

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: P960383

Luminaire Tested: **NAV-SB1C-740-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960383
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-SB1C-740-U-T2R-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 4000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II ROADWAY
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6878.8 lumens
Efficiency: N/A
Efficacy: 126.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

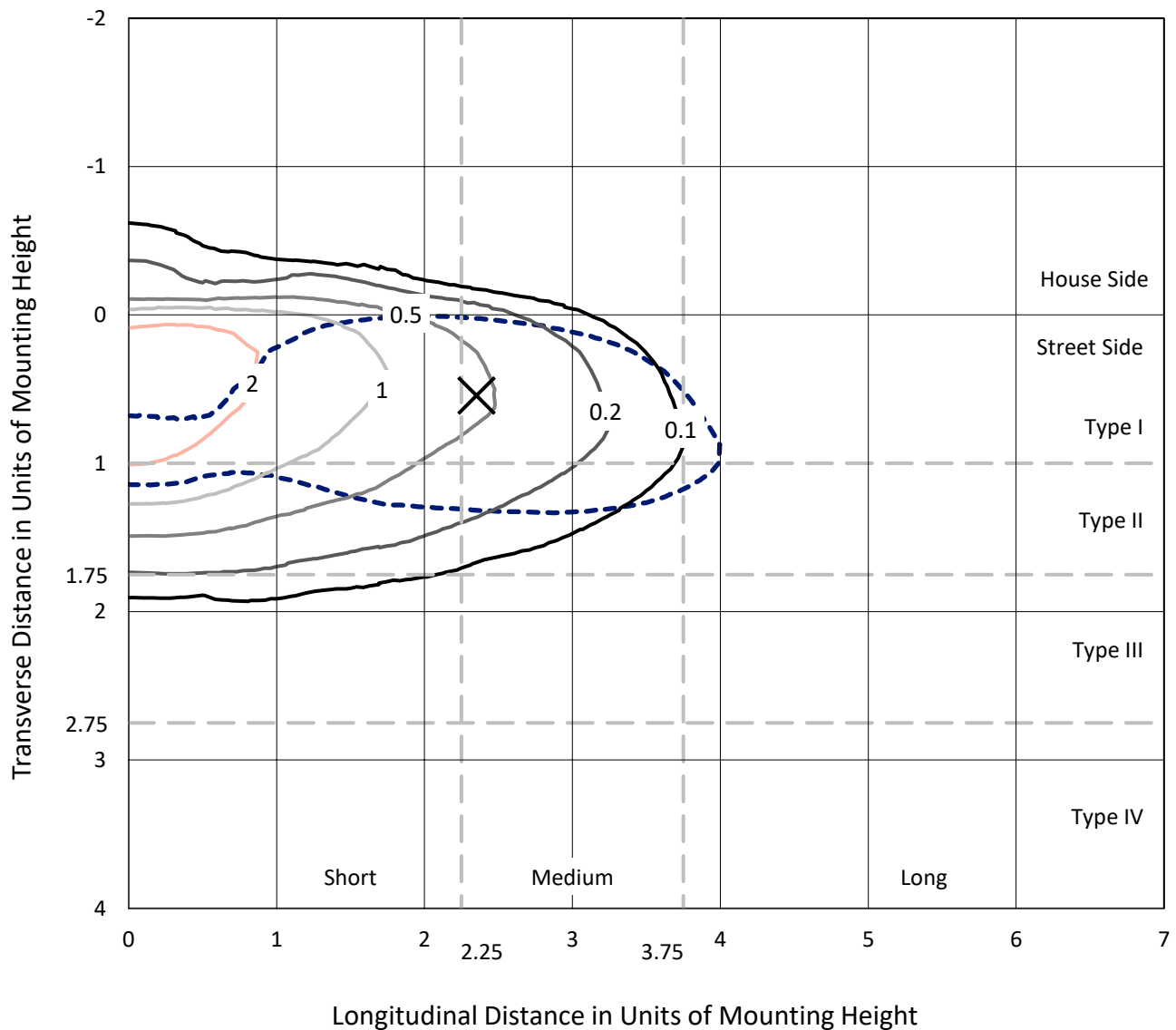
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

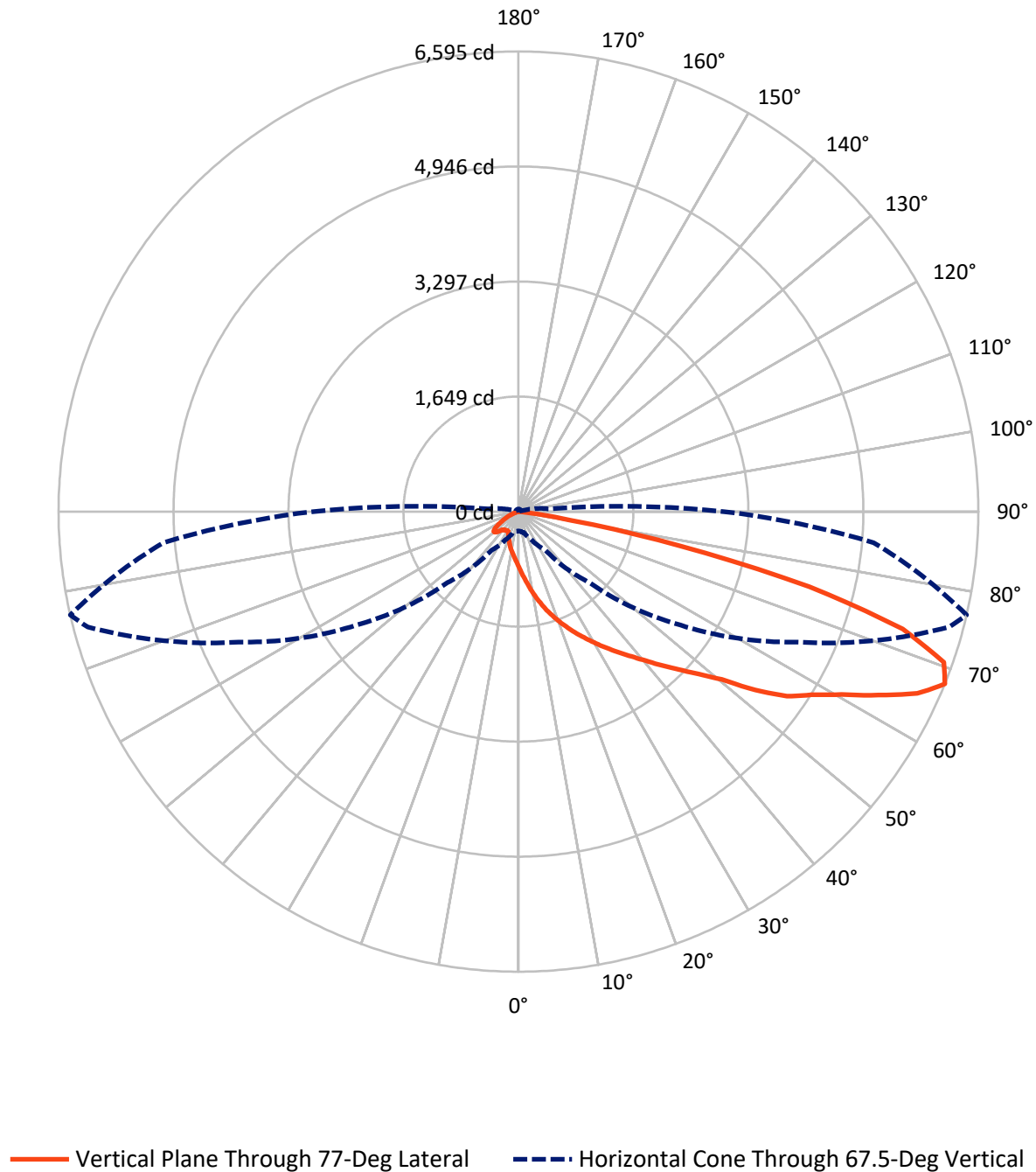
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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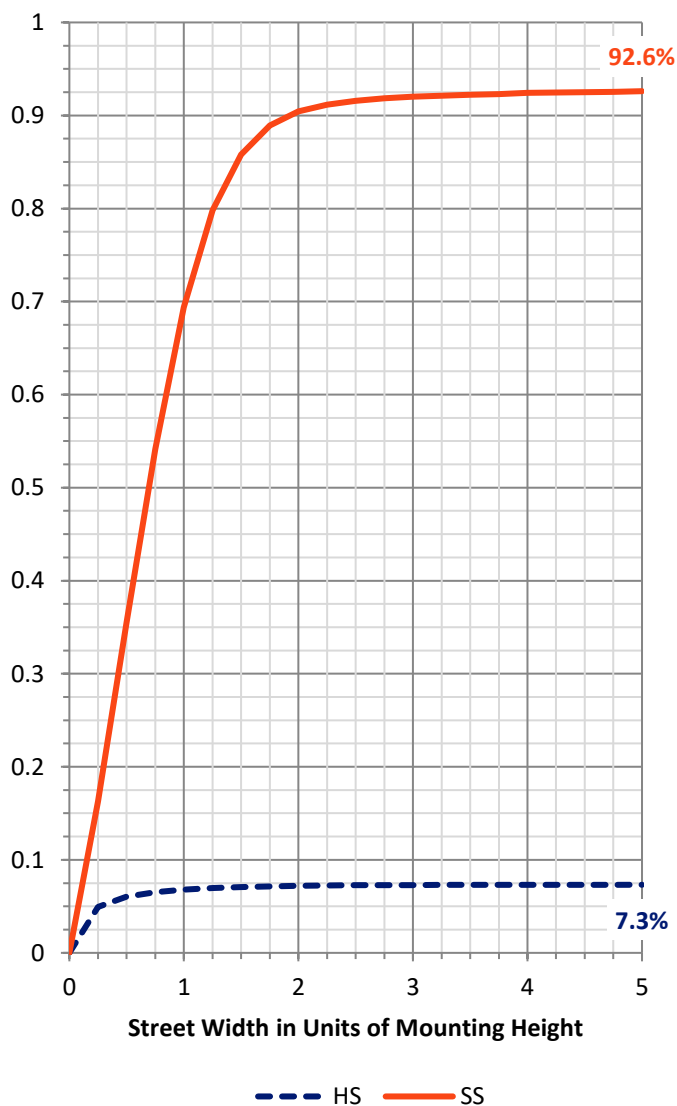
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	506.1	0.0	506.1
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	6372.7	0.0	6372.7
	% Fixture	92.6	0.0	92.6
Total	Lumens	6878.8	0.0	6878.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.0	1.2
10°-20°	283.5	4.1
20°-30°	547.1	8.0
30°-40°	949.8	13.8
40°-50°	1379.1	20.0
50°-60°	1583.7	23.0
60°-70°	1374.9	20.0
70°-80°	647.6	9.4
80°-90°	32.0	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°	6878.8	100.0
0°-180°	6878.8	100.0

Coefficient of Utilization



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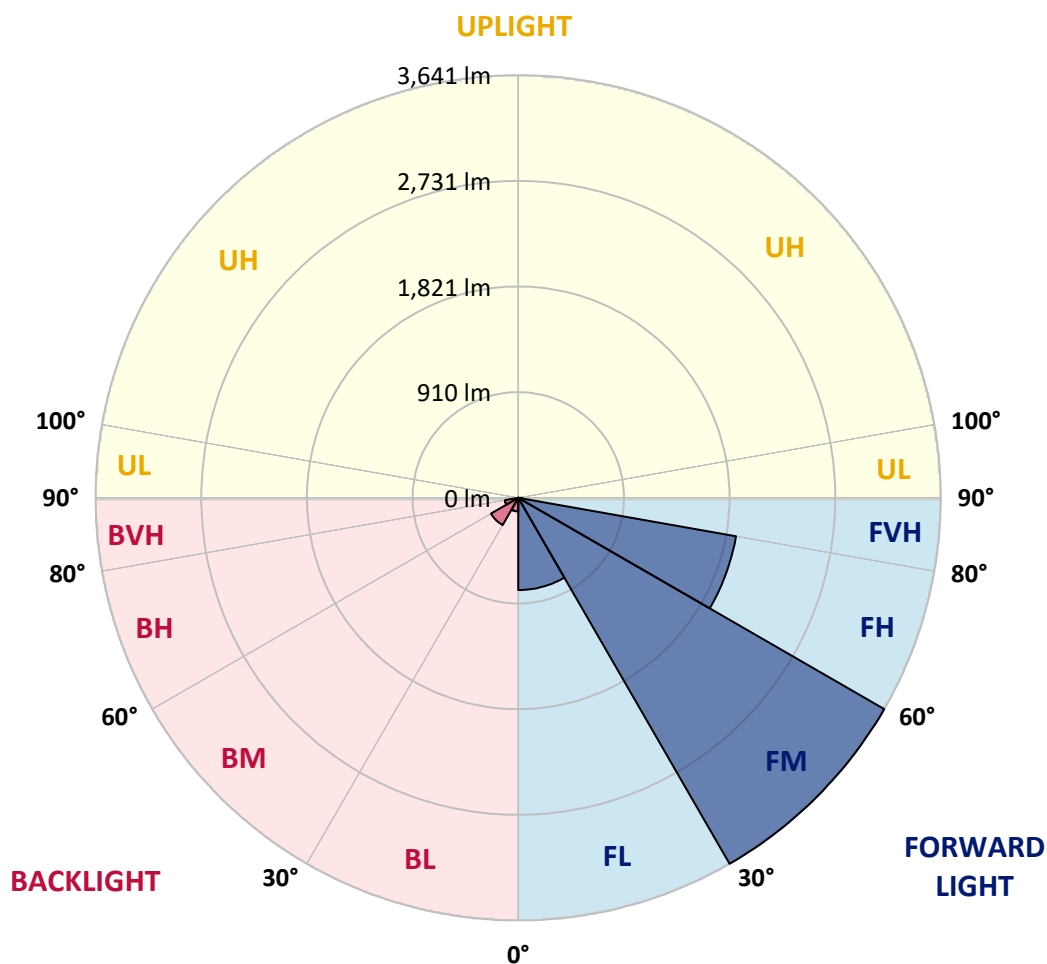
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	794.4	11.5			
FM	(30°-60°)	3641.4	52.9			
FH	(60°-80°)	1905.4	27.7			G2/5000
FVH	(80°-90°)	31.4	0.5			G1/100
BL	(0°-30°)	117.2	1.7	B1/500		
BM	(30°-60°)	271.2	3.9	B1/1000		
BH	(60°-80°)	117.2	1.7	B1/500		G1/500
BVH	(80°-90°)	0.6	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	793.2	793.2	793.2	793.2	793.2	793.2	793.2	793.2	793.2	793.2	793.2
2.5°	1098.2	1105.1	1095.2	1076.5	1048.3	1029.8	985.0	942.7	895.7	880.8	833.8
5°	1338.6	1344.7	1333.5	1313.0	1275.5	1239.6	1180.7	1092.2	1000.4	970.9	887.6
7.5°	1516.8	1520.3	1516.0	1497.2	1461.3	1420.8	1354.9	1250.3	1114.0	1081.6	953.9
10°	1644.9	1656.1	1654.8	1647.5	1623.6	1590.7	1520.7	1401.5	1241.3	1199.5	1028.6
12.5°	1730.0	1742.4	1749.6	1765.9	1764.5	1743.6	1682.1	1556.2	1368.2	1319.1	1112.7
15°	1754.7	1768.0	1795.8	1833.3	1866.6	1877.4	1834.2	1707.8	1507.9	1445.0	1199.0
17.5°	1740.7	1761.2	1794.5	1853.8	1926.9	1975.2	1970.5	1854.2	1634.7	1562.9	1283.6
20°	1771.8	1791.5	1817.5	1867.5	1952.5	2040.1	2075.1	1994.3	1760.7	1685.5	1372.5
22.5°	1944.4	1940.9	1943.5	1951.7	2002.5	2089.3	2161.4	2121.6	1885.5	1808.6	1466.5
25°	2217.8	2202.4	2176.4	2132.3	2119.5	2161.4	2236.5	2234.4	2017.0	1934.6	1562.5
27.5°	2531.3	2528.8	2467.7	2361.7	2301.9	2285.6	2321.6	2344.2	2147.3	2059.3	1659.1
30°	2831.6	2838.4	2756.0	2638.1	2528.4	2464.7	2432.2	2448.4	2279.7	2193.9	1758.6
32.5°	3093.0	3100.3	3010.5	2872.6	2736.7	2659.9	2591.5	2551.4	2424.1	2330.5	1868.0
35°	3313.8	3321.1	3218.2	3065.7	2920.8	2851.2	2774.0	2664.2	2569.4	2482.1	1989.7
37.5°	3511.2	3509.1	3371.1	3217.3	3075.1	3020.0	2979.4	2803.0	2718.8	2634.7	2124.6
40°	3627.8	3636.8	3518.9	3349.3	3211.3	3171.1	3168.6	2975.2	2891.4	2809.8	2272.4
42.5°	3662.0	3677.8	3592.3	3453.1	3328.0	3284.4	3351.4	3161.4	3092.1	3012.7	2439.5
45°	3600.5	3615.9	3576.9	3480.5	3407.4	3379.2	3508.7	3354.4	3306.5	3228.0	2627.9
47.5°	3421.0	3440.3	3449.7	3429.1	3428.3	3456.9	3649.6	3557.8	3561.2	3480.9	2846.1
50°	3073.8	3106.3	3192.6	3265.1	3377.5	3518.4	3786.8	3778.2	3848.3	3779.1	3130.7
52.5°	2442.5	2488.6	2785.8	2984.5	3237.0	3506.9	3937.5	4131.9	4351.8	4250.6	3531.7
55°	1962.8	1962.8	2204.6	2576.1	2962.8	3430.9	4003.2	4361.7	4694.8	4670.9	3814.0
57.5°	1600.1	1619.3	1773.6	2102.1	2565.9	3249.8	4043.8	4506.0	4971.2	4953.7	4090.0
60°	987.6	1029.0	1320.3	1644.5	2114.4	2927.3	4018.2	4652.2	5306.5	5320.7	4422.4
62.5°	556.2	571.5	701.4	1183.3	1644.1	2493.7	3822.1	4733.8	5735.4	5795.1	4764.9
65°	384.0	391.7	441.7	736.5	1139.6	1985.4	3439.0	4682.9	6165.1	6286.0	5055.4
67.5°	278.9	282.8	314.0	449.8	676.2	1439.5	2838.4	4426.6	6392.8	6594.8	5110.9
70°	214.4	217.0	239.6	295.6	399.3	888.5	2061.5	3917.0	6227.9	6469.3	4826.4
72.5°	174.2	176.8	194.3	218.7	264.9	525.4	1249.4	3181.0	5500.0	5760.6	4108.8
75°	147.0	150.4	166.2	181.9	207.6	337.4	586.1	2215.2	4136.1	4306.9	2857.2
77.5°	81.6	75.1	135.0	150.8	175.2	213.6	274.2	1303.7	2316.5	2363.9	1267.8
80°	50.8	52.6	107.2	121.4	134.6	107.6	125.6	501.9	803.1	762.9	245.6
82.5°	3.0	6.9	82.4	87.5	92.2	46.1	47.5	170.5	193.5	177.7	43.6
85°	0.0	0.0	37.6	30.3	32.1	13.2	13.6	39.8	26.0	28.2	8.5
87.5°	0.0	0.0	0.0	0.8	0.0	1.3	2.6	3.4	1.3	1.7	3.0
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°	793.2	793.2	793.2	793.2	793.2	793.2	793.2	793.2	793.2	793.2	793.2
2.5°	803.9	774.0	713.3	653.9	605.7	560.9	528.8	498.5	483.1	482.3	481.4
5°	828.2	765.5	644.1	536.9	450.7	381.4	336.6	304.5	288.3	282.8	281.9
7.5°	862.4	768.0	583.5	434.4	332.7	273.4	247.7	237.5	234.1	230.2	229.4
10°	905.6	774.0	529.2	349.8	262.3	232.4	222.1	217.8	215.2	212.7	211.9
12.5°	953.9	779.5	475.4	290.5	230.6	215.2	208.0	202.8	199.5	196.5	195.7
15°	1000.8	783.0	419.4	249.1	214.4	202.0	194.3	188.8	184.1	180.7	180.3
17.5°	1047.3	787.7	367.0	224.3	201.2	188.8	181.1	174.2	170.5	166.6	166.2
20°	1099.1	786.8	317.3	206.7	188.0	175.6	167.5	161.0	157.2	152.9	152.5
22.5°	1146.9	782.6	273.8	191.8	174.2	162.4	153.3	147.0	143.1	139.7	139.3
25°	1202.0	779.1	237.5	178.1	161.4	149.5	139.7	133.7	129.5	126.5	126.0
27.5°	1255.0	774.0	211.0	165.7	149.0	137.6	128.1	121.4	117.5	115.3	115.3
30°	1307.1	772.7	201.2	153.8	138.0	126.5	117.1	110.6	107.6	106.8	106.4
32.5°	1369.9	776.1	205.4	149.5	127.7	116.2	107.2	102.5	99.5	99.5	99.5
35°	1436.9	775.3	211.9	153.3	120.8	106.0	99.1	96.1	93.1	93.1	93.1
37.5°	1521.1	776.5	217.0	159.8	118.3	97.4	93.6	89.7	87.9	87.9	87.9
40°	1646.7	818.9	214.4	165.3	117.5	91.4	83.7	82.4	81.2	81.2	81.2
42.5°	1800.4	910.7	217.8	165.7	117.1	87.1	76.9	79.4	76.5	76.1	75.6
45°	1968.7	1011.1	239.6	156.7	116.6	85.0	73.5	76.5	71.8	71.8	71.8
47.5°	2135.8	1110.6	261.9	143.9	115.3	84.6	70.5	68.8	67.4	68.0	68.0
50°	2366.0	1191.8	270.4	126.5	112.3	83.7	64.9	65.4	64.5	65.4	65.4
52.5°	2616.7	1208.9	260.1	106.8	103.8	81.2	61.1	62.8	62.3	63.2	63.2
55°	2773.0	1190.4	214.8	88.9	90.5	70.9	57.2	60.7	60.7	60.7	60.7
57.5°	2934.6	1112.3	152.5	72.2	75.1	58.1	53.8	58.5	58.1	57.7	57.7
60°	3050.7	985.8	100.3	59.3	59.8	47.9	50.0	55.1	54.6	52.6	52.6
62.5°	3137.4	846.2	64.5	50.4	45.7	43.2	45.7	50.0	48.3	43.6	42.7
65°	3127.6	652.7	49.5	43.2	37.6	37.6	39.8	43.6	38.4	30.7	29.9
67.5°	2945.2	441.7	41.0	36.3	31.6	31.2	32.9	36.3	32.9	26.0	25.2
70°	2619.3	288.7	32.9	28.2	25.2	23.1	26.4	31.2	27.8	20.9	20.1
72.5°	2126.0	176.0	24.8	20.5	18.3	15.0	20.9	25.6	22.2	15.4	14.6
75°	1375.4	89.7	17.1	13.2	9.8	9.0	15.4	19.3	15.4	9.4	8.1
77.5°	526.2	37.6	9.4	5.9	5.1	4.3	8.5	11.6	6.5	2.2	1.7
80°	101.3	15.8	4.7	3.0	2.6	1.7	1.3	0.8	0.0	0.0	0.0
82.5°	17.5	5.1	1.7	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.9	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.2	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)