

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: P960451

Luminaire Tested: **NAV-SB1C-760-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960451
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1C-760-U-T3R-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 5700K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE III ROADWAY
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6764 lumens
Efficiency: N/A
Efficacy: 124.3 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



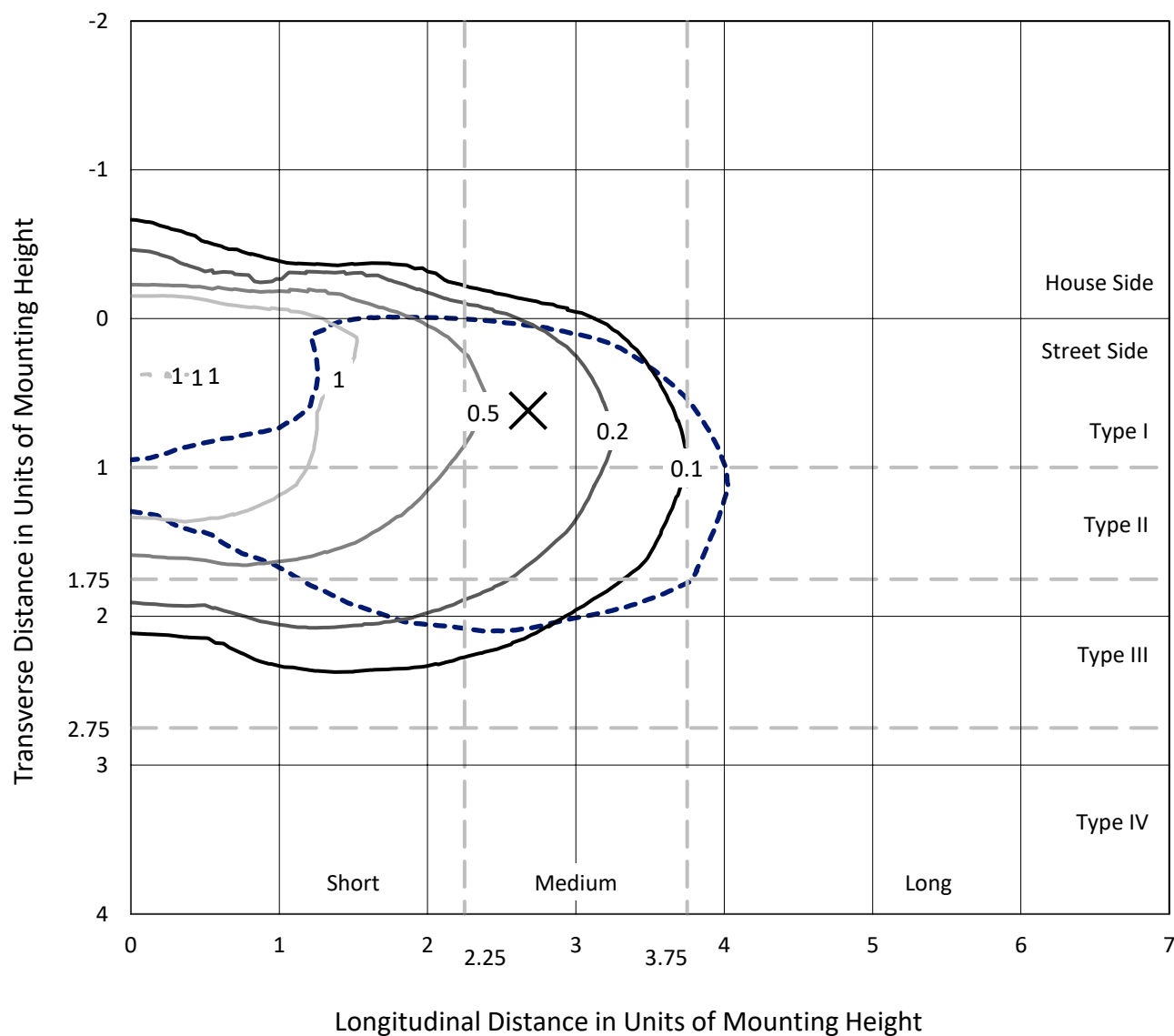
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

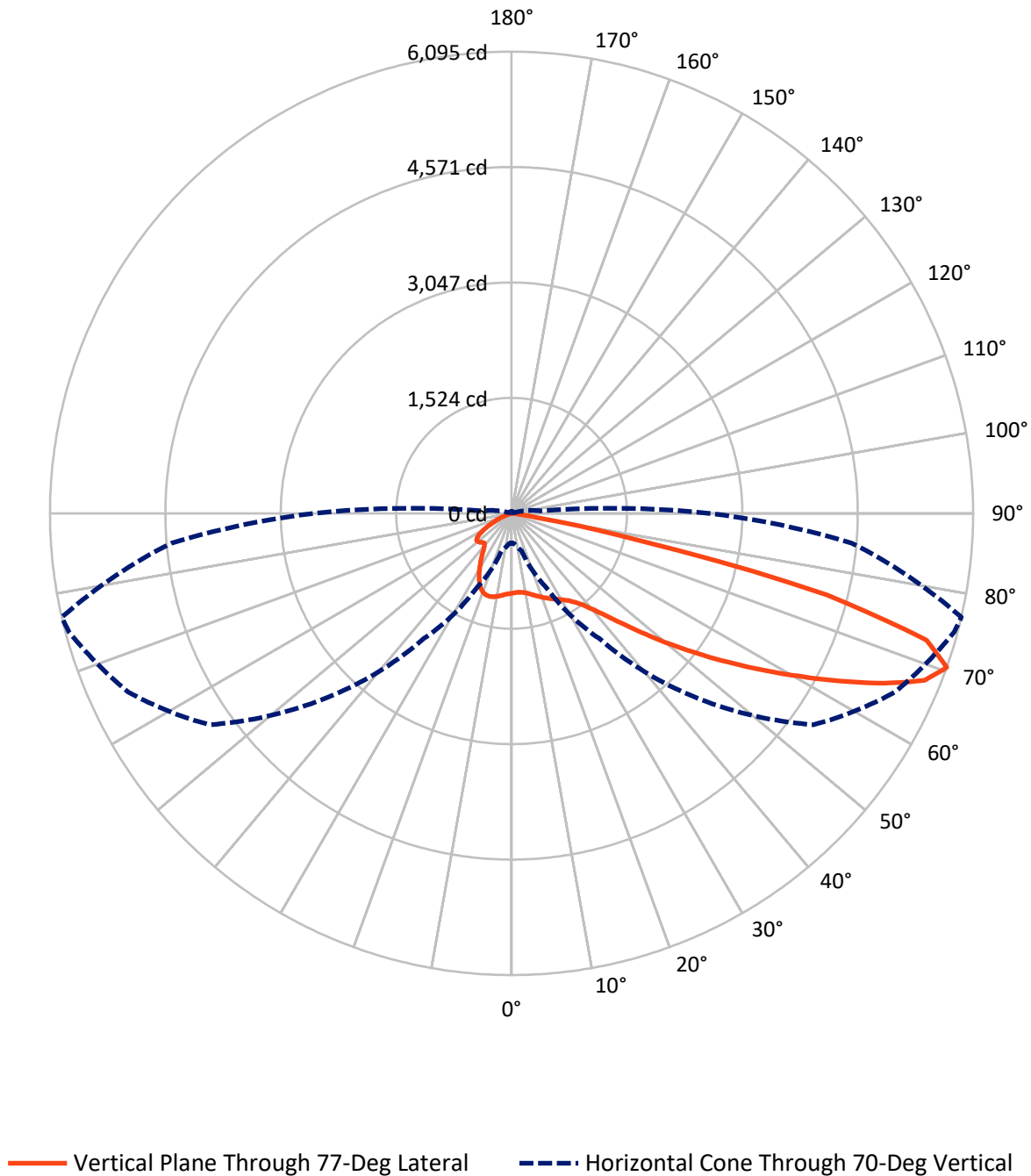
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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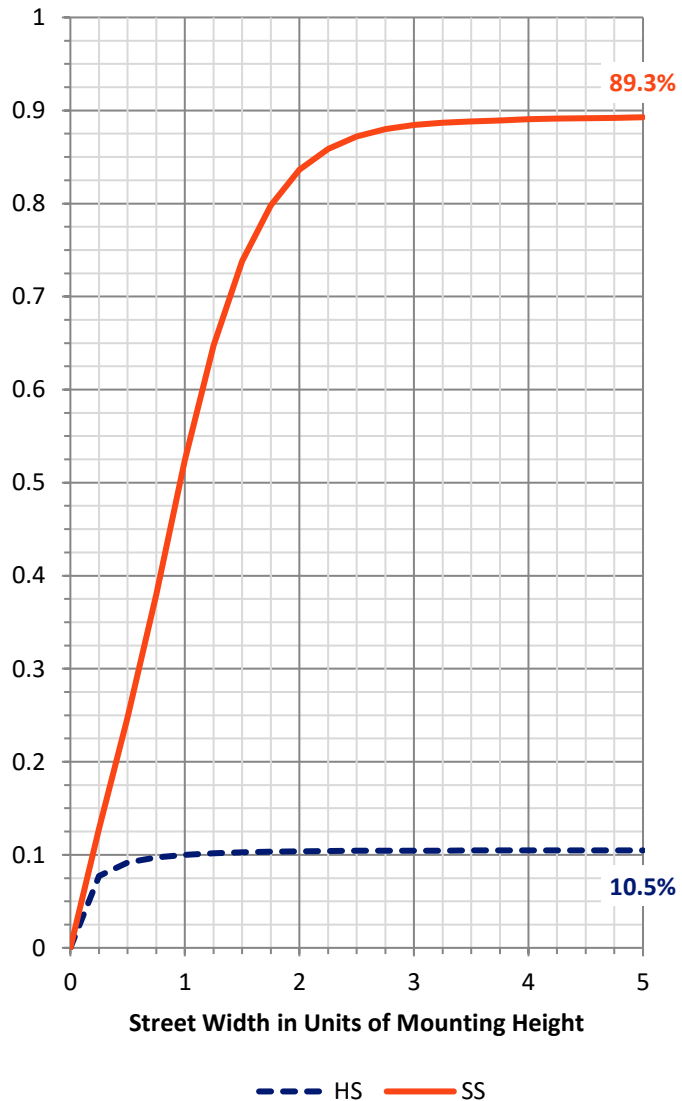
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	713.0	0.0	713.0
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	6050.9	0.0	6050.9
	% Fixture	89.5	0.0	89.5
Total	Lumens	6764.0	0.0	6764.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.9	1.3
10°-20°	215.9	3.2
20°-30°	333.9	4.9
30°-40°	605.8	9.0
40°-50°	1143.6	16.9
50°-60°	1652.3	24.4
60°-70°	1758.9	26.0
70°-80°	932.1	13.8
80°-90°	30.6	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°	6764.0	100.0
0°-180°	6764.0	100.0

Coefficient of Utilization



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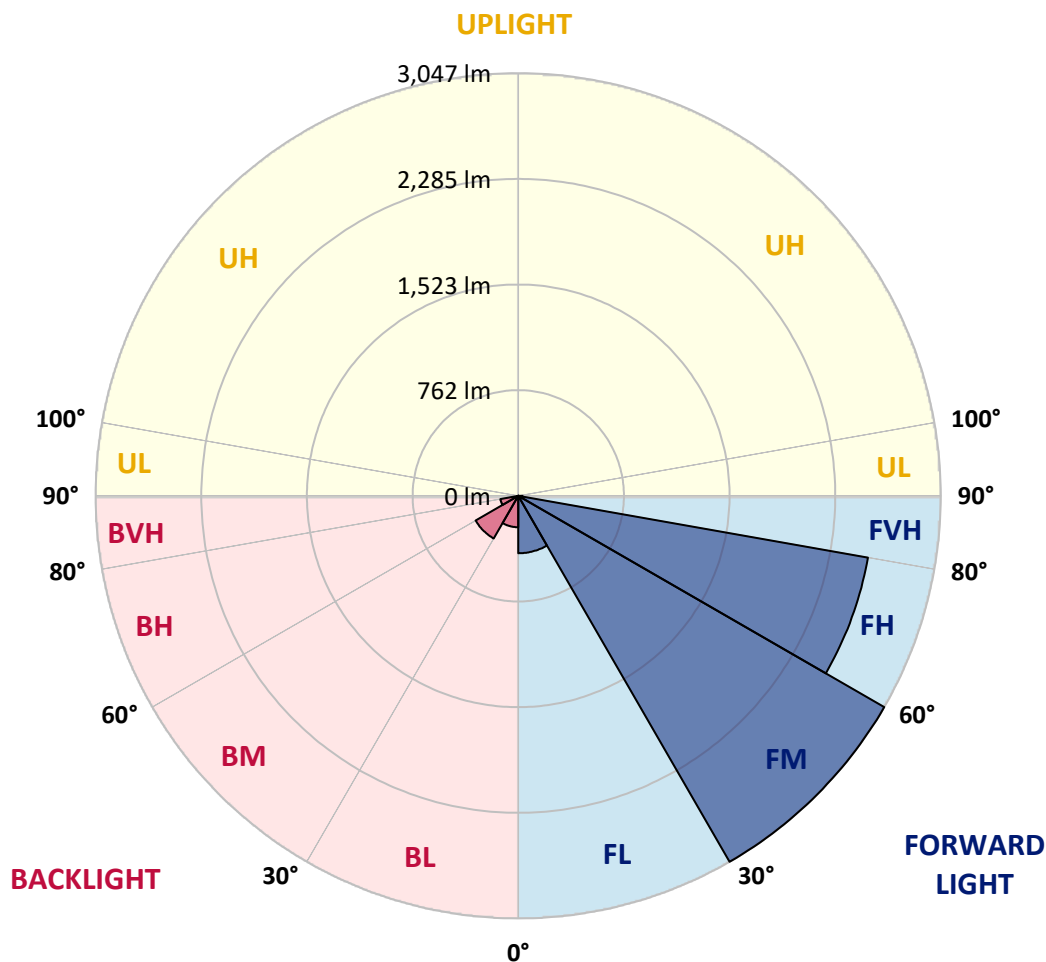
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	414.1	6.1			
FM	(30°-60°)	3046.8	45.0			
FH	(60°-80°)	2560.3	37.9			G2/5000
FVH	(80°-90°)	29.8	0.4			G1/100
BL	(0°-30°)	226.5	3.3	B1/500		
BM	(30°-60°)	354.9	5.2	B1/1000		
BH	(60°-80°)	130.7	1.9	B1/500		G1/500
BVH	(80°-90°)	0.8	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°	65°	75°	77°	85°
0°	1055.0	1055.0	1055.0	1055.0	1055.0	1055.0	1055.0	1055.0	1055.0	1055.0	1055.0
2.5°	990.6	999.5	998.2	1004.2	1006.3	1015.0	1023.5	1034.9	1047.8	1047.3	1056.0
5°	934.6	943.6	945.7	953.9	964.1	977.3	994.9	1017.9	1041.8	1045.7	1062.7
7.5°	868.4	877.8	883.3	899.5	918.4	945.7	974.4	1008.1	1047.8	1053.4	1086.2
10°	802.2	810.8	817.9	841.0	870.9	911.5	958.1	1006.8	1060.2	1068.3	1114.9
12.5°	761.2	769.3	777.4	797.4	834.7	884.2	947.4	1012.8	1080.7	1092.2	1153.7
15°	746.6	753.9	760.3	778.3	812.8	869.2	945.3	1025.2	1106.7	1122.2	1200.7
17.5°	748.8	752.7	756.9	770.6	804.3	862.4	949.1	1046.5	1137.5	1151.2	1247.7
20°	761.2	763.3	763.7	773.2	803.1	861.5	956.8	1067.0	1166.6	1184.9	1294.3
22.5°	776.9	777.9	776.9	783.4	811.2	868.0	967.1	1091.8	1199.0	1216.1	1341.2
25°	850.9	834.7	814.2	801.8	824.8	880.4	982.5	1125.1	1234.5	1251.1	1386.9
27.5°	1080.2	1033.7	960.2	877.8	853.0	898.3	1003.8	1158.9	1270.4	1285.2	1436.0
30°	1452.7	1391.6	1266.9	1081.1	943.6	935.9	1031.6	1192.6	1308.3	1324.6	1488.6
32.5°	1826.0	1811.1	1667.2	1410.0	1147.3	1019.6	1077.7	1238.3	1358.7	1371.6	1559.5
35°	2203.6	2173.3	2055.4	1801.3	1461.2	1190.0	1154.6	1298.1	1425.0	1439.5	1662.9
37.5°	2492.8	2474.5	2401.5	2192.2	1833.7	1453.1	1286.2	1390.8	1521.1	1537.3	1795.3
40°	2748.2	2739.7	2714.9	2577.0	2250.2	1797.4	1490.8	1534.3	1654.4	1673.6	1957.6
42.5°	2949.0	2969.1	2983.2	2944.7	2679.6	2190.4	1765.9	1735.9	1840.2	1859.8	2164.4
45°	3154.5	3161.3	3218.1	3273.6	3105.7	2601.3	2075.9	1972.1	2071.2	2095.6	2412.1
47.5°	3286.5	3313.8	3413.8	3511.5	3464.2	3008.9	2409.2	2251.1	2339.0	2384.8	2689.8
50°	3296.3	3348.0	3485.5	3656.0	3725.2	3396.6	2771.3	2568.9	2662.4	2712.9	2986.2
52.5°	3132.7	3213.0	3426.2	3675.6	3866.1	3725.2	3145.9	2886.7	3006.7	3072.4	3293.7
55°	2401.9	2506.9	3202.7	3568.8	3871.6	3974.2	3510.7	3217.7	3390.3	3464.6	3626.0
57.5°	2092.6	2145.5	2518.0	3383.4	3768.7	4074.6	3840.5	3533.0	3807.6	3899.9	3940.0
60°	1741.1	1810.7	2111.8	3080.1	3629.0	4084.4	4131.8	3939.6	4260.0	4363.7	4227.9
62.5°	1183.2	1258.8	1558.2	2559.0	3438.2	4079.7	4370.6	4358.2	4762.7	4874.2	4471.9
65°	733.0	780.4	977.7	2089.6	3171.1	4084.8	4620.5	4866.5	5293.2	5406.5	4660.6
67.5°	579.2	601.0	704.0	1604.3	2711.1	3969.5	4869.9	5344.5	5792.6	5882.3	4718.3
70°	389.1	402.4	512.2	1075.5	2017.0	3437.2	4865.3	5584.5	6049.8	6094.5	4508.2
72.5°	205.0	215.2	299.4	498.0	1218.2	2443.3	4101.0	5297.5	5793.8	5726.4	3853.3
75°	102.5	119.6	201.6	252.9	520.3	1362.6	2546.6	4176.7	4560.2	4298.8	2472.3
77.5°	77.7	94.0	166.6	166.6	181.1	458.8	1078.5	2278.0	2101.1	1749.6	725.7
80°	49.5	64.1	145.7	126.0	75.6	116.6	281.1	638.2	446.4	339.6	132.0
82.5°	29.0	41.8	121.4	83.3	42.3	43.2	79.4	135.8	115.7	90.1	40.6
85°	11.6	27.4	83.3	32.9	16.7	10.7	23.9	29.0	23.9	17.9	10.2
87.5°	0.0	6.5	14.6	0.0	1.3	0.8	1.7	2.2	2.2	1.7	3.4
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°	1055.0	1055.0	1055.0	1055.0	1055.0	1055.0	1055.0	1055.0	1055.0	1055.0	1055.0
2.5°	1059.7	1060.6	1063.1	1063.6	1057.6	1049.9	1046.9	1045.7	1040.6	1040.1	1041.0
5°	1072.6	1076.5	1072.6	1061.5	1034.9	997.8	969.6	946.6	925.7	919.2	915.4
7.5°	1098.2	1102.1	1090.5	1046.9	980.3	906.4	839.8	792.8	750.5	734.7	728.3
10°	1135.0	1140.1	1103.7	1015.8	897.9	779.1	666.4	586.9	525.0	499.8	489.1
12.5°	1181.1	1183.2	1111.0	968.3	790.7	621.0	461.4	376.3	321.2	300.7	294.3
15°	1231.9	1228.9	1111.9	903.8	644.5	439.1	301.1	247.3	225.1	218.2	218.2
17.5°	1285.2	1272.9	1094.8	810.8	484.4	300.3	223.4	210.5	206.7	205.0	204.6
20°	1337.8	1310.1	1063.6	689.0	347.7	224.3	202.8	199.1	196.9	196.1	195.2
22.5°	1385.7	1338.2	1010.2	547.6	252.5	198.2	191.8	188.4	184.5	182.9	182.3
25°	1432.2	1354.5	935.0	415.6	202.0	185.4	180.3	173.8	168.7	166.6	165.7
27.5°	1477.5	1364.8	841.0	307.5	180.3	173.4	164.0	155.1	151.2	150.4	149.5
30°	1525.8	1368.2	734.3	229.4	167.0	158.5	144.8	134.6	132.4	132.8	132.8
32.5°	1584.8	1373.3	626.6	188.0	155.9	140.5	124.3	113.7	111.9	113.7	113.2
35°	1655.2	1383.5	522.9	173.0	146.1	122.2	104.7	95.6	94.0	95.2	94.8
37.5°	1750.9	1400.1	425.9	170.0	138.0	106.8	87.9	80.8	80.8	81.2	80.8
40°	1878.2	1444.6	339.2	167.9	133.7	95.2	74.3	71.3	72.6	73.5	73.5
42.5°	2033.2	1539.0	280.6	165.3	129.0	90.1	67.4	66.2	68.4	69.2	69.2
45°	2207.0	1658.7	260.1	161.0	124.7	93.6	64.5	62.8	65.4	65.8	66.2
47.5°	2386.9	1775.6	257.6	156.3	120.4	98.7	63.7	59.8	62.8	63.2	63.7
50°	2568.9	1852.1	260.1	149.0	113.7	98.7	64.1	56.8	59.3	60.7	61.1
52.5°	2752.1	1887.1	258.4	133.2	101.7	92.7	64.1	54.2	56.8	57.7	57.7
55°	2929.9	1880.3	232.4	109.8	86.3	82.0	62.3	52.1	53.8	54.2	54.2
57.5°	3070.4	1785.0	184.1	85.4	70.0	68.4	56.8	49.5	50.8	50.4	50.4
60°	3143.8	1575.7	131.6	65.8	55.1	53.8	50.0	46.1	46.9	44.9	44.4
62.5°	3144.7	1299.0	87.9	52.1	44.0	42.7	42.7	41.4	40.6	36.3	35.1
65°	3077.6	991.8	58.5	41.4	35.5	33.3	35.9	35.5	32.5	26.4	25.6
67.5°	2925.6	650.2	44.4	32.5	27.4	26.0	28.6	29.9	27.8	22.2	21.8
70°	2612.8	378.4	36.7	25.2	20.5	19.3	23.1	25.6	23.1	17.9	17.1
72.5°	2170.3	204.2	29.9	18.8	14.1	12.8	18.3	20.9	18.3	13.2	12.8
75°	1408.4	109.4	23.1	12.4	7.3	8.1	13.6	15.4	12.8	8.5	7.7
77.5°	472.8	48.3	14.6	5.9	3.4	3.4	8.1	9.4	5.9	3.0	2.6
80°	105.5	20.1	5.9	2.6	1.3	1.3	1.7	1.7	0.8	0.0	0.0
82.5°	34.6	8.1	2.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	13.2	3.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.1	0.4	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)