

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: P970365

Luminaire Tested: **NAV-SB6B-735-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970365
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-SB6B-735-U-T2R-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 450mA 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: 29634.8 lumens
Efficiency: N/A
Efficacy: 134.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
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

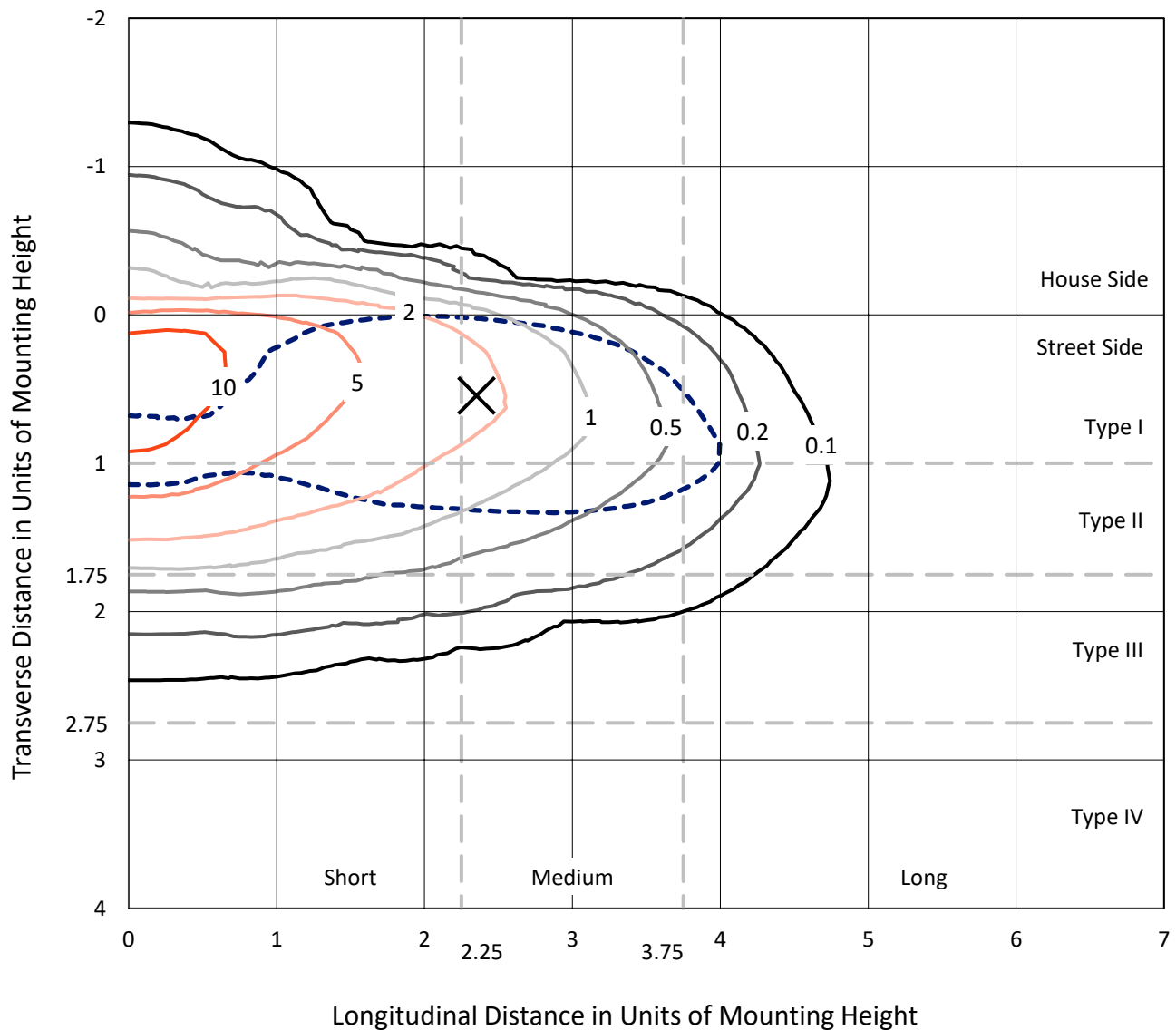


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Iso-Footcandle Lines of Horizontal Illumination

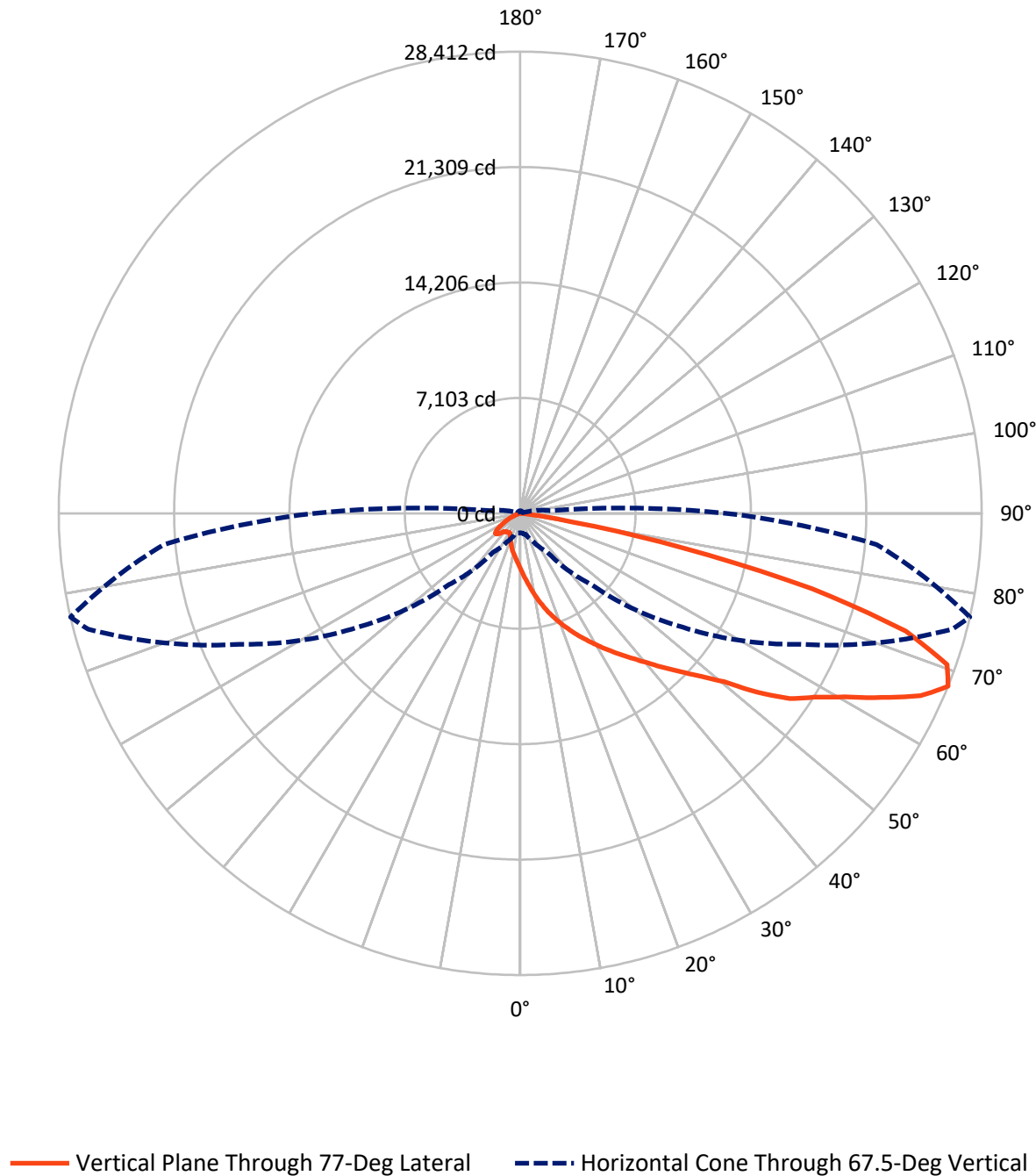
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.8 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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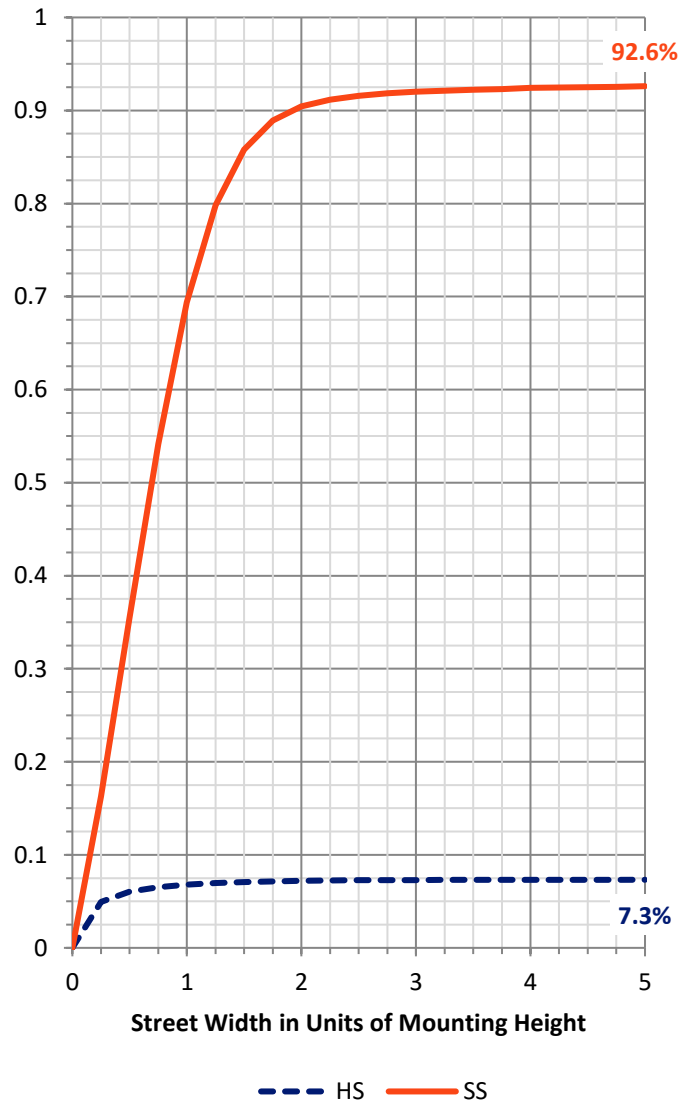
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2180.2	0.0	2180.2
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	27454.6	0.0	27454.6
	% Fixture	92.6	0.0	92.6
Total	Lumens	29634.8	0.0	29634.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	348.8	1.2
10°-20°	1221.4	4.1
20°-30°	2357.0	8.0
30°-40°	4091.9	13.8
40°-50°	5941.3	20.0
50°-60°	6822.8	23.0
60°-70°	5923.5	20.0
70°-80°	2790.0	9.4
80°-90°	138.0	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°	29634.8	100.0
0°-180°	29634.8	100.0

Coefficient of Utilization



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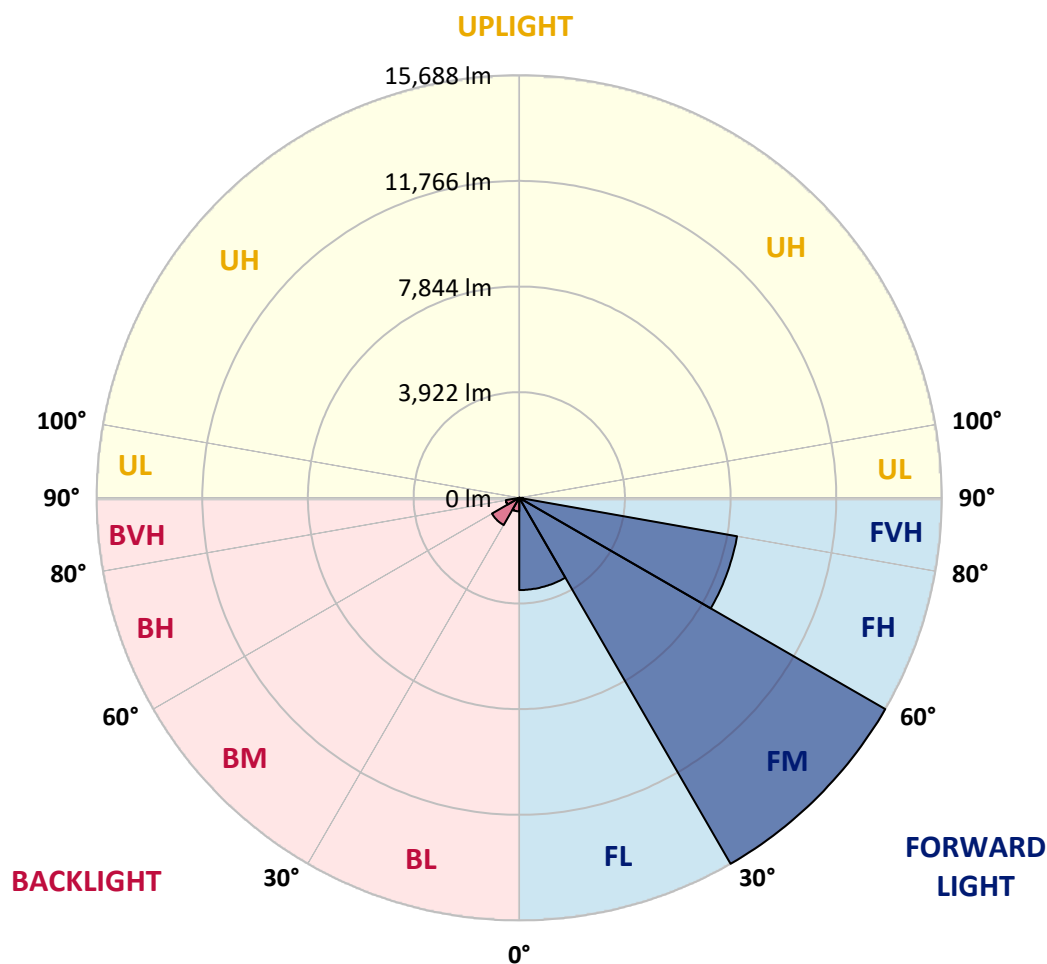
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3422.5	11.5			
FM	(30°-60°)	15687.9	52.9			
FH	(60°-80°)	8208.7	27.7			G4/12000
FVH	(80°-90°)	135.4	0.5			G2/225
BL	(0°-30°)	504.8	1.7	B2/1000		
BM	(30°-60°)	1168.2	3.9	B2/2500		
BH	(60°-80°)	504.7	1.7	B2/1000		G2/1000
BVH	(80°-90°)	2.5	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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	3417.4	3417.4	3417.4	3417.4	3417.4	3417.4	3417.4	3417.4	3417.4	3417.4	3417.4
2.5°	4731.3	4760.7	4718.4	4637.4	4515.9	4436.8	4243.6	4061.5	3859.0	3794.6	3592.1
5°	5767.3	5793.1	5745.2	5656.9	5494.9	5340.4	5086.5	4705.5	4309.8	4182.8	3824.1
7.5°	6534.7	6549.4	6531.0	6450.0	6295.4	6120.7	5837.3	5386.4	4799.4	4659.4	4109.2
10°	7086.7	7134.6	7129.1	7097.8	6994.8	6853.0	6551.3	6037.9	5347.7	5167.4	4431.3
12.5°	7453.0	7506.4	7537.6	7607.6	7602.0	7511.8	7246.9	6704.0	5894.3	5682.7	4793.8
15°	7559.7	7616.8	7736.4	7898.3	8041.8	8087.9	7902.0	7357.2	6496.0	6225.5	5165.6
17.5°	7499.0	7587.4	7730.9	7986.7	8301.4	8509.2	8489.0	7988.4	7042.6	6733.4	5529.9
20°	7633.3	7717.9	7830.2	8045.5	8411.8	8789.0	8939.8	8592.1	7585.5	7261.6	5912.7
22.5°	8376.8	8362.1	8373.1	8408.1	8627.0	9000.6	9311.6	9140.4	8122.8	7791.5	6317.6
25°	9554.5	9488.3	9376.0	9186.5	9131.3	9311.6	9635.5	9626.3	8689.6	8334.5	6731.6
27.5°	10905.3	10894.2	10631.1	10174.7	9917.1	9847.2	10001.7	10099.2	9250.9	8871.8	7147.5
30°	12198.9	12228.4	11873.2	11365.3	10892.4	10618.2	10478.4	10548.3	9821.3	9451.5	7576.3
32.5°	13325.2	13356.5	12970.0	12375.6	11790.5	11459.2	11164.7	10991.8	10443.4	10040.4	8047.4
35°	14276.6	14307.9	13864.4	13207.4	12583.6	12283.6	11950.6	11477.5	11069.1	10693.6	8571.9
37.5°	15126.7	15117.6	14523.2	13860.7	13247.9	13010.5	12835.7	12075.6	11713.1	11350.6	9153.4
40°	15629.2	15667.8	15160.0	14429.3	13834.9	13661.9	13651.0	12817.3	12456.6	12105.1	9790.1
42.5°	15776.4	15844.4	15476.5	14876.5	14337.3	14149.6	14438.6	13619.6	13321.5	12979.3	10509.6
45°	15511.4	15577.6	15410.2	14994.3	14679.6	14558.2	15115.8	14451.4	14245.3	13906.7	11321.1
47.5°	14738.5	14821.3	14861.8	14773.4	14769.7	14893.0	15723.0	15327.3	15342.1	14996.2	12261.6
50°	13242.4	13382.2	13754.0	14066.8	14550.8	15158.1	16313.7	16276.9	16578.8	16280.6	13487.2
52.5°	10522.5	10721.3	12002.0	12857.8	13945.3	15108.4	16963.3	17800.7	18748.4	18312.2	15215.1
55°	8455.9	8455.9	9497.4	11098.5	12763.9	14780.8	17246.8	18790.7	20226.1	20123.0	16431.5
57.5°	6893.5	6976.4	7640.7	9055.9	11054.3	14000.6	17421.5	19412.7	21416.8	21341.3	17620.3
60°	4254.7	4433.1	5688.1	7084.9	9109.2	12611.2	17311.1	20042.0	22861.3	22922.1	19052.0
62.5°	2396.0	2462.3	3021.7	5097.4	7083.1	10743.3	16466.5	20393.6	24709.0	24966.5	20527.9
65°	1654.4	1687.5	1902.8	3172.6	4909.8	8553.4	14815.8	20174.6	26560.2	27081.0	21779.3
67.5°	1201.7	1218.2	1352.6	1937.8	2913.2	6201.7	12228.4	19070.4	27541.0	28411.5	22018.5
70°	923.8	934.8	1032.4	1273.5	1720.7	3827.7	8881.0	16875.0	26830.7	27870.5	20792.8
72.5°	750.8	761.9	837.3	942.2	1140.9	2263.5	5382.7	13704.2	23694.9	24817.5	17701.2
75°	633.0	647.8	715.9	783.9	894.3	1453.8	2524.8	9543.5	17819.0	18555.2	12309.3
77.5°	351.5	323.9	581.5	649.6	754.5	920.1	1181.4	5616.4	9979.6	10183.9	5461.8
80°	218.9	226.3	461.9	522.6	579.6	463.7	541.0	2162.2	3459.7	3286.7	1058.1
82.5°	12.9	29.4	355.2	377.2	397.5	198.7	204.3	734.2	833.6	765.6	187.7
85°	0.0	0.0	162.0	130.7	138.1	57.1	58.9	171.2	112.2	121.5	36.8
87.5°	0.0	0.0	0.0	3.7	0.0	5.5	11.1	14.8	5.5	7.4	12.9
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°	3417.4	3417.4	3417.4	3417.4	3417.4	3417.4	3417.4	3417.4	3417.4	3417.4	3417.4
2.5°	3463.4	3334.5	3073.2	2817.4	2609.4	2416.2	2278.3	2147.6	2081.3	2077.7	2074.0
5°	3568.2	3297.7	2775.1	2313.2	1941.5	1643.4	1450.1	1312.1	1242.2	1218.2	1214.5
7.5°	3715.4	3308.8	2513.8	1871.5	1433.6	1177.7	1067.3	1023.2	1008.5	991.9	988.2
10°	3901.4	3334.5	2280.0	1507.2	1129.9	1001.1	956.9	938.5	927.5	916.5	912.8
12.5°	4109.2	3358.4	2048.2	1251.3	993.7	927.5	896.2	874.1	859.4	846.5	842.9
15°	4311.7	3373.2	1807.1	1072.9	923.8	870.4	837.3	813.3	793.1	778.4	776.5
17.5°	4512.3	3393.4	1580.8	966.2	866.7	813.3	780.2	750.8	734.2	717.7	715.9
20°	4735.0	3389.7	1367.4	890.7	809.7	756.3	721.4	693.7	677.2	658.8	656.9
22.5°	4941.0	3371.3	1179.6	826.3	750.8	699.3	660.6	633.0	616.4	601.8	599.9
25°	5178.4	3356.6	1023.2	767.4	695.6	644.1	601.8	575.9	557.6	544.7	542.8
27.5°	5406.7	3334.5	909.1	714.0	642.3	592.6	552.1	522.6	506.0	496.8	496.8
30°	5631.1	3329.0	866.7	662.5	594.4	544.7	504.2	476.6	463.7	460.0	458.2
32.5°	5901.6	3343.8	885.2	644.1	550.2	500.5	461.9	441.7	428.8	428.8	428.8
35°	6190.6	3340.1	912.8	660.6	520.8	456.3	426.9	414.1	401.2	401.2	401.2
37.5°	6553.1	3345.6	934.8	688.3	509.7	419.5	403.0	386.4	379.0	379.0	379.0
40°	7094.1	3527.7	923.8	712.2	506.0	393.8	360.7	355.2	349.6	349.6	349.6
42.5°	7756.6	3923.4	938.5	714.0	504.2	375.5	331.3	342.2	329.4	327.6	325.7
45°	8481.7	4355.8	1032.4	675.4	502.4	366.2	316.5	329.4	309.1	309.1	309.1
47.5°	9201.2	4784.6	1128.1	620.1	496.8	364.4	303.6	296.3	290.8	292.6	292.6
50°	10193.1	5134.2	1164.9	544.7	484.0	360.7	279.7	281.6	277.9	281.6	281.6
52.5°	11273.4	5207.9	1120.7	460.0	447.2	349.6	263.1	270.5	268.7	272.3	272.3
55°	11946.9	5128.8	925.7	382.7	390.1	305.4	246.6	261.3	261.3	261.3	261.3
57.5°	12642.5	4792.0	656.9	311.0	323.9	250.3	231.9	252.2	250.3	248.5	248.5
60°	13143.0	4247.3	432.4	255.8	257.7	206.1	215.4	237.4	235.5	226.3	226.3
62.5°	13516.6	3645.5	277.9	217.2	196.9	185.8	196.9	215.4	208.0	187.7	184.0
65°	13474.2	2811.9	213.5	185.8	162.0	162.0	171.2	187.7	165.6	132.5	128.8
67.5°	12688.5	1902.8	176.7	156.4	136.2	134.4	141.7	156.4	141.7	112.2	108.5
70°	11284.3	1244.0	141.7	121.5	108.5	99.3	114.1	134.4	119.6	90.2	86.5
72.5°	9158.9	758.2	106.7	88.4	79.1	64.4	90.2	110.4	95.7	66.2	62.5
75°	5925.6	386.4	73.6	57.1	42.3	38.6	66.2	82.8	66.2	40.5	35.0
77.5°	2267.2	162.0	40.5	25.7	22.0	18.4	36.8	49.7	27.6	9.2	7.4
80°	436.1	68.1	20.2	12.9	11.1	7.4	5.5	3.7	0.0	0.0	0.0
82.5°	75.4	22.0	7.4	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	25.7	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.2	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)