

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: P959371

Luminaire Tested: **NAV-SB1A-750-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959371
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1A-750-U-T4W-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 5000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV WIDE OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

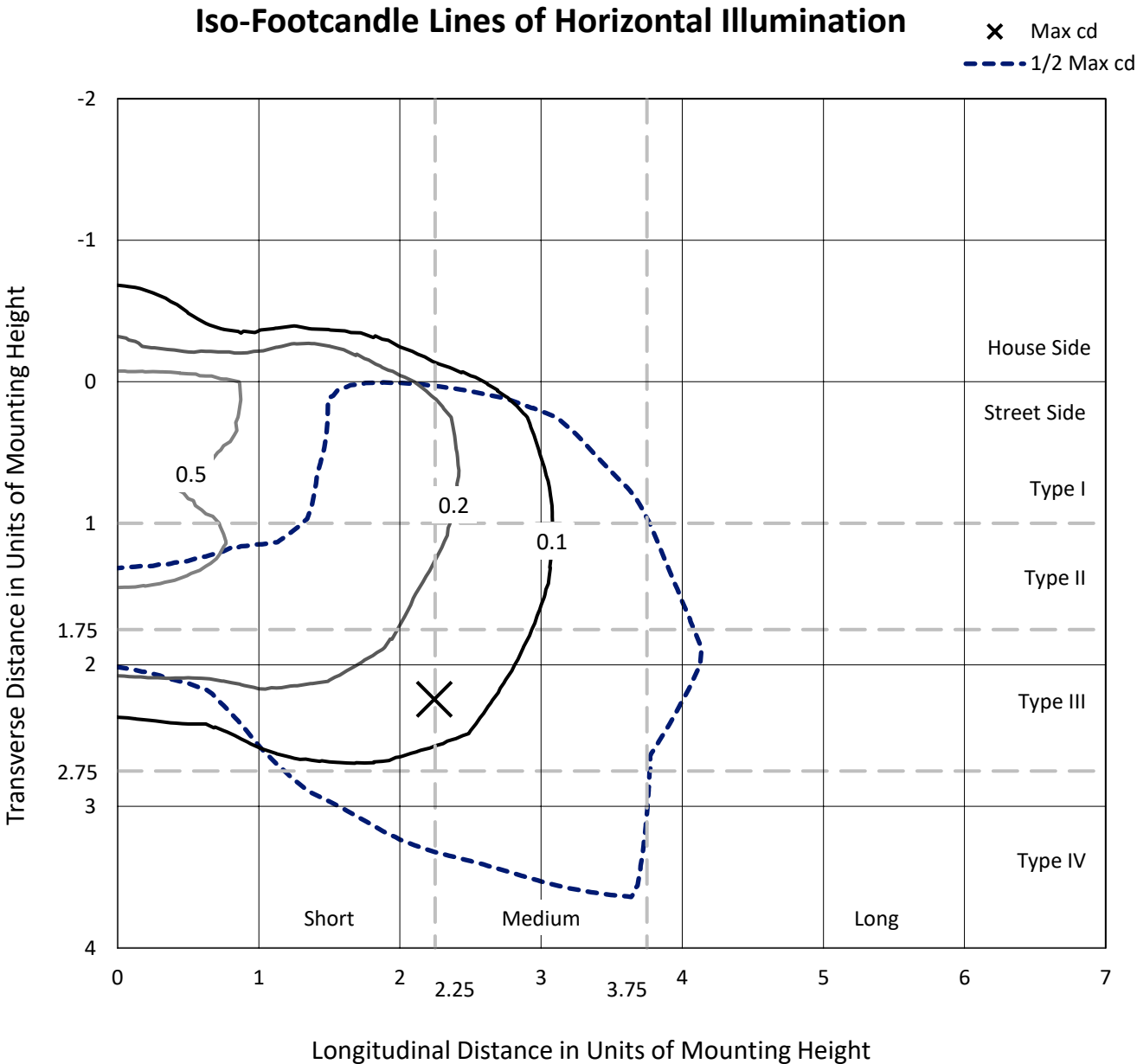
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3748.4 lumens
Efficiency: N/A
Efficacy: 121.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

Input Watts (W): 30.9
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



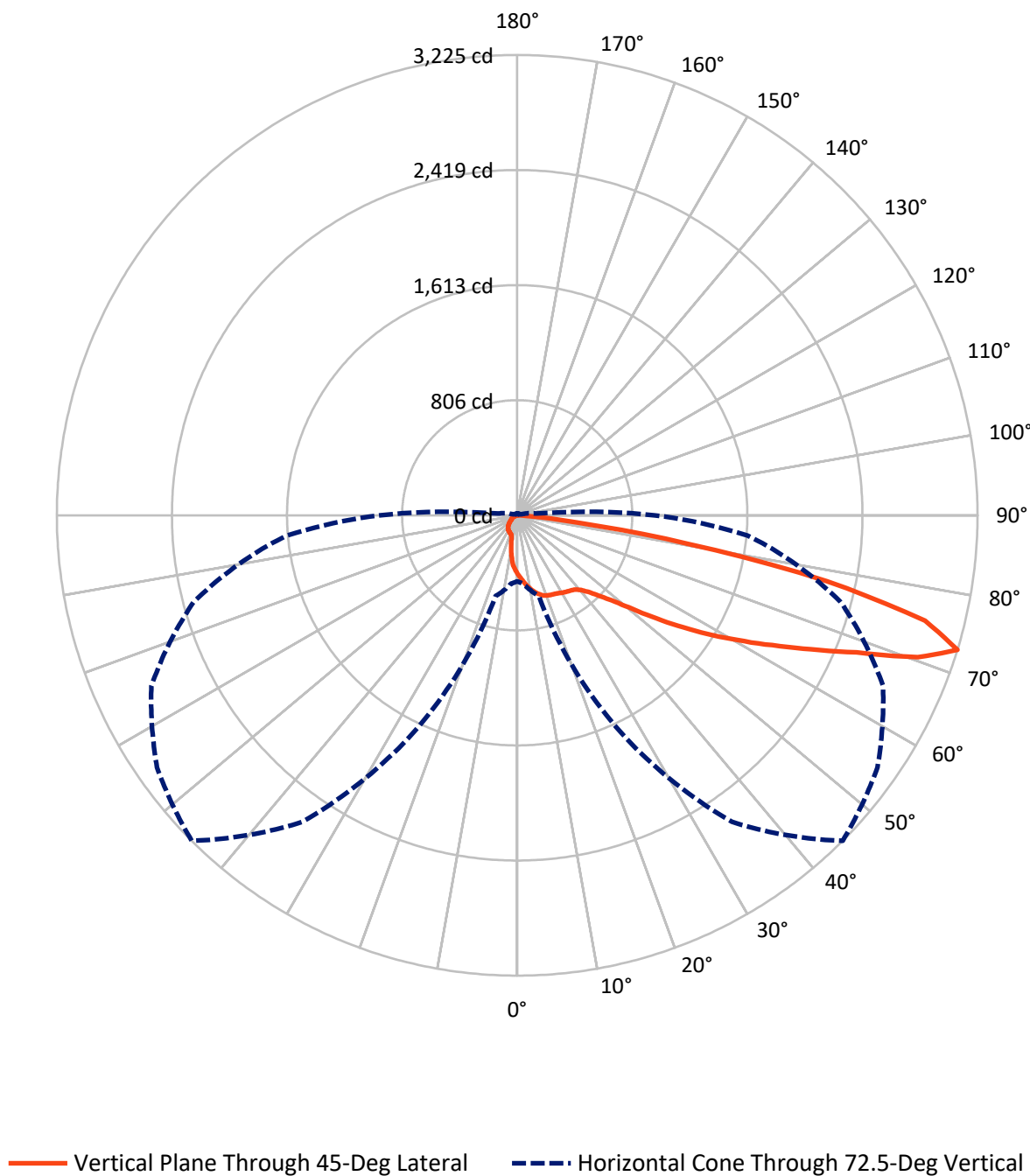
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Based on 25 foot mounting height. Maximum calculated value = 0.9 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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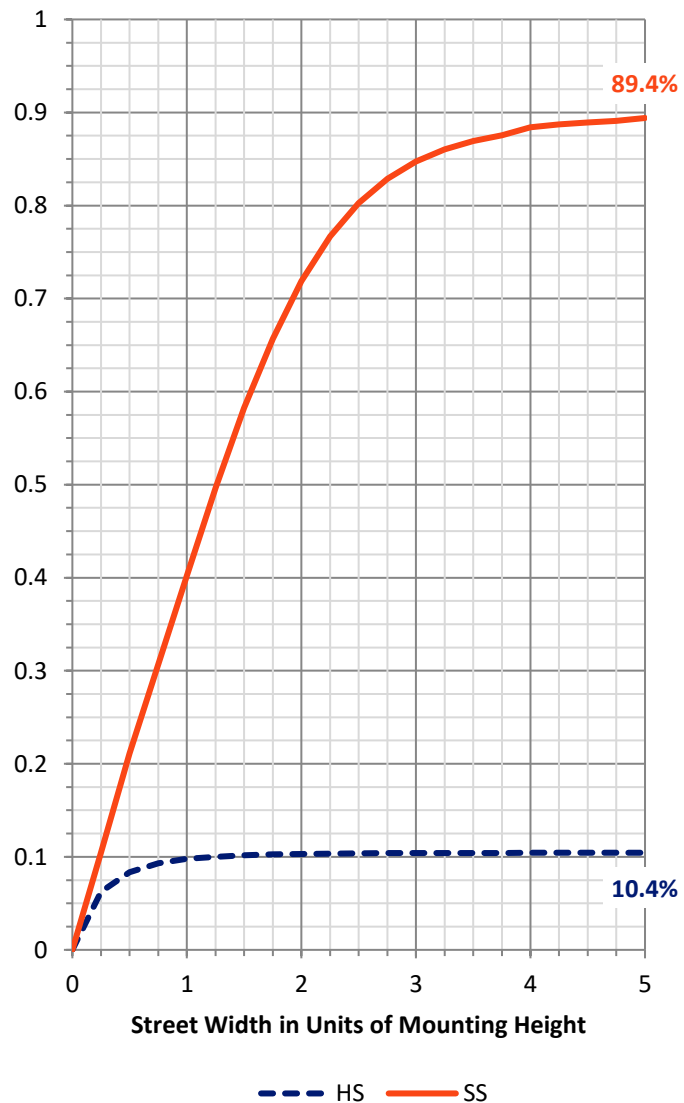
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	393.8	0.0	393.8
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	3354.6	0.0	3354.6
	% Fixture	89.5	0.0	89.5
Total	Lumens	3748.4	0.0	3748.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.7	1.0
10°-20°	113.1	3.0
20°-30°	185.7	5.0
30°-40°	263.4	7.0
40°-50°	435.3	11.6
50°-60°	782.0	20.9
60°-70°	1085.8	29.0
70°-80°	787.6	21.0
80°-90°	56.9	1.5
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°	3748.4	100.0
0°-180°	3748.4	100.0

Coefficient of Utilization



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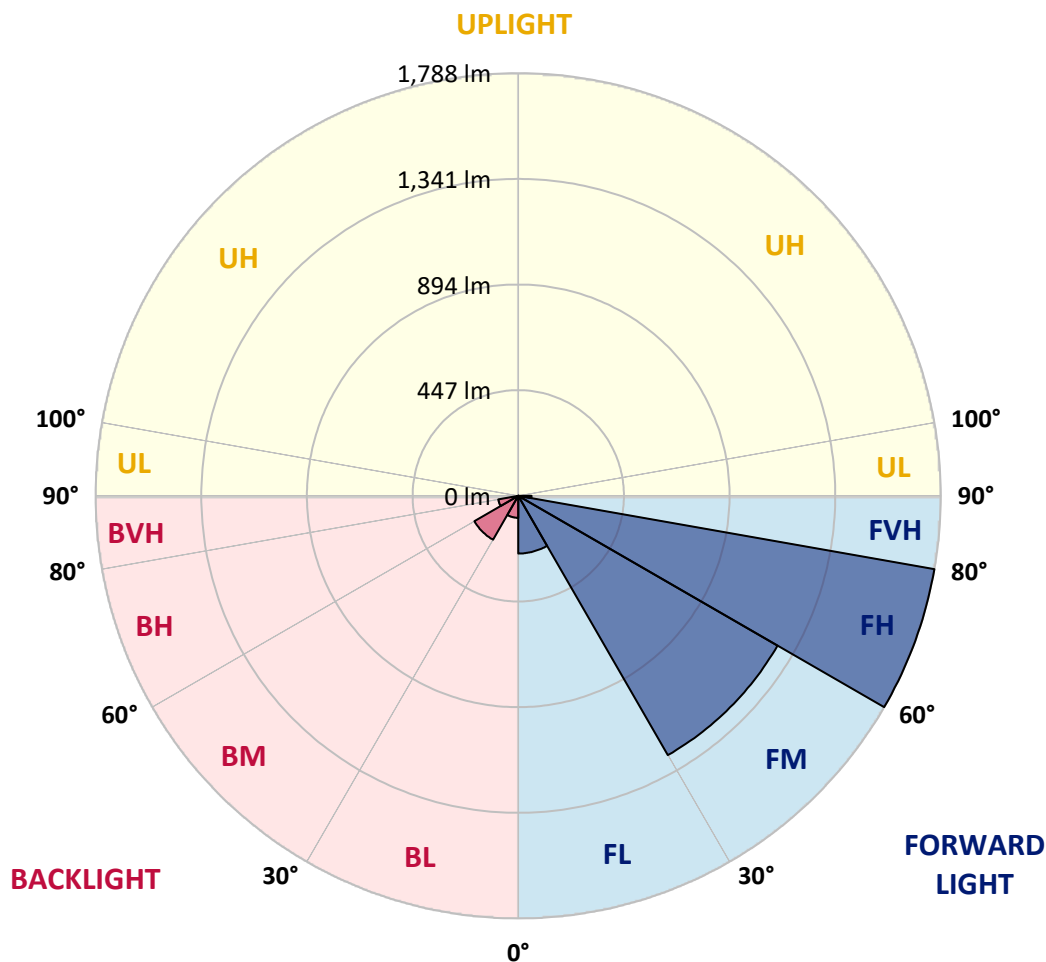
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	244.2	6.5			
FM	(30°-60°)	1266.4	33.8			
FH	(60°-80°)	1787.5	47.7			G1/1800
FVH	(80°-90°)	56.5	1.5			G1/100
BL	(0°-30°)	93.3	2.5	B0/110		
BM	(30°-60°)	214.2	5.7	B0/220		
BH	(60°-80°)	85.9	2.3	B0/110		G0/110
BVH	(80°-90°)	0.5	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	410.6	410.6	410.6	410.6	410.6	410.6	410.6	410.6	410.6	410.6	410.6
2.5°	448.5	449.3	448.7	445.7	440.5	437.8	436.2	431.1	427.8	421.9	415.7
5°	489.7	492.8	491.0	484.8	475.1	468.2	466.2	455.7	446.2	435.2	422.4
7.5°	533.4	534.9	531.7	523.8	510.7	498.9	497.1	482.6	467.4	450.6	433.2
10°	571.3	573.1	568.0	556.5	541.6	527.1	524.5	508.4	490.5	469.8	447.5
12.5°	603.0	604.9	598.2	584.4	568.0	552.9	550.3	533.4	513.7	490.8	463.1
15°	627.1	630.5	621.5	606.6	589.0	573.9	572.6	556.0	536.8	511.2	481.7
17.5°	641.1	644.5	636.0	618.2	603.0	590.3	588.8	574.9	557.0	532.4	499.9
20°	643.5	646.6	637.6	622.0	609.5	599.2	598.4	588.5	575.4	551.9	519.7
22.5°	636.5	640.4	632.2	619.7	611.0	605.6	604.5	598.9	591.5	571.5	538.0
25°	629.5	632.4	626.4	615.3	610.7	610.2	611.0	610.0	608.4	591.5	559.5
27.5°	628.9	632.2	625.4	614.8	612.2	617.7	618.4	623.3	624.5	609.7	580.3
30°	633.2	635.5	628.9	617.9	616.6	628.9	629.1	637.9	639.9	625.0	600.8
32.5°	642.7	645.2	638.6	622.5	620.7	637.9	638.6	650.2	653.4	641.4	622.3
35°	664.9	668.0	660.4	635.3	628.9	646.3	648.6	662.2	668.8	658.9	644.5
37.5°	720.5	711.6	701.0	661.1	647.6	659.6	663.5	679.3	691.1	679.6	671.1
40°	858.4	830.2	797.6	705.1	680.3	688.0	691.1	706.9	723.0	711.8	707.7
42.5°	1065.4	1032.1	979.4	806.5	729.7	733.5	735.8	749.7	772.4	763.5	764.4
45°	1249.9	1237.8	1184.1	979.4	822.0	803.1	806.0	813.1	846.6	843.3	849.9
47.5°	1391.6	1384.7	1343.3	1177.9	978.2	888.4	896.3	899.5	947.9	959.7	977.6
50°	1500.6	1498.0	1460.9	1354.5	1182.0	1013.9	1016.8	1009.6	1082.0	1111.2	1145.2
52.5°	1603.4	1612.1	1584.8	1518.5	1399.7	1178.4	1177.9	1144.2	1241.9	1286.0	1344.0
55°	1696.3	1699.3	1702.2	1685.8	1618.8	1365.7	1360.9	1305.6	1427.4	1472.9	1535.9
57.5°	1783.6	1784.8	1809.9	1843.5	1846.7	1566.8	1557.9	1491.7	1630.1	1662.6	1701.2
60°	1842.1	1848.1	1901.0	1994.1	2034.8	1774.4	1769.5	1701.9	1836.3	1851.4	1844.2
62.5°	1757.8	1793.5	1927.1	2111.8	2212.4	2004.4	2002.0	1938.6	2053.3	2041.0	1979.6
65°	1422.8	1483.5	1718.3	2191.4	2386.6	2261.3	2264.5	2197.0	2276.1	2236.1	2089.6
67.5°	995.3	1059.2	1337.1	2197.8	2581.4	2562.9	2582.1	2476.2	2512.8	2423.2	2115.7
70°	688.3	721.3	902.1	2060.1	2733.1	2978.4	2977.9	2819.1	2748.1	2508.4	1982.7
72.5°	462.9	480.0	585.9	1634.4	2621.5	3225.3	3210.5	3081.0	2827.5	2345.9	1619.8
75°	195.3	207.8	271.2	918.5	2074.0	2950.8	2910.6	2722.8	2512.3	1847.3	1010.6
77.5°	61.9	67.2	106.9	328.8	1142.4	2218.0	2175.6	1700.4	1683.8	926.7	369.4
80°	29.4	34.2	60.2	132.0	449.6	1206.3	1200.5	771.4	724.4	250.2	74.2
82.5°	12.8	15.1	33.2	70.6	201.1	430.4	439.0	262.5	217.2	94.9	22.8
85°	4.1	5.3	15.4	32.5	85.0	106.9	105.7	62.4	87.5	51.7	7.9
87.5°	0.0	0.0	5.1	7.4	8.7	6.1	6.9	5.3	24.3	14.3	2.8
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°	410.6	410.6	410.6	410.6	410.6	410.6	410.6	410.6	410.6	410.6	410.6
2.5°	412.7	408.6	401.4	394.8	388.9	383.0	379.5	374.3	373.8	373.8	375.0
5°	415.5	408.9	396.1	382.5	366.8	352.1	337.2	322.9	318.3	315.0	316.5
7.5°	423.7	413.2	393.0	367.2	337.4	304.9	282.2	257.7	248.2	243.0	243.8
10°	435.4	421.2	390.4	345.1	297.0	252.8	220.3	193.7	183.5	179.1	179.1
12.5°	448.5	430.9	385.8	317.8	252.8	199.8	168.1	155.8	154.3	154.3	154.3
15°	464.1	442.6	377.9	285.6	206.4	158.2	146.9	147.4	148.9	150.0	150.0
17.5°	480.2	455.2	365.4	249.5	165.5	142.3	142.5	143.3	144.5	145.5	145.5
20°	497.6	467.7	348.7	211.0	142.0	137.7	138.4	139.2	140.2	140.7	140.9
22.5°	516.3	479.5	329.0	173.4	134.1	133.8	134.1	134.8	136.1	136.1	136.6
25°	536.3	492.5	306.5	146.1	130.0	130.0	130.5	131.0	132.0	132.0	132.3
27.5°	556.8	504.5	282.7	131.8	126.4	126.2	126.2	126.9	127.4	127.7	127.9
30°	579.2	518.6	258.9	128.7	123.6	122.3	121.6	122.1	122.6	122.8	123.3
32.5°	602.3	532.2	237.7	130.0	120.7	118.5	115.9	115.4	115.4	116.4	117.2
35°	627.9	547.0	221.3	134.3	119.2	112.9	108.8	106.4	106.7	108.2	109.0
37.5°	658.6	564.9	209.3	138.2	118.2	106.4	99.7	97.0	95.2	97.0	96.5
40°	698.7	591.3	200.6	141.2	117.0	99.0	90.1	85.5	82.1	83.1	82.6
42.5°	757.9	632.7	197.3	141.4	114.1	90.3	80.1	73.9	69.1	69.3	68.3
45°	840.7	698.2	214.4	138.2	107.9	80.9	69.6	61.4	58.3	57.6	56.6
47.5°	954.4	793.7	254.1	131.3	99.0	71.6	59.3	52.5	50.1	48.9	48.1
50°	1106.6	916.2	298.1	123.6	90.1	62.9	50.9	46.5	45.0	43.8	43.5
52.5°	1283.1	1040.6	334.2	115.9	81.1	55.2	45.5	42.9	41.7	40.7	40.4
55°	1445.0	1126.3	332.1	107.7	72.4	49.1	41.7	40.2	38.6	37.6	37.1
57.5°	1545.9	1138.3	273.8	98.8	62.4	44.3	38.1	37.1	35.3	34.0	33.7
60°	1592.2	1069.7	191.9	87.0	52.5	39.7	34.2	33.7	31.5	29.7	29.2
62.5°	1600.6	942.3	127.9	72.4	43.8	35.3	30.4	29.7	26.6	23.6	22.0
65°	1566.3	760.1	88.6	56.6	37.3	30.7	26.1	24.6	21.2	18.1	17.1
67.5°	1457.9	533.7	61.7	40.7	31.8	24.3	20.7	20.2	17.6	15.1	14.3
70°	1259.1	304.2	41.2	30.4	25.1	16.6	16.4	16.9	14.3	12.3	11.3
72.5°	965.3	139.2	25.6	22.2	17.1	11.3	13.0	13.3	11.0	9.2	8.2
75°	568.3	59.7	16.1	14.3	8.7	7.4	9.4	9.7	7.4	5.8	5.1
77.5°	193.4	22.5	10.2	8.4	4.3	4.1	6.1	6.1	4.1	2.3	1.7
80°	44.0	8.4	5.1	3.3	2.0	1.7	2.0	1.7	1.0	0.2	0.0
82.5°	12.5	3.3	2.0	1.2	0.7	0.7	0.2	0.0	0.0	0.0	0.0
85°	3.6	1.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.5	0.2	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)