens	26500.3	0.0	26500.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	315.6	1.2
10°-20°	738.3	2.8
20°-30°	1199.4	4.5
30°-40°	2001.2	7.6
40°-50°	3786.3	14.3
50°-60°	6016.4	22.7
60°-70°	7442.7	28.1
70°-80°	4626.5	17.5
80°-90°	373.9	1.4
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°	26500.3	100.0
0°-180°	26500.3	100.0

Coefficient of Utilization



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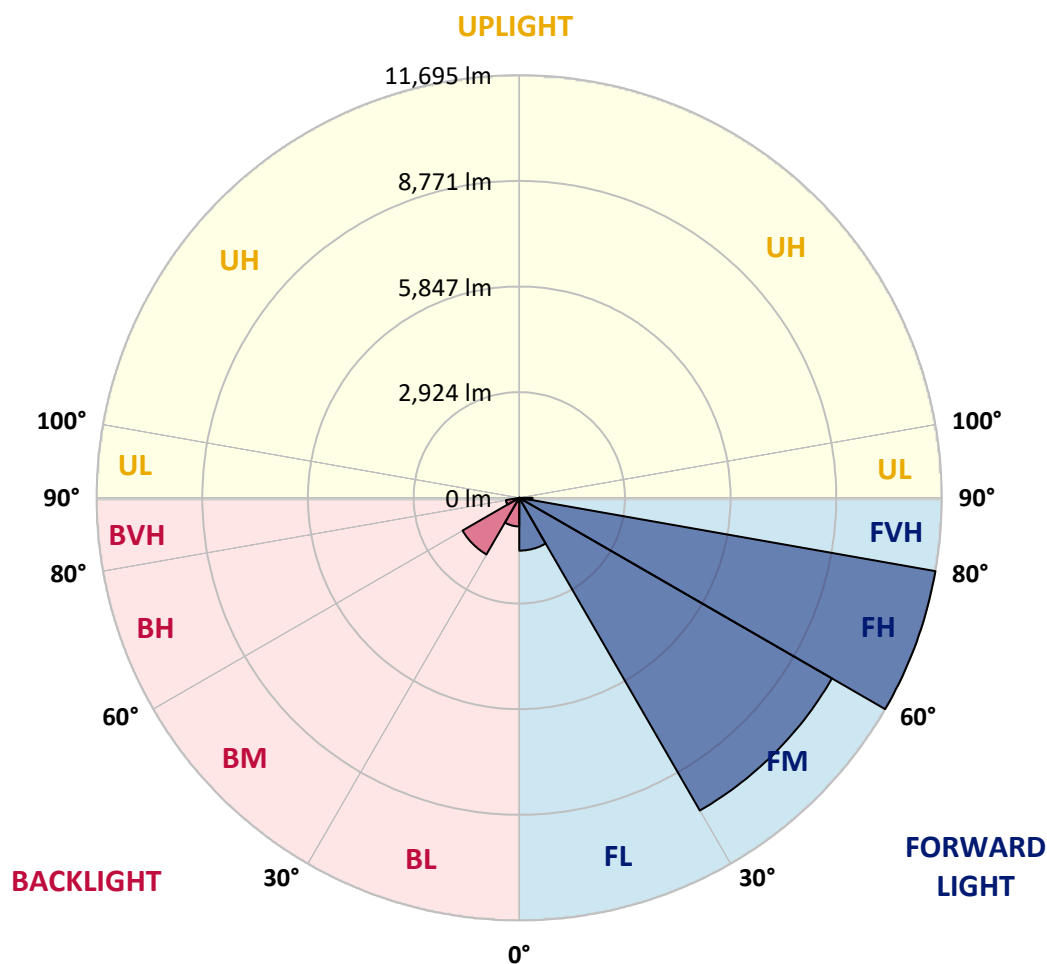
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1460.8	5.5			
FM	(30°-60°)	9993.3	37.7			
FH	(60°-80°)	11694.9	44.1			G4/12000
FVH	(80°-90°)	368.8	1.4			G3/500
BL	(0°-30°)	792.5	3.0	B2/1000		
BM	(30°-60°)	1810.6	6.8	B2/2500		
BH	(60°-80°)	374.3	1.4	B1/500		G1/500
BVH	(80°-90°)	5.1	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	3840.8	3840.8	3840.8	3840.8	3840.8	3840.8	3840.8	3840.8	3840.8	3840.8	3840.8
2.5°	3669.9	3701.0	3706.8	3716.5	3716.5	3728.1	3747.6	3774.8	3819.5	3842.7	3858.3
5°	3382.5	3405.9	3435.0	3458.2	3502.9	3508.8	3584.5	3658.2	3761.1	3838.8	3893.3
7.5°	3093.2	3120.4	3159.3	3215.5	3273.7	3291.3	3405.9	3530.1	3693.2	3838.8	3930.2
10°	2889.4	2891.3	2926.3	2982.5	3075.7	3097.1	3237.0	3413.6	3617.5	3815.6	3965.1
12.5°	2774.8	2788.3	2803.9	2846.6	2935.9	2949.5	3099.1	3306.9	3541.8	3801.9	4005.8
15°	2774.8	2784.5	2794.1	2815.6	2887.4	2899.0	3031.0	3238.8	3502.9	3807.8	4071.8
17.5°	2803.9	2819.5	2811.7	2836.9	2912.6	2920.4	3036.9	3219.4	3501.0	3844.7	4172.9
20°	2873.8	2885.5	2869.9	2885.5	2961.2	2976.7	3097.1	3256.3	3534.0	3908.7	4299.1
22.5°	2984.5	2990.3	2953.4	2965.0	3042.7	3062.2	3202.0	3361.2	3613.6	4011.6	4468.0
25°	3124.3	3135.9	3079.6	3093.2	3167.0	3190.3	3351.4	3518.4	3739.8	4153.4	4683.5
27.5°	3285.4	3291.3	3242.7	3240.7	3336.0	3369.0	3532.0	3712.7	3908.7	4332.1	4955.4
30°	3469.9	3487.4	3440.8	3433.0	3553.4	3580.6	3741.8	3951.5	4157.3	4600.0	5341.8
32.5°	3615.6	3629.1	3602.0	3621.3	3743.7	3765.0	3996.2	4289.3	4547.6	4980.6	5868.0
35°	3825.3	3833.0	3770.9	3805.8	3945.6	4000.1	4343.7	4763.1	5038.9	5458.2	6555.4
37.5°	4584.5	4584.5	4320.4	4147.6	4281.5	4330.1	4819.4	5359.2	5644.7	6099.1	7421.4
40°	5634.9	5617.5	5231.1	4877.7	4860.2	4955.4	5497.1	6110.7	6427.2	6868.0	8396.2
42.5°	6755.4	6728.2	6202.0	5852.4	5794.2	5827.2	6279.7	7036.9	7359.3	7805.9	9444.7
45°	7749.5	7741.7	7260.2	6790.3	6685.5	6790.3	7256.4	8120.5	8351.5	8821.4	10491.3
47.5°	8582.5	8582.5	8231.1	7924.3	7869.9	7932.1	8578.6	9322.4	9301.0	9902.9	11510.7
50°	9541.8	9534.0	9200.0	9068.0	9124.3	9211.7	10101.0	10588.4	10283.5	10965.0	12421.4
52.5°	10213.6	10260.2	10145.7	10124.3	10411.6	10563.1	11646.7	11827.3	11163.2	11972.8	13103.0
55°	10745.7	10800.0	10932.0	11081.6	11635.0	11833.0	13143.8	13002.0	11899.0	12846.6	13495.2
57.5°	11499.1	11421.4	11625.2	11920.4	12815.6	13054.4	14594.3	14110.8	12491.3	13555.4	13537.9
60°	12413.7	12425.3	12460.2	12833.1	13994.2	14301.0	16023.3	15159.2	12871.8	13990.3	13064.1
62.5°	13512.7	13530.1	13602.0	14174.8	15576.7	15866.1	17545.6	16017.6	13046.6	13868.0	11840.8
65°	13436.9	13510.7	14312.7	16271.9	17982.6	18268.1	19322.4	16619.5	12782.6	12749.6	9640.8
67.5°	12240.9	12361.2	13702.9	18776.8	21609.8	21928.2	21470.0	16737.9	11642.8	9914.6	6289.3
70°	10671.9	10714.6	12328.2	21029.2	25809.8	26132.2	23392.3	15435.0	8835.0	5530.1	2817.5
72.5°	8334.0	8343.7	10236.9	21551.5	28089.4	28106.9	21883.5	11458.3	4751.5	2124.3	978.7
75°	5953.4	5895.2	6856.3	17477.7	24712.7	24910.8	16405.8	5374.8	1815.6	1003.9	487.4
77.5°	3192.3	3256.3	3879.6	10365.1	17071.9	17409.7	8951.5	1549.5	924.2	683.5	322.4
80°	986.5	1040.8	1590.3	4745.6	9670.0	9873.8	3318.4	689.3	644.6	487.4	211.7
82.5°	310.7	322.4	741.8	1994.1	4013.6	4106.8	961.1	390.3	440.7	322.4	124.2
85°	89.3	91.2	330.0	743.7	992.2	1011.7	269.9	151.5	252.5	200.0	64.1
87.5°	9.7	31.1	124.2	124.2	87.3	85.5	29.1	33.0	71.9	25.2	11.7
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°	3840.8	3840.8	3840.8	3840.8	3840.8	3840.8	3840.8	3840.8	3840.8	3840.8	3840.8
2.5°	3848.6	3850.5	3825.3	3782.6	3735.9	3697.1	3648.6	3609.7	3582.6	3574.8	3588.3
5°	3875.7	3862.1	3790.3	3660.2	3504.9	3370.9	3221.4	3102.9	3025.3	2992.3	3003.9
7.5°	3916.5	3877.7	3720.4	3464.1	3167.0	2902.9	2635.0	2427.2	2295.2	2229.2	2238.8
10°	3951.5	3873.8	3603.9	3180.6	2726.2	2326.2	1965.0	1714.5	1574.8	1508.7	1510.6
12.5°	3984.5	3871.8	3452.4	2844.7	2229.2	1739.8	1403.8	1279.6	1240.8	1227.2	1223.3
15°	4046.6	3877.7	3262.2	2460.2	1734.0	1314.6	1192.3	1190.3	1198.0	1194.2	1192.3
17.5°	4132.1	3883.5	3046.6	2052.5	1337.8	1159.3	1153.4	1170.9	1182.5	1176.7	1174.8
20°	4242.8	3906.8	2817.5	1648.5	1149.5	1120.4	1134.0	1149.5	1159.3	1149.5	1147.6
22.5°	4398.1	3947.6	2567.0	1324.3	1089.4	1097.1	1108.7	1126.2	1135.9	1122.4	1120.4
25°	4588.4	4011.6	2320.4	1151.5	1060.2	1069.9	1087.4	1106.8	1118.5	1104.8	1102.9
27.5°	4834.9	4114.6	2093.3	1112.6	1031.0	1036.9	1062.1	1091.2	1106.8	1089.4	1089.4
30°	5192.2	4283.5	1897.1	1130.1	1013.6	1000.0	1034.9	1075.7	1093.2	1077.7	1075.7
32.5°	5666.0	4522.3	1776.7	1157.3	1005.8	957.2	990.3	1042.7	1071.8	1062.1	1062.1
35°	6287.3	4885.5	1730.1	1188.4	1000.0	912.7	935.9	992.2	1042.7	1052.5	1052.5
37.5°	7040.8	5390.3	1743.7	1201.9	982.6	875.8	887.3	935.9	1001.9	1033.0	1040.8
40°	7897.1	5978.6	1821.3	1188.4	963.1	844.7	846.6	883.4	941.8	988.3	1003.9
42.5°	8780.6	6666.1	1965.0	1137.9	945.7	817.4	811.7	836.9	875.8	908.8	922.3
45°	9621.4	7372.8	2106.8	1067.9	924.2	790.3	776.7	786.4	794.2	807.8	815.5
47.5°	10355.4	7869.9	2066.0	1003.9	895.1	759.2	735.9	732.1	708.8	706.8	704.9
50°	10862.1	7978.7	1835.0	939.8	852.4	724.3	687.4	664.1	623.3	603.9	605.9
52.5°	11023.4	7549.5	1499.1	875.8	782.5	677.6	625.2	588.3	537.8	520.4	518.4
55°	10809.8	6708.7	1198.0	798.1	685.4	615.5	557.3	508.7	467.9	446.6	446.6
57.5°	10287.4	5638.8	947.6	706.8	582.5	545.6	487.4	438.8	403.8	382.5	378.6
60°	9421.4	4477.7	749.5	598.1	497.1	469.9	409.7	378.6	347.6	322.4	316.5
62.5°	8106.8	3196.2	588.3	473.8	415.5	384.5	349.5	326.3	289.4	254.4	248.6
65°	6326.2	1955.4	454.4	347.6	333.9	318.5	297.0	275.7	231.0	196.1	190.3
67.5°	3990.3	926.2	324.3	262.1	264.0	256.4	246.6	229.1	196.1	165.0	161.1
70°	1757.3	448.5	213.6	200.0	196.1	196.1	203.9	198.0	167.0	137.9	132.0
72.5°	598.1	240.8	159.2	151.5	141.8	139.8	170.9	165.0	134.0	106.8	101.0
75°	312.6	161.1	116.5	108.8	85.5	102.9	135.9	128.1	95.1	69.9	64.1
77.5°	203.9	114.6	79.6	69.9	48.6	68.0	101.0	89.3	56.3	35.0	31.1
80°	128.1	75.7	46.6	33.0	23.3	36.9	54.3	38.8	21.3	7.8	5.8
82.5°	68.0	38.8	17.4	11.7	9.7	11.7	13.6	9.7	3.9	0.0	0.0
85°	27.2	13.6	5.8	3.9	1.9	0.0	3.9	1.9	0.0	0.0	0.0
87.5°	9.7	1.9	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)