

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: P970923

Luminaire Tested: **NAV-SB6C-740-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970923
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-SB6C-740-U-T2R-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 4000K, 615mA 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: 41698 lumens
Efficiency: N/A
Efficacy: 138.6 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): 300.9
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



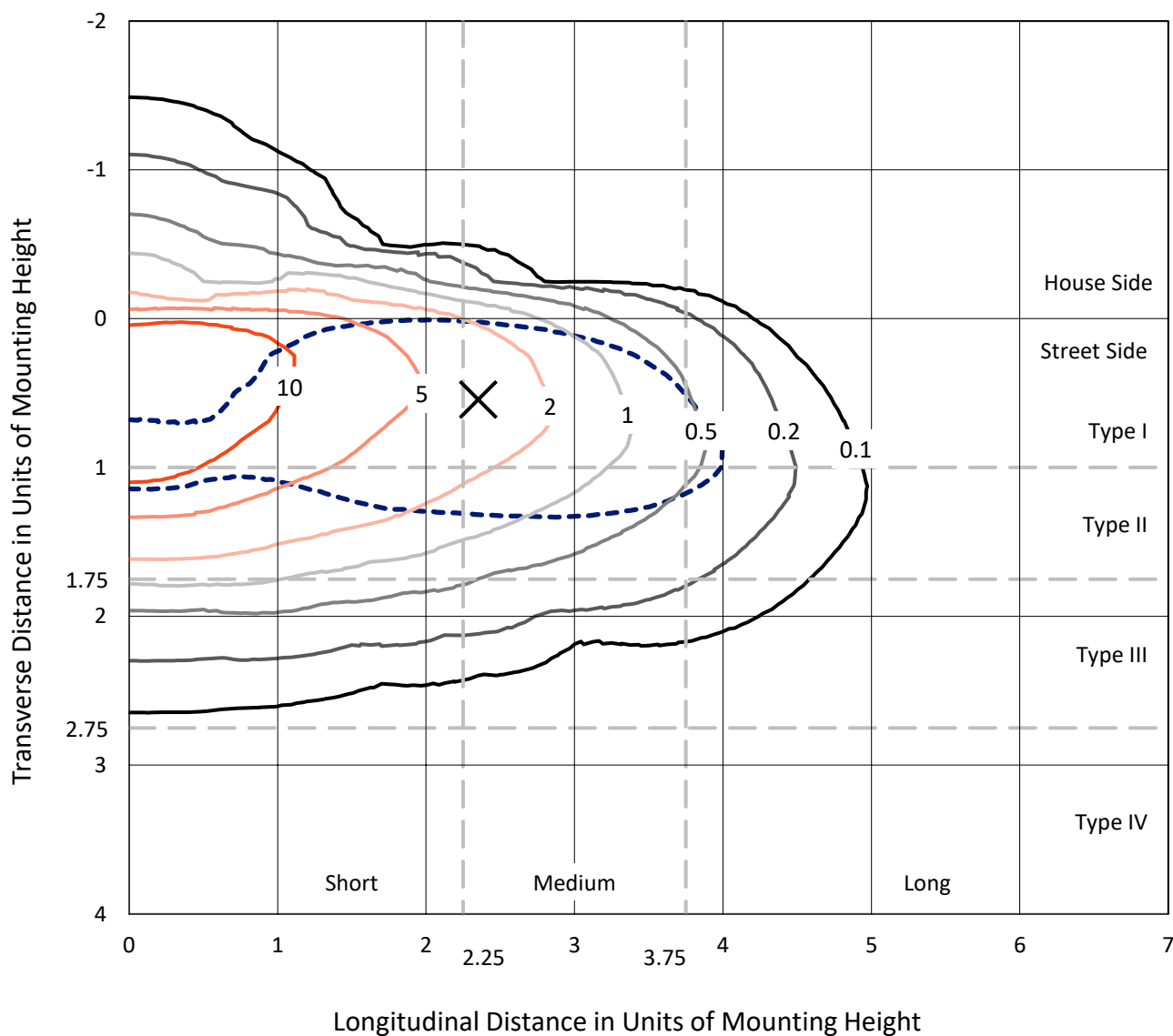
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

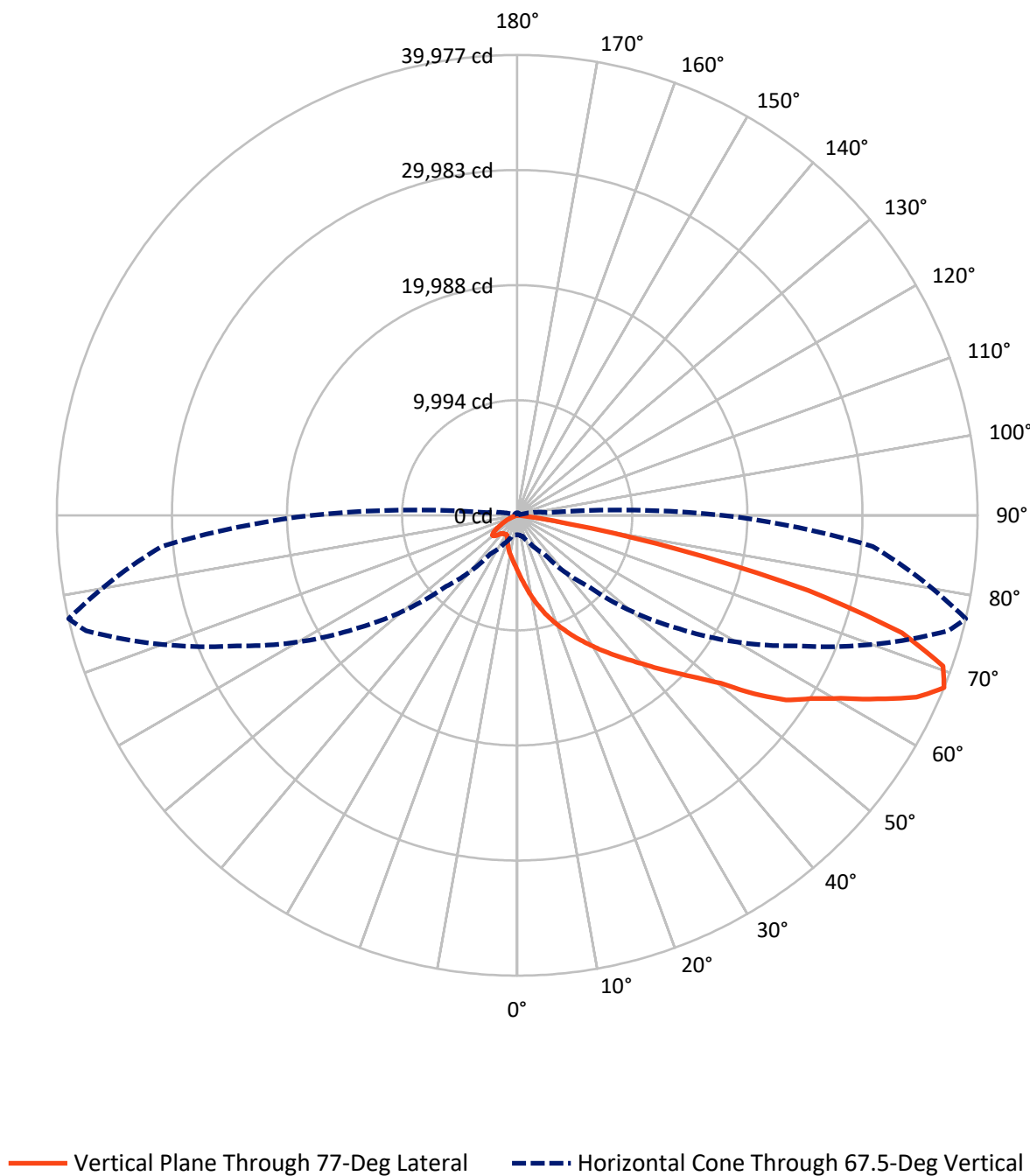
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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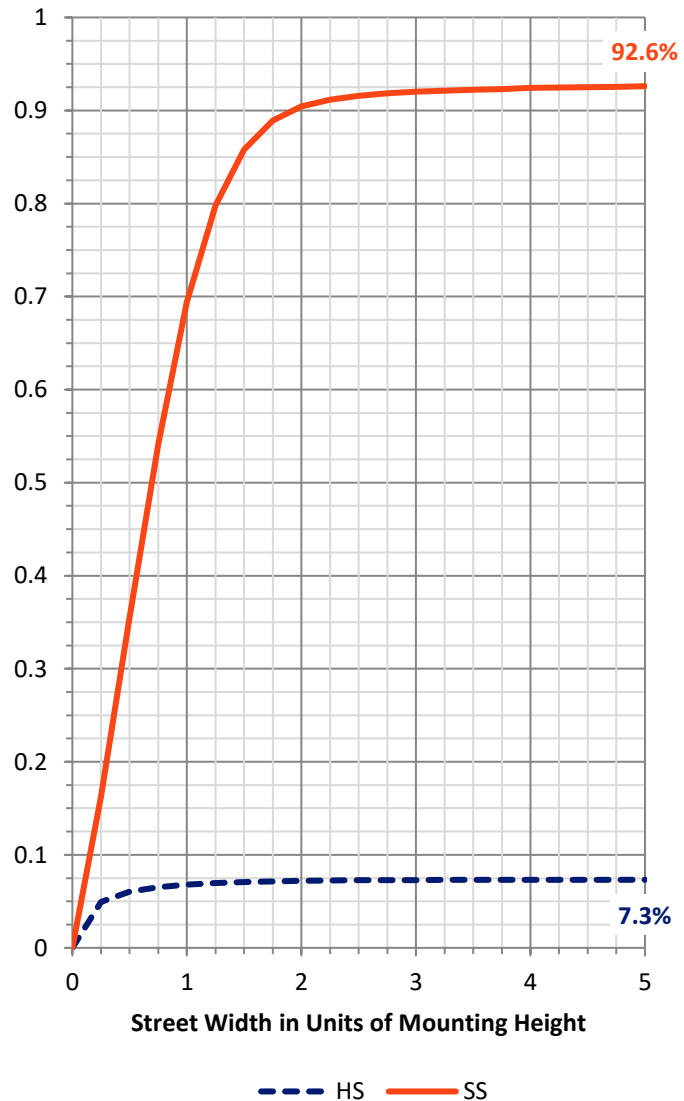
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3067.8	0.0	3067.8
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	38630.3	0.0	38630.3
	% Fixture	92.6	0.0	92.6
Total	Lumens	41698.0	0.0	41698.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	490.8	1.2
10°-20°	1718.6	4.1
20°-30°	3316.5	8.0
30°-40°	5757.6	13.8
40°-50°	8359.8	20.0
50°-60°	9600.1	23.0
60°-70°	8334.7	20.0
70°-80°	3925.7	9.4
80°-90°	194.1	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°	41698.0	100.0
0°-180°	41698.0	100.0

Coefficient of Utilization



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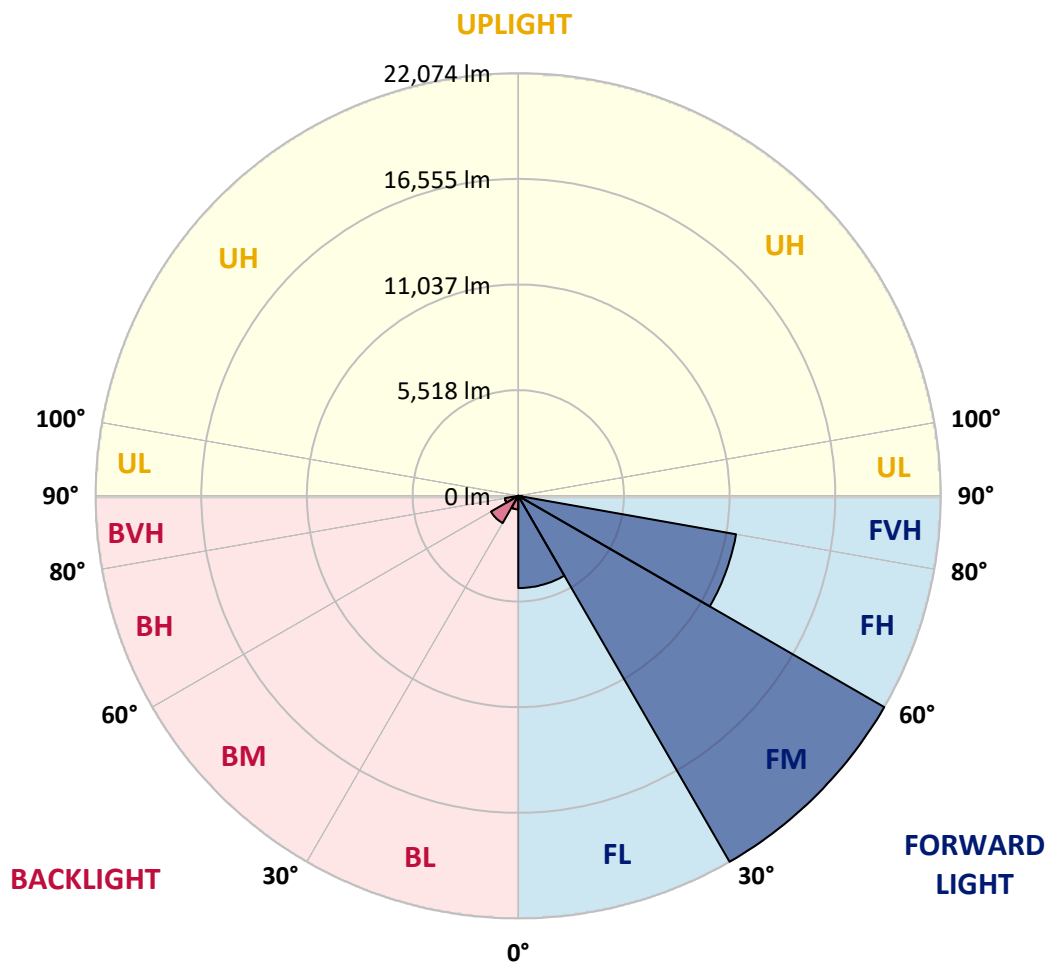
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4815.7	11.5			
FM	(30°-60°)	22073.8	52.9			
FH	(60°-80°)	11550.2	27.7			G4/12000
FVH	(80°-90°)	190.6	0.5			G2/225
BL	(0°-30°)	710.2	1.7	B2/1000		
BM	(30°-60°)	1643.7	3.9	B2/2500		
BH	(60°-80°)	710.2	1.7	B2/1000		G2/1000
BVH	(80°-90°)	3.6	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-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	4808.4	4808.4	4808.4	4808.4	4808.4	4808.4	4808.4	4808.4	4808.4	4808.4	4808.4
2.5°	6657.2	6698.6	6639.0	6525.2	6354.2	6242.9	5971.0	5714.7	5429.8	5339.2	5054.4
5°	8114.9	8151.2	8083.9	7959.6	7731.8	7514.3	7157.0	6620.9	6064.2	5885.5	5380.6
7.5°	9194.8	9215.5	9189.5	9075.7	8858.2	8612.2	8213.3	7579.0	6753.0	6556.2	5782.0
10°	9971.5	10038.8	10031.1	9987.1	9842.0	9642.7	9218.0	8495.6	7524.6	7270.8	6235.1
12.5°	10486.8	10561.9	10605.9	10704.3	10696.6	10569.7	10196.8	9433.0	8293.7	7995.8	6745.2
15°	10636.9	10717.3	10885.6	11113.5	11315.4	11380.2	11118.6	10352.2	9140.3	8759.8	7268.3
17.5°	10551.6	10675.8	10877.8	11237.7	11680.5	11973.1	11944.6	11240.3	9909.4	9474.4	7781.0
20°	10740.6	10859.7	11017.6	11320.6	11835.9	12366.6	12579.0	12089.6	10673.2	10217.5	8319.5
22.5°	11786.7	11766.0	11781.5	11830.7	12138.8	12664.4	13102.1	12861.2	11429.4	10963.2	8889.2
25°	13443.8	13350.6	13192.7	12926.0	12848.3	13102.1	13557.8	13544.9	12226.8	11727.1	9471.8
27.5°	15344.4	15328.9	14958.5	14316.5	13953.9	13855.5	14073.0	14210.3	13016.6	12483.2	10057.0
30°	17164.8	17206.2	16706.4	15991.7	15326.3	14940.5	14743.7	14842.1	13819.3	13298.9	10660.3
32.5°	18749.4	18793.4	18249.6	17413.3	16589.8	16123.8	15709.5	15466.1	14694.5	14127.4	11323.2
35°	20088.1	20132.1	19508.0	18583.7	17705.8	17283.9	16815.1	16149.7	15574.9	15046.6	12061.1
37.5°	21284.3	21271.4	20435.0	19502.9	18640.6	18306.6	18060.6	16991.2	16481.1	15971.0	12879.3
40°	21991.3	22045.6	21331.0	20303.0	19466.6	19223.3	19207.7	18034.7	17527.2	17032.6	13775.3
42.5°	22198.3	22294.2	21776.3	20932.1	20173.5	19909.4	20315.9	19163.7	18744.2	18262.6	14787.7
45°	21825.5	21918.7	21683.1	21097.9	20655.1	20484.2	21268.7	20334.1	20044.1	19567.6	15929.6
47.5°	20738.0	20854.5	20911.4	20787.2	20782.0	20955.5	22123.3	21566.6	21587.3	21100.4	17252.7
50°	18632.9	18829.7	19352.7	19792.9	20473.9	21328.3	22954.5	22902.7	23327.4	22907.8	18977.3
52.5°	14805.8	15085.4	16887.6	18091.7	19622.0	21258.4	23868.5	25046.6	26380.1	25766.4	21408.7
55°	11898.0	11898.0	13363.5	15616.3	17959.6	20797.6	24267.3	26439.7	28459.4	28314.4	23120.2
57.5°	9699.7	9816.2	10750.9	12742.1	15554.2	19699.7	24513.3	27314.9	30134.7	30028.5	24792.9
60°	5986.5	6237.7	8003.6	9968.9	12817.2	17744.7	24357.9	28200.4	32167.3	32252.8	26807.3
62.5°	3371.3	3464.5	4251.7	7172.4	9966.4	15116.5	23169.4	28695.0	34767.0	35129.5	28884.0
65°	2327.8	2374.4	2677.4	4464.0	6908.3	12035.2	20846.8	28386.9	37371.9	38104.7	30644.7
67.5°	1690.8	1714.1	1903.1	2726.6	4098.9	8726.0	17206.2	26833.3	38752.0	39976.7	30981.4
70°	1299.8	1315.4	1452.6	1791.8	2421.0	5385.9	12496.1	23744.2	37752.5	39215.5	29256.9
72.5°	1056.5	1071.9	1178.1	1325.7	1605.4	3184.9	7573.8	19282.8	33340.3	34919.8	24906.8
75°	890.7	911.4	1007.3	1103.1	1258.4	2045.6	3552.5	13428.3	25072.5	26108.3	17320.0
77.5°	494.6	455.7	818.3	914.0	1061.6	1294.7	1662.3	7902.6	14042.0	14329.4	7685.1
80°	308.1	318.5	650.0	735.3	815.6	652.5	761.3	3042.5	4867.9	4624.6	1488.9
82.5°	18.1	41.4	499.8	530.8	559.3	279.6	287.4	1033.1	1173.0	1077.2	264.1
85°	0.0	0.0	227.9	183.9	194.2	80.3	82.8	240.8	158.0	170.9	51.8
87.5°	0.0	0.0	0.0	5.2	0.0	7.8	15.6	20.7	7.8	10.4	18.1
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4808.4	4808.4	4808.4	4808.4	4808.4	4808.4	4808.4	4808.4	4808.4	4808.4	4808.4
2.5°	4873.2	4691.8	4324.2	3964.3	3671.7	3399.8	3205.6	3021.8	2928.5	2923.4	2918.2
5°	5020.8	4640.1	3904.7	3254.8	2731.7	2312.3	2040.4	1846.2	1747.8	1714.1	1709.0
7.5°	5227.9	4655.7	3537.1	2633.3	2017.1	1657.2	1501.8	1439.7	1418.9	1395.6	1390.5
10°	5489.4	4691.8	3208.1	2120.6	1589.9	1408.6	1346.4	1320.6	1305.0	1289.4	1284.3
12.5°	5782.0	4725.6	2881.9	1760.7	1398.2	1305.0	1261.0	1229.9	1209.2	1191.0	1185.9
15°	6066.8	4746.3	2542.7	1509.6	1299.8	1224.8	1178.1	1144.5	1116.0	1095.3	1092.6
17.5°	6349.1	4774.8	2224.2	1359.4	1219.5	1144.5	1097.9	1056.5	1033.1	1009.8	1007.3
20°	6662.4	4769.5	1923.9	1253.3	1139.3	1064.3	1015.1	976.2	952.8	927.0	924.3
22.5°	6952.4	4743.7	1659.8	1162.7	1056.5	983.9	929.6	890.7	867.5	846.8	844.1
25°	7286.4	4723.0	1439.7	1079.7	978.8	906.3	846.8	810.5	784.5	766.4	763.8
27.5°	7607.4	4691.8	1279.1	1004.7	903.6	833.7	776.8	735.3	712.1	699.2	699.2
30°	7923.4	4684.1	1219.5	932.1	836.4	766.4	709.5	670.7	652.5	647.3	644.7
32.5°	8304.0	4704.9	1245.5	906.3	774.2	704.3	650.0	621.5	603.3	603.3	603.3
35°	8710.6	4699.6	1284.3	929.6	732.8	642.2	600.8	582.6	564.5	564.5	564.5
37.5°	9220.6	4707.4	1315.4	968.4	717.3	590.4	567.0	543.8	533.4	533.4	533.4
40°	9981.9	4963.8	1299.8	1002.0	712.1	554.1	507.5	499.8	492.0	492.0	492.0
42.5°	10914.1	5520.4	1320.6	1004.7	709.5	528.2	466.1	481.6	463.5	460.9	458.3
45°	11934.3	6129.0	1452.6	950.3	706.8	515.3	445.4	463.5	435.0	435.0	435.0
47.5°	12946.7	6732.3	1587.2	872.6	699.2	512.7	427.2	416.9	409.1	411.7	411.7
50°	14342.3	7224.2	1639.1	766.4	681.0	507.5	393.6	396.2	391.0	396.2	396.2
52.5°	15862.3	7327.8	1576.9	647.3	629.2	492.0	370.2	380.6	378.0	383.2	383.2
55°	16810.0	7216.5	1302.5	538.5	549.0	429.8	347.0	367.7	367.7	367.7	367.7
57.5°	17788.8	6742.7	924.3	437.6	455.7	352.2	326.3	354.8	352.2	349.5	349.5
60°	18493.0	5976.2	608.5	359.9	362.5	290.0	303.0	334.0	331.5	318.5	318.5
62.5°	19018.7	5129.5	391.0	305.6	277.1	261.5	277.1	303.0	292.6	264.1	258.9
65°	18959.1	3956.5	300.3	261.5	227.9	227.9	240.8	264.1	233.1	186.4	181.2
67.5°	17853.4	2677.4	248.6	220.1	191.6	189.0	199.4	220.1	199.4	158.0	152.7
70°	15877.8	1750.4	199.4	170.9	152.7	139.8	160.5	189.0	168.3	126.9	121.7
72.5°	12887.1	1066.8	150.2	124.3	111.3	90.6	126.9	155.4	134.7	93.2	88.0
75°	8337.7	543.8	103.5	80.3	59.6	54.3	93.2	116.5	93.2	57.0	49.2
77.5°	3190.1	227.9	57.0	36.3	31.1	25.9	51.8	69.9	38.8	12.9	10.4
80°	613.7	95.8	28.5	18.1	15.6	10.4	7.8	5.2	0.0	0.0	0.0
82.5°	106.2	31.1	10.4	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	36.3	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.9	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)