

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: P960466

Luminaire Tested: **NAV-SB1C-827-U-SL3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960466
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1C-827-U-SL3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5377.1 lumens
Efficiency: N/A
Efficacy: 98.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - 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



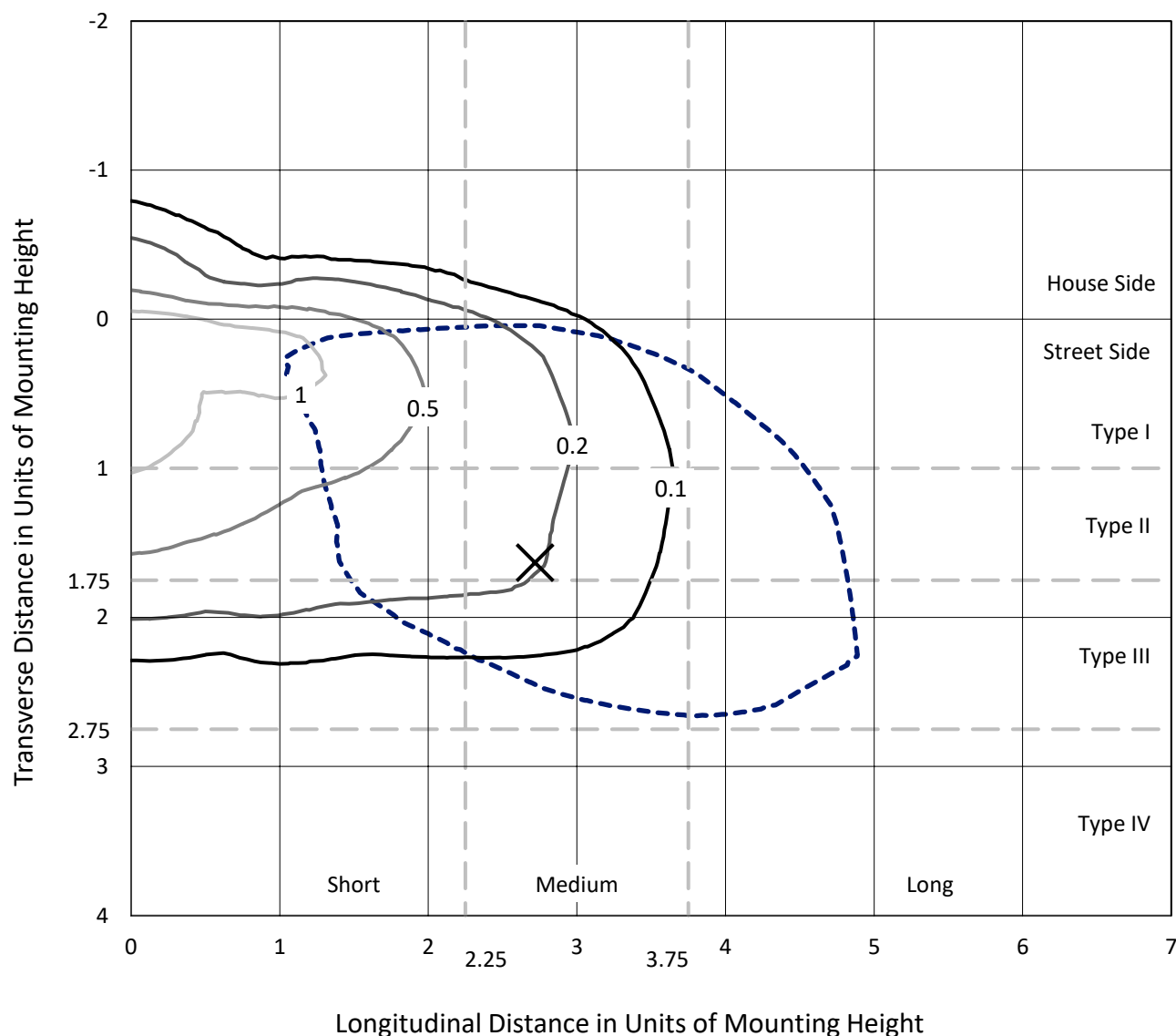
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

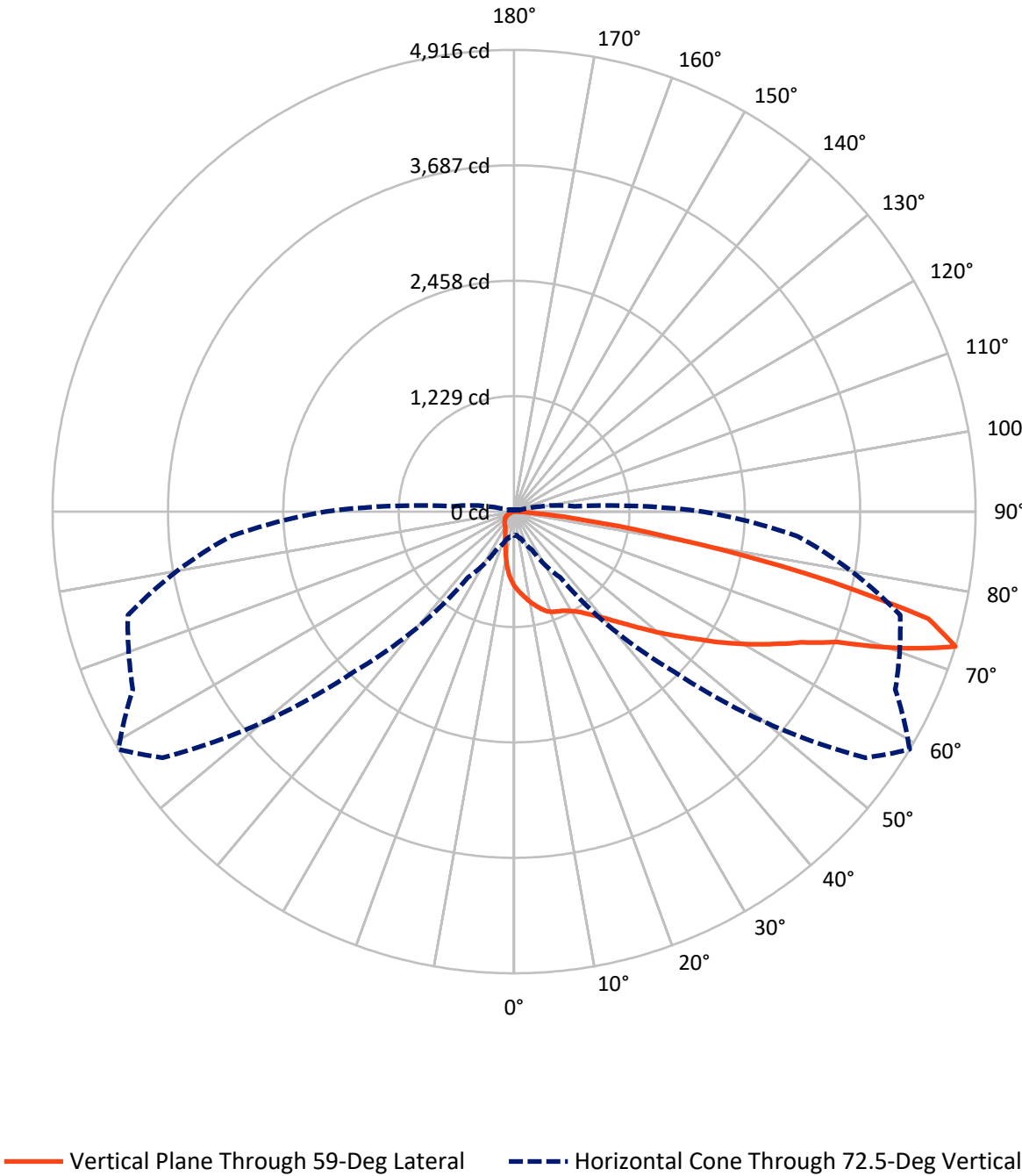
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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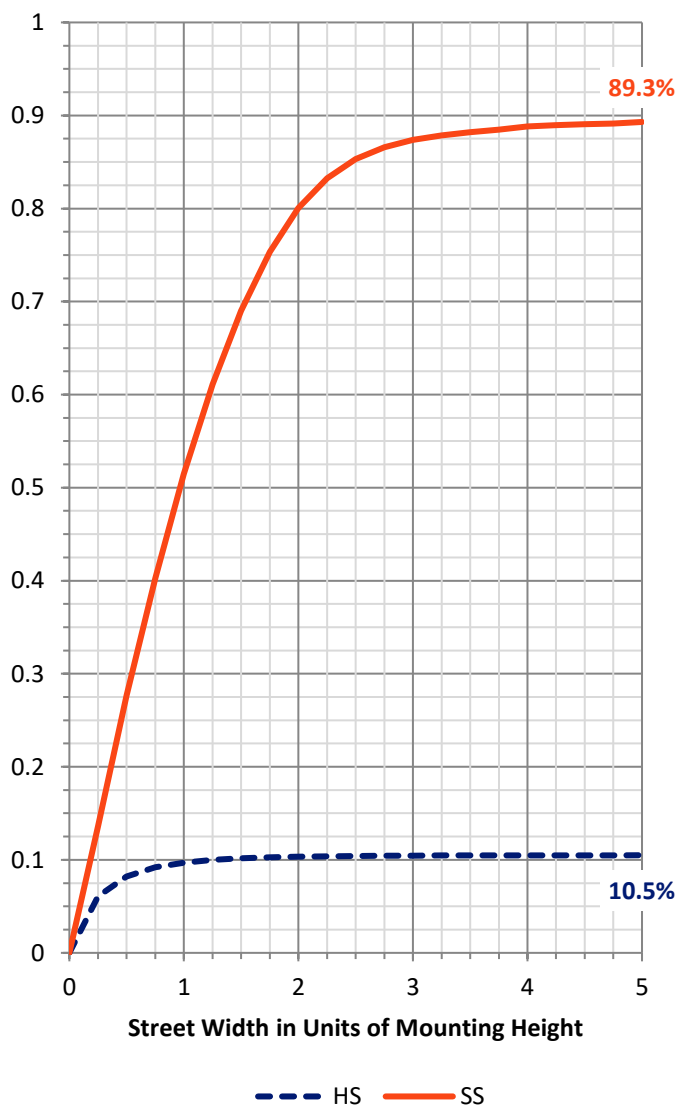
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	567.9	0.0	567.9
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	4809.2	0.0	4809.2
	% Fixture	89.4	0.0	89.4
Total	Lumens	5377.1	0.0	5377.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.9	1.3
10°-20°	191.1	3.6
20°-30°	302.8	5.6
30°-40°	486.0	9.0
40°-50°	776.2	14.4
50°-60°	1123.9	20.9
60°-70°	1333.8	24.8
70°-80°	990.1	18.4
80°-90°	101.2	1.9
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°	5377.1	100.0
0°-180°	5377.1	100.0

Coefficient of Utilization



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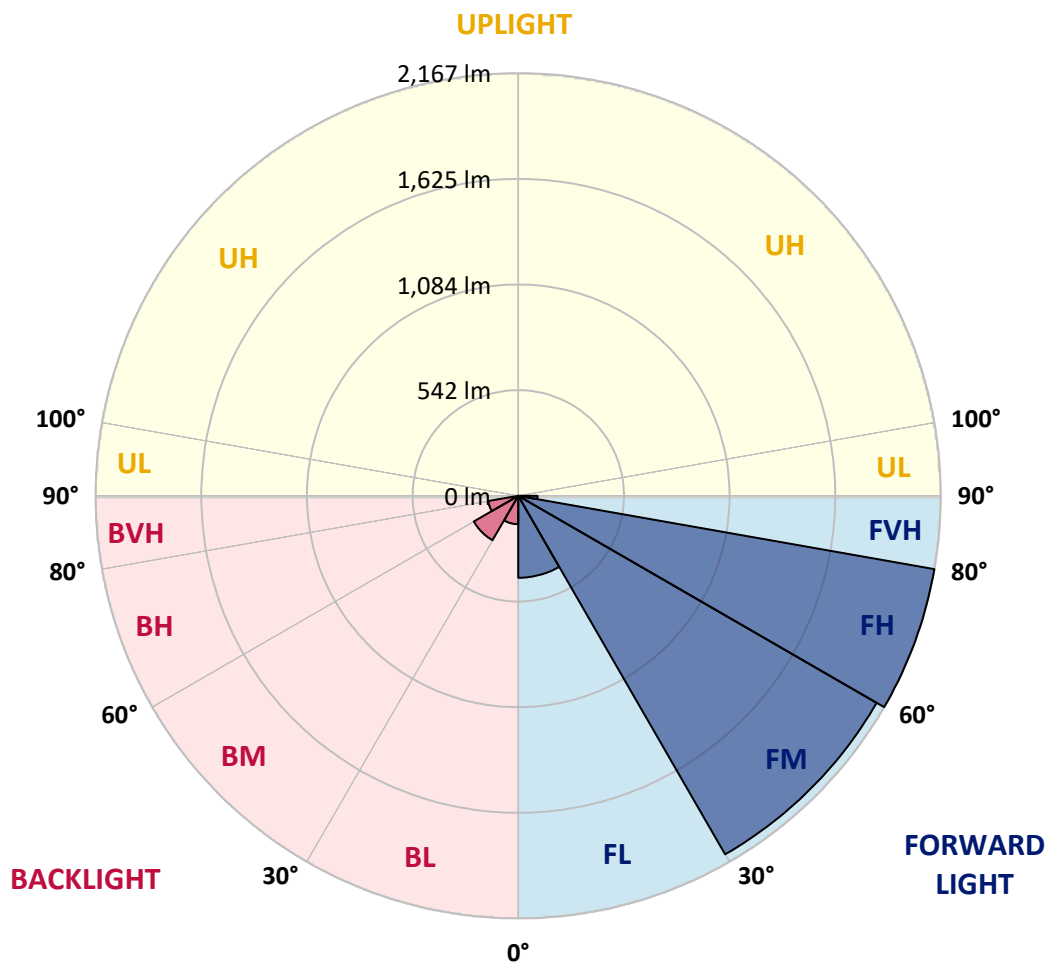
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	420.4	7.8			
FM	(30°-60°)	2122.8	39.5			
FH	(60°-80°)	2167.3	40.3			G2/5000
FVH	(80°-90°)	98.7	1.8			G1/100
BL	(0°-30°)	145.5	2.7	B1/500		
BM	(30°-60°)	263.3	4.9	B1/1000		
BH	(60°-80°)	156.6	2.9	B1/500		G1/500
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: B1-U0-G2

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	795.2	795.2	795.2	795.2	795.2	795.2	795.2	795.2	795.2	795.2	795.2
2.5°	882.2	877.3	878.0	869.6	863.6	857.3	845.0	843.3	834.5	819.0	803.2
5°	959.1	955.9	953.1	943.6	931.3	915.9	895.2	887.9	871.7	845.0	814.2
7.5°	1015.3	1011.4	1012.8	1003.4	993.5	976.3	947.8	934.2	912.8	872.1	825.3
10°	1026.1	1024.1	1033.2	1036.7	1036.7	1025.8	998.0	984.4	953.1	901.2	836.9
12.5°	965.0	965.4	988.2	1015.6	1051.4	1061.6	1043.0	1028.3	997.3	932.0	851.7
15°	893.8	894.1	916.2	951.4	1010.0	1068.7	1083.3	1073.9	1041.9	965.4	868.9
17.5°	851.0	849.2	864.0	892.8	954.2	1036.7	1107.9	1114.3	1088.2	1002.2	887.9
20°	845.0	841.8	849.5	864.0	907.8	996.7	1110.8	1140.6	1136.0	1044.1	909.6
22.5°	881.5	876.6	872.4	873.1	891.6	963.3	1103.7	1155.4	1185.2	1094.3	939.4
25°	953.9	946.1	932.4	914.9	911.0	956.3	1098.8	1171.5	1230.8	1158.5	978.8
27.5°	1042.3	1031.5	1005.1	978.8	956.3	975.9	1109.0	1197.1	1282.4	1233.3	1024.4
30°	1139.5	1126.2	1099.8	1050.0	1014.2	1019.9	1133.2	1230.8	1348.4	1317.8	1081.6
32.5°	1282.4	1251.5	1205.5	1129.3	1082.0	1067.2	1169.7	1273.7	1430.2	1430.6	1164.5
35°	1405.0	1387.7	1341.4	1246.6	1149.3	1130.1	1217.8	1334.0	1543.6	1579.7	1280.3
37.5°	1485.3	1461.9	1421.1	1349.8	1254.0	1194.6	1282.1	1408.1	1663.7	1749.7	1423.2
40°	1575.2	1552.1	1497.9	1430.9	1375.4	1305.6	1363.1	1493.4	1795.3	1924.1	1586.4
42.5°	1683.7	1653.5	1589.6	1517.3	1459.4	1451.6	1469.2	1599.8	1930.5	2113.8	1756.3
45°	1811.1	1782.7	1709.3	1618.1	1567.1	1553.5	1602.6	1723.7	2081.1	2321.5	1928.0
47.5°	1930.5	1897.5	1818.5	1735.3	1678.7	1635.6	1744.4	1870.1	2251.7	2538.8	2090.2
50°	2032.0	1998.2	1925.9	1837.1	1798.9	1742.3	1883.7	2033.3	2420.9	2759.7	2238.4
52.5°	2101.5	2071.6	1986.7	1926.3	1900.2	1871.9	2047.0	2206.4	2589.5	2961.9	2384.8
55°	2085.7	2059.0	1984.2	1980.0	1978.2	2008.1	2242.2	2402.7	2761.0	3153.2	2530.4
57.5°	2035.4	2005.2	1911.8	1976.1	2038.2	2129.5	2453.5	2634.7	2949.2	3333.7	2670.8
60°	1887.6	1877.1	1820.3	1968.7	2063.5	2248.5	2695.1	2867.8	3152.9	3492.4	2795.5
62.5°	1574.8	1584.0	1583.6	1984.2	2109.1	2384.0	2914.5	3103.7	3352.0	3645.1	2906.4
65°	1179.3	1210.8	1251.2	1845.2	2170.2	2625.9	3176.8	3359.6	3554.2	3822.7	3019.1
67.5°	792.3	817.6	845.0	1513.8	1988.4	2880.1	3612.4	3710.4	3796.4	4019.6	3145.8
70°	453.6	461.7	499.9	945.4	1532.7	2809.9	4321.9	4357.4	4157.6	4262.3	3238.2
72.5°	254.2	251.3	301.9	448.6	856.6	2406.2	4570.5	4916.2	4480.9	4258.4	3032.2
75°	169.9	170.3	207.9	283.0	333.8	1684.4	3938.6	4558.5	4287.2	3776.0	2477.4
77.5°	115.8	119.7	152.7	218.7	154.5	821.8	2605.5	3193.3	3471.0	2915.9	1710.4
80°	50.2	50.5	100.8	156.9	104.2	261.6	1350.8	1710.7	2176.9	1637.3	677.5
82.5°	25.9	29.5	64.3	101.5	65.6	91.6	638.3	747.4	913.5	480.6	139.0
85°	9.1	10.9	39.7	49.8	33.0	32.7	222.2	226.4	193.4	72.4	38.2
87.5°	0.0	1.7	15.5	12.3	4.2	3.9	26.3	22.1	17.5	10.1	12.6
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°	795.2	795.2	795.2	795.2	795.2	795.2	795.2	795.2	795.2	795.2	795.2
2.5°	795.8	786.4	770.9	751.9	729.9	717.9	700.7	690.2	680.7	681.0	688.8
5°	796.9	781.2	741.8	700.0	653.6	619.6	581.7	555.0	534.6	529.7	537.1
7.5°	800.1	773.4	709.1	639.6	562.4	505.2	452.8	419.8	401.3	396.4	401.3
10°	804.3	765.0	672.3	565.9	470.1	401.3	357.7	336.7	328.2	322.0	325.7
12.5°	807.8	756.1	626.0	489.7	388.0	334.3	301.2	283.6	276.2	271.7	274.2
15°	813.7	744.6	575.7	418.8	332.4	288.5	257.4	244.4	242.2	242.9	244.0
17.5°	819.7	733.4	519.6	363.4	291.7	248.6	229.6	227.4	230.3	233.1	234.1
20°	826.4	717.2	462.7	321.5	254.2	220.8	215.9	217.3	218.7	223.7	225.0
22.5°	836.2	696.9	412.9	286.1	222.9	207.5	205.0	206.0	207.2	212.1	213.4
25°	850.2	675.1	372.5	253.5	203.3	196.6	194.1	194.1	195.6	200.1	201.8
27.5°	865.0	644.2	339.8	223.2	191.7	184.7	180.4	180.4	182.2	187.5	189.5
30°	881.5	616.1	314.2	200.8	181.8	172.7	167.1	165.7	167.8	174.5	176.2
32.5°	911.3	597.9	295.9	190.2	173.1	161.8	154.2	150.3	152.3	160.1	162.2
35°	956.6	593.7	283.3	185.0	164.6	152.0	141.1	135.2	136.9	145.0	147.4
37.5°	1009.6	602.4	271.0	177.9	156.6	142.6	128.1	120.4	123.2	130.6	132.7
40°	1085.8	638.9	261.6	172.7	148.5	131.3	115.1	107.4	112.0	118.3	119.3
42.5°	1177.8	703.9	259.1	167.8	138.7	119.3	103.2	97.6	101.1	107.1	108.1
45°	1291.9	786.7	270.3	161.4	127.8	107.7	93.7	90.6	91.6	97.6	100.4
47.5°	1414.4	871.7	301.2	155.9	118.3	98.3	86.4	83.5	82.8	88.5	91.9
50°	1538.3	947.2	337.7	151.7	111.6	90.6	80.8	77.2	75.4	79.0	80.4
52.5°	1660.9	1007.2	361.6	144.6	105.0	82.8	75.8	70.5	67.4	69.2	70.5
55°	1785.1	1059.8	363.0	134.1	98.6	77.9	70.9	65.0	61.1	61.1	61.8
57.5°	1901.4	1106.2	342.2	120.0	89.9	73.4	64.3	59.3	55.1	53.7	54.0
60°	2004.2	1140.6	307.9	104.2	82.1	67.4	57.6	53.7	48.5	45.6	44.9
62.5°	2095.8	1157.4	260.9	88.1	72.7	60.4	51.2	47.0	40.0	36.5	36.2
65°	2173.4	1140.2	211.7	73.0	64.6	52.7	43.9	39.7	32.0	27.8	27.8
67.5°	2250.3	1061.6	160.1	61.4	56.2	44.3	36.2	32.3	26.6	23.2	23.2
70°	2260.1	896.3	112.0	51.6	46.7	34.0	29.1	26.6	21.7	18.7	18.2
72.5°	2012.0	644.9	68.1	42.1	36.5	24.2	23.2	21.0	16.2	14.0	13.7
75°	1608.2	395.3	40.0	31.6	24.2	17.2	17.2	15.1	10.9	9.1	9.1
77.5°	1111.4	206.7	23.5	20.4	14.3	10.1	11.3	9.1	5.2	4.2	4.2
80°	445.2	78.6	12.6	9.4	6.7	4.6	3.9	2.2	1.0	0.7	1.0
82.5°	88.9	20.7	4.2	2.5	2.5	1.0	0.0	0.0	0.0	0.0	0.0
85°	22.9	4.6	1.0	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.0	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)