

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: P959362

Luminaire Tested: **NAV-SB1A-750-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959362
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1A-750-U-T2U-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 5000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

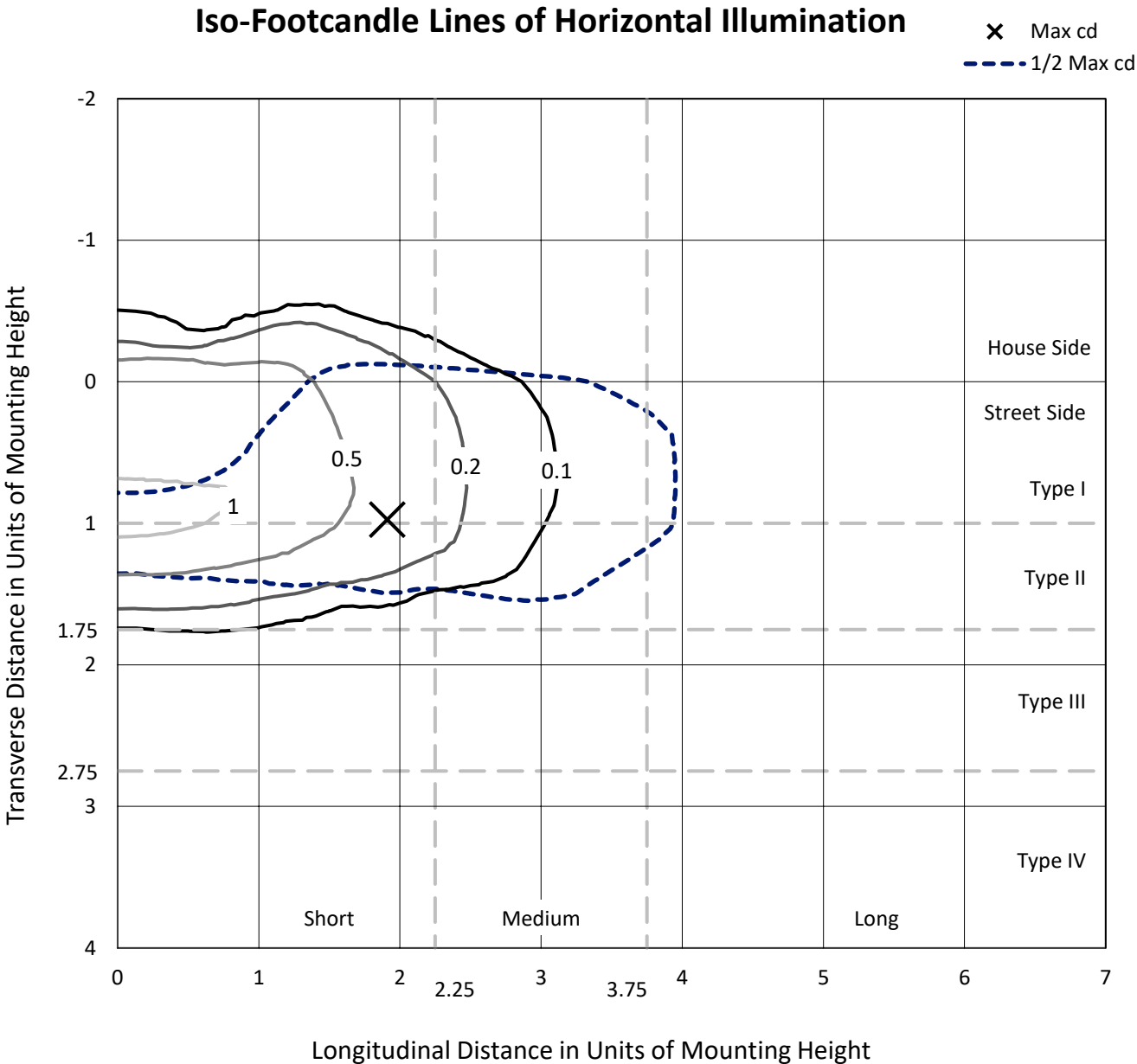
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3718.7 lumens
Efficiency: N/A
Efficacy: 120.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - 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



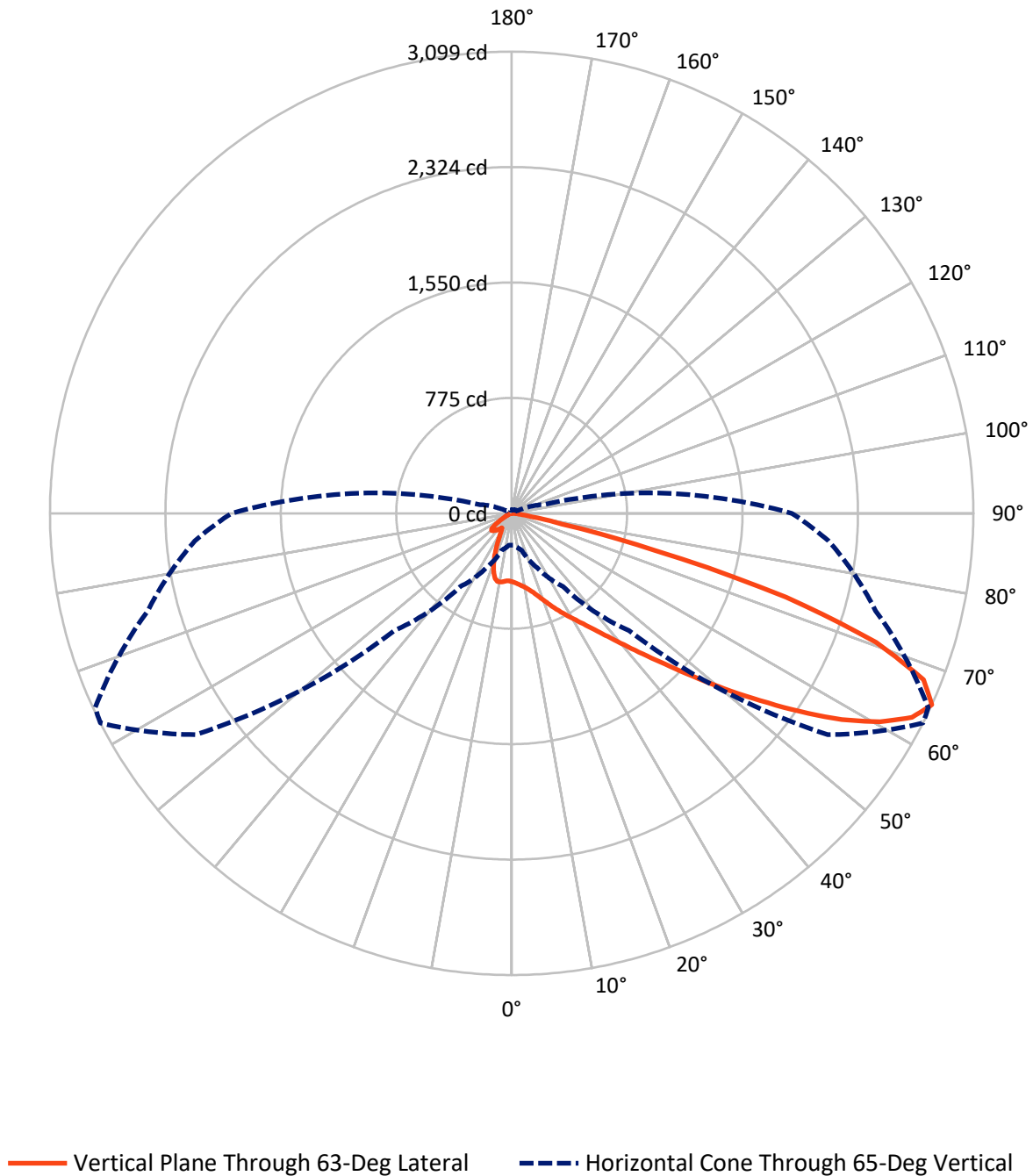
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Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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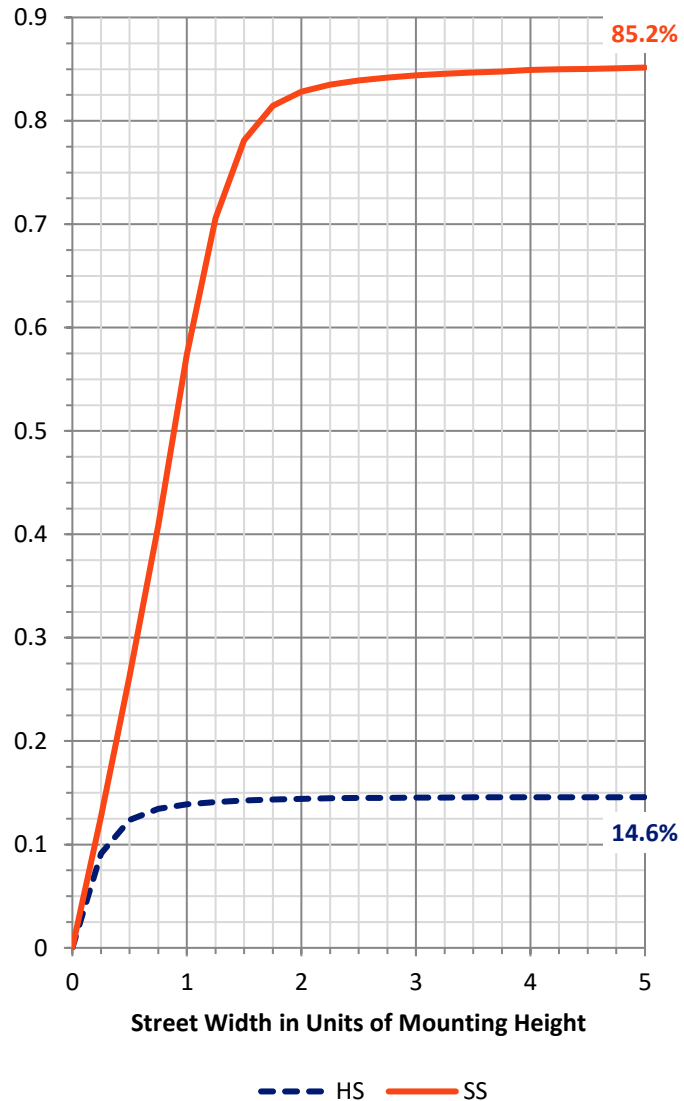
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	546.6	0.0	546.6
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	3172.1	0.0	3172.1
	% Fixture	85.3	0.0	85.3
Total	Lumens	3718.7	0.0	3718.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.2	1.2
10°-20°	120.0	3.2
20°-30°	208.9	5.6
30°-40°	376.6	10.1
40°-50°	746.8	20.1
50°-60°	1017.3	27.4
60°-70°	812.0	21.8
70°-80°	367.4	9.9
80°-90°	26.4	0.7
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°	3718.7	100.0
0°-180°	3718.7	100.0

Coefficient of Utilization



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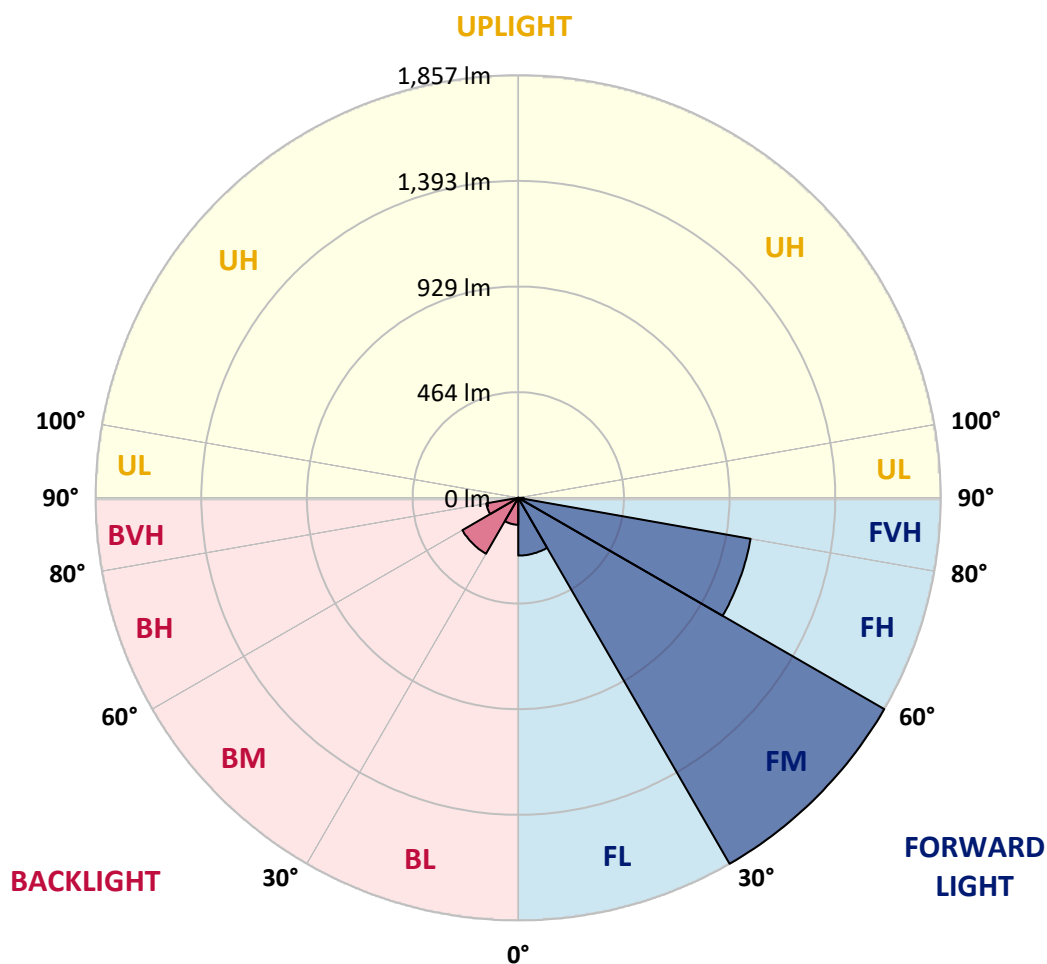
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	253.8	6.8			
FM	(30°-60°)	1857.0	49.9			
FH	(60°-80°)	1036.8	27.9			G1/1800
FVH	(80°-90°)	24.5	0.7			G1/100
BL	(0°-30°)	118.3	3.2	B1/500		
BM	(30°-60°)	283.7	7.6	B1/1000		
BH	(60°-80°)	142.7	3.8	B1/500		G1/500
BVH	(80°-90°)	2.0	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	459.0	459.0	459.0	459.0	459.0	459.0	459.0	459.0	459.0	459.0	459.0
2.5°	469.7	468.4	470.2	469.4	468.9	467.9	467.4	466.9	465.9	465.1	462.1
5°	471.0	470.2	472.0	473.6	475.1	476.6	477.3	478.4	477.3	475.3	472.2
7.5°	460.2	459.7	463.6	468.1	475.1	480.9	487.4	491.0	491.2	490.5	487.1
10°	459.5	458.2	462.1	467.6	476.6	487.1	498.4	506.0	507.1	510.3	506.8
12.5°	471.5	470.2	475.6	481.7	491.0	501.9	515.8	526.5	528.1	532.6	530.0
15°	491.7	489.9	496.1	504.0	515.8	528.3	542.8	552.6	553.9	559.5	554.9
17.5°	515.3	513.4	520.6	529.1	541.8	559.0	575.8	586.6	588.1	591.7	583.3
20°	545.4	543.1	548.8	556.5	570.0	590.5	610.7	626.0	625.8	625.8	611.9
22.5°	580.5	576.9	581.8	587.9	600.6	625.5	652.4	670.6	670.6	663.4	640.6
25°	618.1	614.5	619.9	625.5	636.7	664.9	696.4	718.8	719.9	707.7	671.3
27.5°	665.1	660.5	664.6	671.3	677.9	706.6	743.9	770.1	770.6	751.6	700.5
30°	755.7	742.7	729.9	722.7	725.8	754.2	794.1	823.0	825.5	799.5	732.2
32.5°	921.5	918.9	873.9	815.1	784.3	805.3	850.1	884.9	886.4	852.9	773.4
35°	1179.2	1176.1	1103.6	991.6	891.5	873.9	918.2	959.4	958.4	920.4	826.9
37.5°	1486.7	1483.8	1388.4	1238.5	1076.6	977.5	1005.9	1049.2	1055.5	1005.9	896.0
40°	1749.4	1738.9	1678.5	1533.9	1322.1	1149.4	1130.8	1159.4	1166.0	1107.2	983.7
42.5°	1948.4	1939.4	1908.8	1818.5	1619.4	1403.7	1277.9	1288.8	1296.3	1225.7	1084.4
45°	2051.5	2049.5	2061.7	2053.3	1922.3	1715.8	1488.2	1442.4	1445.1	1356.9	1198.8
47.5°	2066.1	2065.1	2121.0	2200.4	2182.7	2067.8	1758.1	1633.7	1623.7	1505.0	1323.2
50°	1980.1	1978.0	2085.6	2234.2	2356.7	2363.6	2064.6	1849.4	1827.4	1658.2	1452.8
52.5°	1705.6	1705.1	1881.6	2129.0	2417.9	2622.5	2367.4	2086.3	2049.5	1820.5	1590.0
55°	1312.4	1321.8	1524.3	1816.6	2306.4	2747.1	2639.4	2349.3	2292.7	1983.7	1716.4
57.5°	929.7	943.5	1143.6	1403.9	1960.4	2673.4	2823.4	2612.8	2551.9	2146.5	1844.5
60°	499.4	511.7	712.0	1022.8	1458.5	2398.7	2920.3	2841.5	2783.9	2300.9	1960.2
62.5°	297.6	301.7	384.5	660.3	986.5	1832.5	2879.1	3015.8	2968.4	2430.7	2060.7
65°	213.6	214.4	256.0	403.2	598.9	1113.4	2590.3	3099.1	3084.5	2528.4	2135.2
67.5°	179.9	179.4	196.7	267.8	408.1	557.7	1985.2	2981.2	3043.1	2590.3	2177.4
70°	154.3	155.1	175.5	196.2	306.8	315.7	987.0	2595.6	2727.6	2606.7	2174.8
72.5°	114.9	117.5	136.3	178.9	231.5	217.2	340.8	1924.6	2163.3	2456.0	2062.0
75°	81.1	82.4	95.9	150.5	172.7	158.1	173.9	995.0	1300.9	1882.9	1687.7
77.5°	62.4	64.7	72.7	105.2	170.1	111.0	106.4	344.3	529.1	1137.4	1157.1
80°	33.7	37.8	52.5	76.0	119.5	78.5	52.7	137.1	179.4	531.9	446.2
82.5°	17.4	19.5	36.6	54.7	68.1	68.6	26.1	57.1	73.9	164.2	61.2
85°	6.9	8.4	24.6	30.2	35.1	33.7	11.8	23.1	26.6	45.5	18.7
87.5°	1.5	2.6	8.9	6.9	6.7	7.2	2.8	5.3	5.1	5.3	3.3
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°	459.0	459.0	459.0	459.0	459.0	459.0	459.0	459.0	459.0	459.0	459.0
2.5°	461.8	460.7	458.0	454.9	451.3	449.3	447.9	447.7	445.9	444.6	445.9
5°	469.4	468.4	463.1	456.6	449.8	444.3	439.2	434.7	428.0	426.7	426.2
7.5°	484.8	482.0	473.2	464.6	451.5	435.9	417.0	395.2	375.8	369.9	367.2
10°	503.7	499.9	488.9	473.6	444.6	402.2	356.4	313.9	280.1	270.7	267.1
12.5°	525.2	521.9	507.3	478.9	415.7	338.8	268.7	216.0	183.2	175.0	172.7
15°	550.8	545.9	525.7	470.7	364.1	257.4	184.5	153.2	141.4	139.9	138.4
17.5°	577.9	570.0	542.1	441.3	294.5	183.0	142.5	133.6	128.4	126.9	126.1
20°	602.7	592.4	551.9	396.8	220.0	142.5	127.6	121.8	117.2	115.4	114.4
22.5°	627.5	612.9	551.9	336.2	165.0	126.4	117.2	111.8	106.4	104.1	102.8
25°	653.4	634.0	542.1	268.7	132.7	115.9	107.2	101.3	96.7	93.9	92.9
27.5°	678.4	651.6	519.9	204.7	118.2	106.7	98.0	92.4	88.0	86.0	86.0
30°	702.2	669.0	488.6	155.3	108.8	97.7	89.6	84.7	80.4	78.3	78.5
32.5°	734.5	691.0	455.4	127.4	100.6	89.3	81.9	77.3	73.4	71.9	71.9
35°	779.2	723.4	426.7	125.0	93.6	82.4	74.9	70.6	66.7	65.5	65.5
37.5°	842.7	775.9	411.6	140.4	88.0	76.3	69.3	64.7	61.2	60.2	59.9
40°	921.0	847.1	419.8	155.8	84.2	70.8	64.2	59.7	56.6	55.2	55.0
42.5°	1013.8	934.8	465.1	167.6	81.6	66.2	59.3	54.2	52.2	51.7	51.7
45°	1120.5	1031.3	534.4	180.1	77.5	61.9	54.5	50.6	49.1	48.9	48.6
47.5°	1241.8	1137.1	614.8	195.7	73.4	57.8	50.6	48.1	46.8	46.3	46.3
50°	1362.0	1243.8	697.4	204.4	70.1	54.0	47.6	45.5	44.5	44.3	44.3
52.5°	1487.9	1353.6	764.1	196.2	67.2	50.9	45.0	43.5	42.4	42.2	42.2
55°	1607.9	1442.4	775.7	166.6	61.7	47.9	42.2	41.4	40.2	40.2	39.9
57.5°	1711.2	1486.9	694.3	122.3	56.1	43.3	39.4	38.6	37.6	37.3	37.1
60°	1806.2	1474.1	536.0	82.4	49.9	38.6	35.8	35.3	34.2	33.0	32.7
62.5°	1859.7	1417.8	366.6	53.7	43.8	33.7	31.7	31.5	29.2	26.6	26.1
65°	1879.8	1302.2	228.7	39.2	36.6	28.9	27.4	26.9	23.6	20.7	20.5
67.5°	1862.2	1111.8	115.4	31.0	28.9	24.1	22.5	22.5	20.2	17.6	17.4
70°	1791.6	833.5	48.6	24.8	22.2	18.4	18.4	19.5	17.1	14.3	14.0
72.5°	1638.4	560.8	25.8	19.0	16.6	13.0	15.1	15.9	13.5	10.8	10.8
75°	1302.5	342.0	17.9	14.0	10.5	9.2	11.5	12.0	9.2	7.2	6.9
77.5°	890.8	196.5	12.0	8.9	6.7	5.3	7.9	7.4	4.8	3.3	3.6
80°	391.1	81.9	6.9	4.1	2.6	2.0	2.8	2.0	1.5	1.0	1.0
82.5°	45.8	19.2	2.6	1.5	1.0	0.5	0.2	0.0	0.0	0.0	0.0
85°	9.4	2.3	1.2	0.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.7	0.5	0.2	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)