

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: P959334

Luminaire Tested: **NAV-SB1A-740-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959334
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1A-740-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 4000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

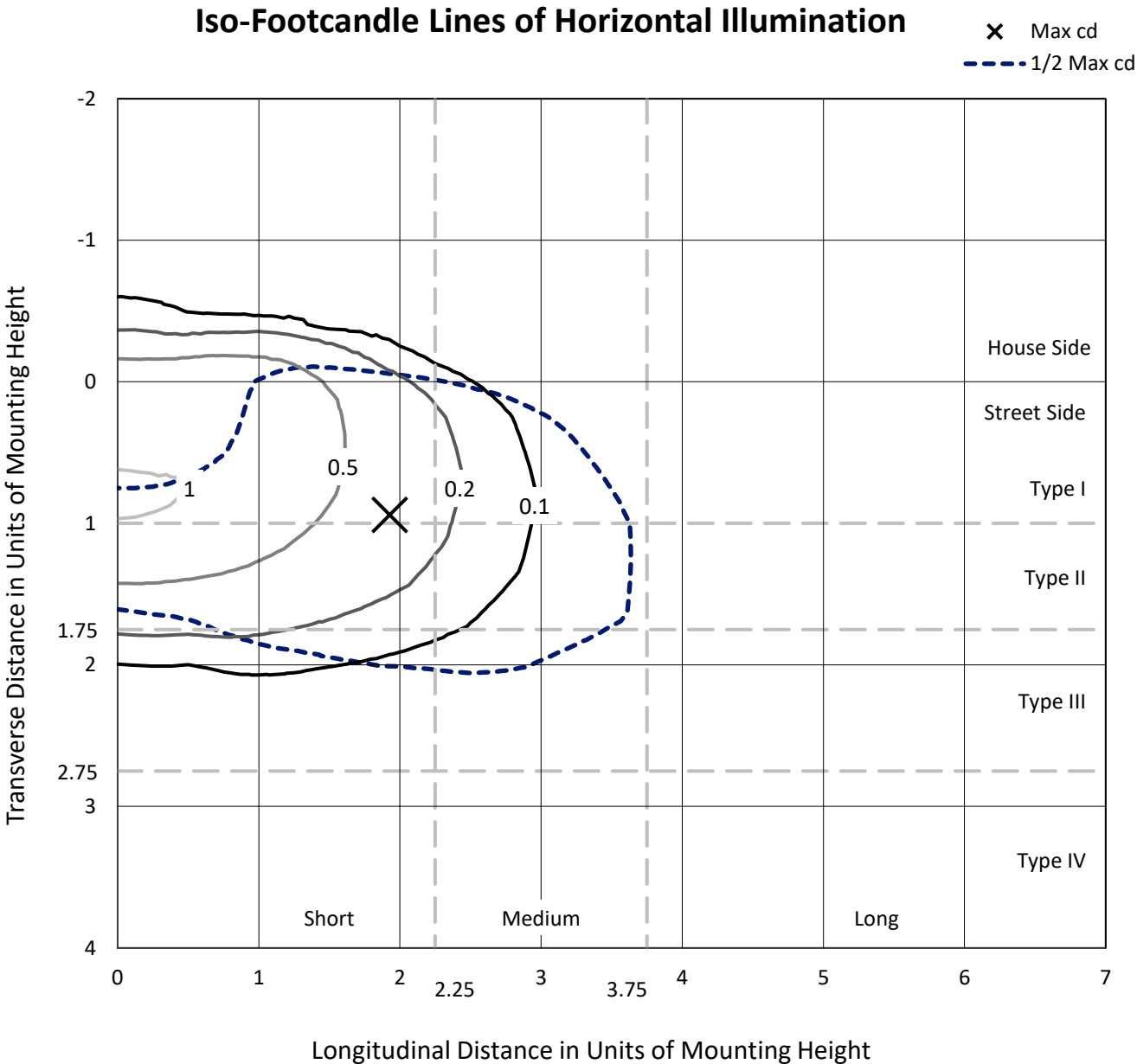
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3816.1 lumens
Efficiency: N/A
Efficacy: 123.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - 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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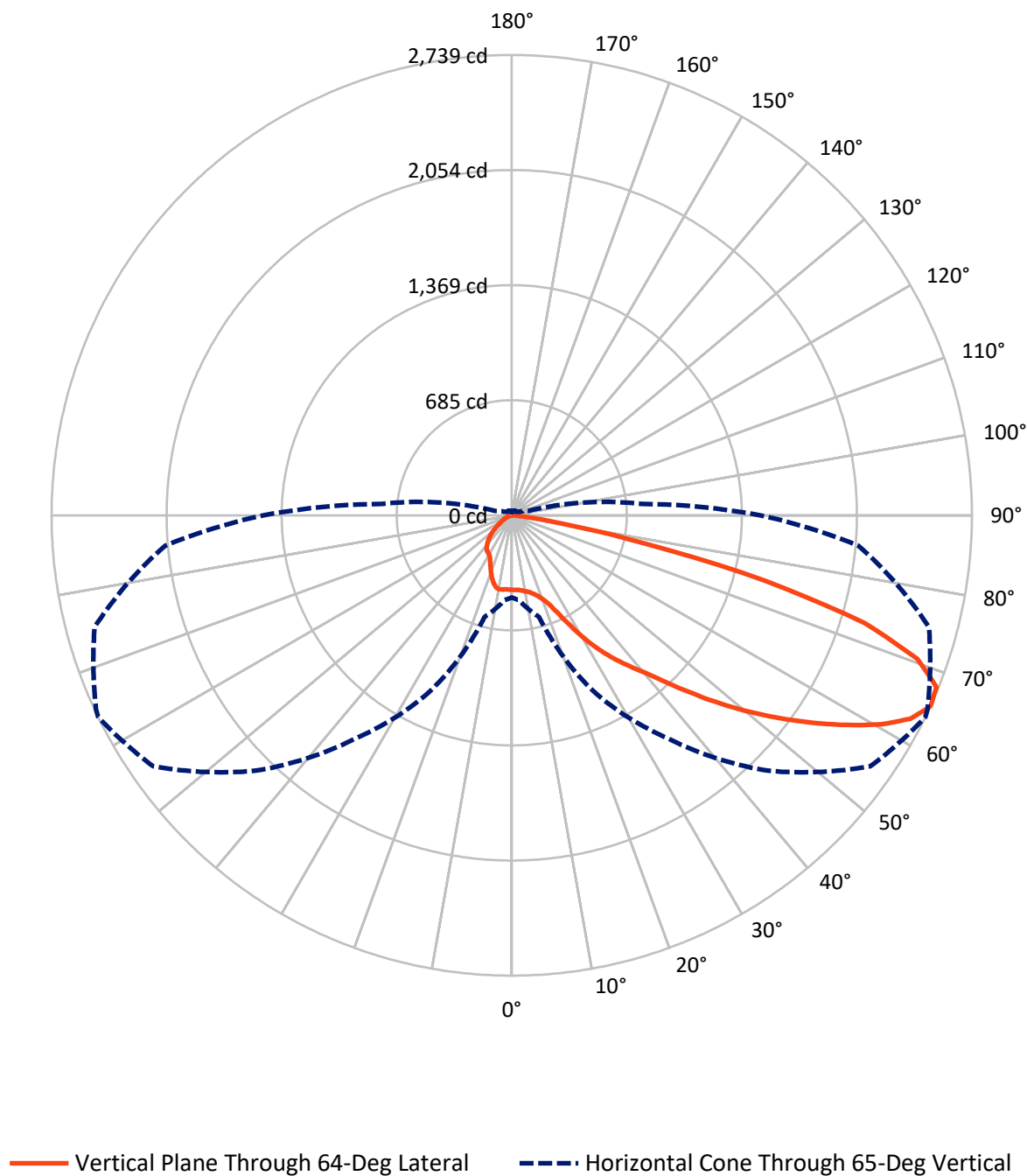


Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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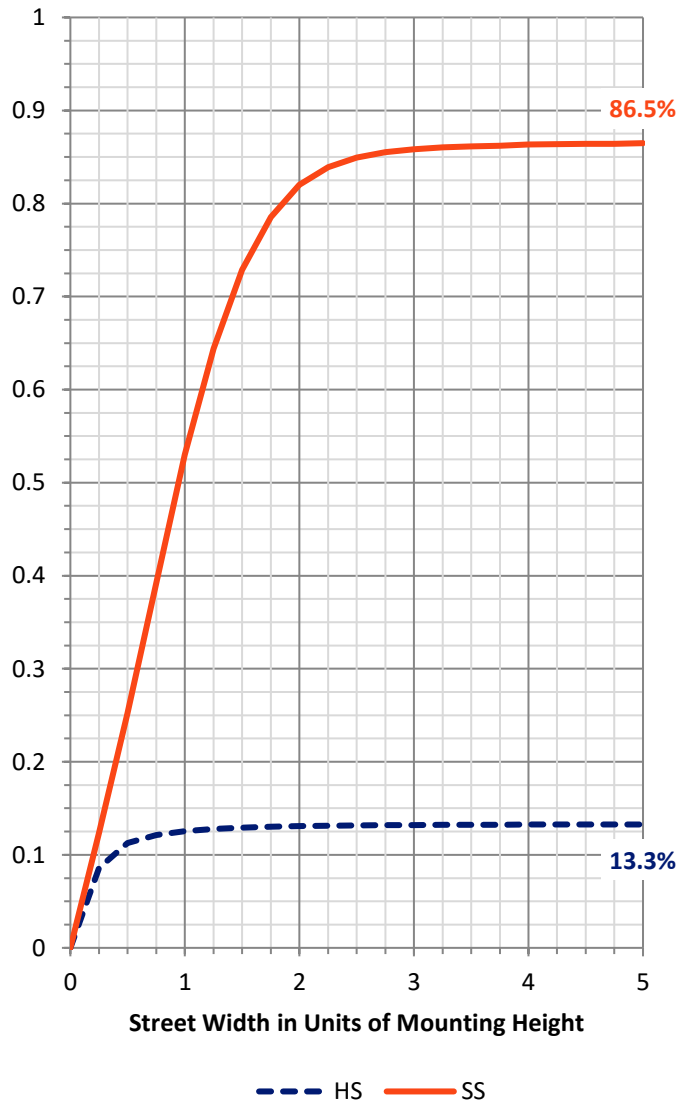
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	510.3	0.0	510.3
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	3305.7	0.0	3305.7
	% Fixture	86.6	0.0	86.6
Total	Lumens	3816.1	0.0	3816.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.9	1.1
10°-20°	111.1	2.9
20°-30°	210.5	5.5
30°-40°	425.9	11.2
40°-50°	725.5	19.0
50°-60°	986.6	25.9
60°-70°	926.5	24.3
70°-80°	371.2	9.7
80°-90°	18.0	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°	3816.1	100.0
0°-180°	3816.1	100.0

Coefficient of Utilization



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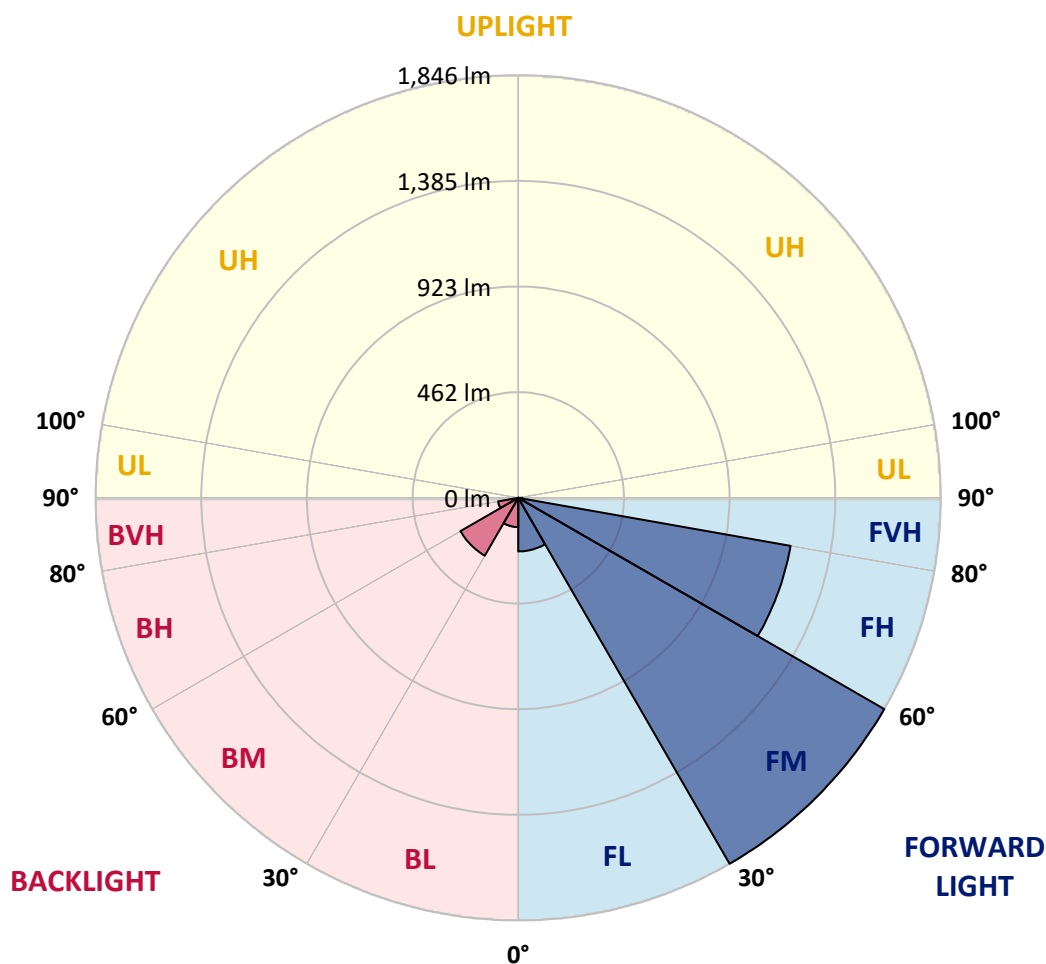
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	234.4	6.1			
FM	(30°-60°)	1846.2	48.4			
FH	(60°-80°)	1208.1	31.7			G1/1800
FVH	(80°-90°)	17.1	0.4			G1/100
BL	(0°-30°)	128.1	3.4	B1/500		
BM	(30°-60°)	291.7	7.6	B1/1000		
BH	(60°-80°)	89.6	2.3	B0/110		G0/110
BVH	(80°-90°)	0.9	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-G1

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	443.8	443.8	443.8	443.8	443.8	443.8	443.8	443.8	443.8	443.8	443.8
2.5°	442.3	445.4	444.6	443.8	443.6	444.1	444.3	444.1	444.1	444.1	444.3
5°	433.9	436.4	436.4	438.2	440.7	443.8	446.2	446.7	447.2	447.9	447.7
7.5°	417.8	419.8	421.4	427.2	433.6	441.8	448.7	452.3	452.8	455.6	456.6
10°	406.7	409.3	411.8	418.0	427.2	439.5	451.3	459.9	461.2	467.9	471.0
12.5°	406.2	408.8	412.2	418.8	429.5	442.6	456.9	469.4	471.7	481.4	487.9
15°	411.6	414.7	417.8	426.0	437.5	453.4	468.6	484.3	486.6	500.4	507.3
17.5°	422.6	426.7	429.0	437.2	449.5	467.1	487.4	505.2	507.3	523.4	532.1
20°	444.3	449.3	450.0	456.6	468.6	487.6	511.7	533.9	536.5	554.8	564.6
22.5°	489.3	496.3	490.2	493.4	504.2	523.2	549.3	577.4	581.0	602.0	610.7
25°	568.7	578.4	562.5	556.9	561.5	581.2	614.0	649.5	653.6	670.6	674.9
27.5°	724.5	712.0	687.9	664.4	650.6	661.8	698.6	742.6	747.7	764.1	759.0
30°	895.6	884.7	852.2	799.9	767.2	765.4	799.4	848.6	854.4	870.0	854.4
32.5°	1067.0	1056.6	1021.2	957.0	900.3	872.1	895.6	950.1	953.1	963.2	940.1
35°	1235.6	1224.9	1189.6	1123.8	1054.0	990.0	985.4	1046.8	1047.9	1058.3	1024.1
37.5°	1405.3	1396.3	1358.6	1294.2	1225.4	1137.1	1094.4	1138.4	1139.7	1149.9	1114.4
40°	1526.2	1530.0	1504.2	1454.4	1395.2	1298.8	1216.7	1235.8	1228.2	1245.4	1224.1
42.5°	1630.1	1637.7	1615.3	1590.2	1555.9	1471.0	1368.2	1364.8	1352.5	1361.7	1339.8
45°	1719.8	1726.3	1706.1	1700.2	1699.4	1639.8	1533.6	1513.7	1496.6	1494.8	1468.4
47.5°	1752.9	1765.2	1773.9	1793.5	1832.0	1806.9	1704.8	1673.8	1654.7	1640.6	1598.9
50°	1765.5	1778.5	1808.1	1865.4	1956.2	1967.0	1875.1	1840.4	1816.8	1791.3	1729.9
52.5°	1748.5	1771.8	1811.7	1908.1	2040.0	2095.4	2038.6	2008.2	1981.3	1939.6	1848.6
55°	1649.0	1672.3	1753.9	1907.6	2081.6	2185.5	2193.2	2179.6	2149.4	2083.6	1944.5
57.5°	1439.2	1473.7	1603.0	1842.6	2080.9	2263.0	2344.6	2354.3	2320.6	2226.4	2020.0
60°	1148.6	1195.5	1353.0	1698.6	2016.6	2304.9	2477.3	2526.0	2490.1	2367.1	2081.1
62.5°	801.4	855.7	1004.9	1473.0	1869.8	2274.8	2574.3	2664.1	2637.0	2493.0	2104.6
65°	488.8	506.2	626.5	1159.2	1620.1	2148.4	2604.2	2738.8	2729.9	2570.0	2069.9
67.5°	325.6	340.2	374.7	794.8	1257.6	1895.8	2532.7	2725.8	2728.3	2557.5	1942.5
70°	196.2	208.8	231.2	462.3	815.1	1500.6	2310.9	2559.5	2574.3	2389.9	1701.0
72.5°	80.9	89.3	109.8	209.5	422.1	952.4	1840.1	2197.5	2232.0	2009.5	1305.4
75°	45.8	50.1	64.5	105.2	183.2	443.8	1114.6	1559.9	1610.9	1385.0	785.4
77.5°	30.4	32.5	41.7	68.1	103.1	151.5	476.3	812.7	910.0	756.4	340.0
80°	20.5	22.2	28.7	45.5	67.0	65.0	151.7	301.1	370.4	259.9	82.9
82.5°	13.8	14.0	20.5	29.9	42.4	31.5	44.8	93.6	117.7	75.2	31.5
85°	7.9	7.7	15.1	17.4	19.0	13.0	13.5	28.2	36.8	31.7	17.9
87.5°	1.0	1.5	5.8	4.6	2.6	2.8	2.8	4.8	7.2	7.7	3.8
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°	443.8	443.8	443.8	443.8	443.8	443.8	443.8	443.8	443.8	443.8	443.8
2.5°	444.3	444.1	443.3	442.6	440.7	439.7	440.2	439.7	439.5	439.7	440.7
5°	447.7	446.9	444.8	442.3	438.7	434.4	431.5	427.5	423.6	421.4	421.9
7.5°	456.6	455.9	453.0	445.9	434.4	416.3	399.5	385.0	374.0	367.6	367.9
10°	471.0	469.7	465.4	449.5	419.3	379.7	346.7	319.3	301.3	292.9	292.1
12.5°	487.9	486.4	478.7	446.2	390.6	328.7	283.2	252.8	236.2	228.7	228.0
15°	507.8	505.7	490.7	430.3	348.9	272.4	230.7	208.0	197.2	190.5	190.9
17.5°	532.6	529.0	499.6	406.5	303.7	229.5	198.5	181.4	171.9	165.5	165.0
20°	564.9	558.9	506.8	378.1	262.0	202.3	176.8	162.5	155.3	149.6	148.6
22.5°	609.9	601.5	515.5	347.4	232.6	183.7	160.6	150.2	144.3	137.9	136.8
25°	665.6	655.7	526.2	319.0	212.4	167.6	148.9	140.2	133.2	125.9	125.0
27.5°	743.6	725.8	539.0	295.7	195.0	153.8	138.2	128.4	120.5	114.4	113.1
30°	830.7	801.2	550.2	281.7	179.1	140.9	124.0	114.4	106.9	102.6	101.8
32.5°	913.1	873.1	557.7	275.5	164.7	126.4	108.8	98.2	92.6	91.3	92.0
35°	990.8	938.1	556.9	269.7	152.0	111.8	93.6	82.9	78.5	79.3	79.3
37.5°	1080.4	1007.5	551.6	260.5	141.4	98.5	80.6	71.1	67.2	67.5	68.6
40°	1184.5	1087.5	548.3	243.0	130.0	86.2	69.8	62.1	59.3	58.3	58.1
42.5°	1295.5	1165.0	548.8	223.3	115.6	75.2	62.4	56.1	53.5	52.7	52.5
45°	1407.0	1238.9	549.5	202.8	100.6	66.7	57.1	51.7	50.1	49.1	49.1
47.5°	1511.9	1301.9	535.2	180.9	85.7	60.4	52.7	49.1	47.9	46.5	46.5
50°	1609.7	1343.9	500.6	155.3	73.9	55.2	49.4	46.8	45.5	44.3	44.3
52.5°	1685.6	1350.4	443.6	128.9	65.7	51.5	47.4	45.0	43.5	42.2	41.9
55°	1719.3	1308.8	362.5	104.3	59.3	48.1	45.3	42.9	41.2	39.9	39.7
57.5°	1710.7	1221.1	282.7	83.9	53.2	44.8	42.7	41.2	39.2	37.1	36.8
60°	1668.0	1103.6	213.1	69.8	47.6	41.2	39.9	38.6	35.8	32.7	32.2
62.5°	1594.0	956.0	152.0	57.8	41.4	37.1	36.6	35.6	31.5	25.8	25.3
65°	1480.9	776.6	102.3	48.1	35.6	32.5	32.7	31.0	25.6	19.2	18.7
67.5°	1315.7	568.0	65.5	39.4	29.7	27.2	27.4	26.3	21.7	16.4	15.6
70°	1105.2	376.1	42.7	29.9	23.8	21.0	22.5	22.8	18.4	13.3	12.8
72.5°	810.2	222.0	29.9	22.2	17.4	14.6	18.4	19.0	14.9	9.9	9.4
75°	461.8	105.4	22.5	16.1	10.8	10.2	14.3	14.3	10.2	6.7	6.1
77.5°	193.9	44.0	15.9	10.5	6.1	5.8	9.7	8.9	5.1	3.1	3.1
80°	56.1	19.7	8.4	5.1	2.6	2.3	3.8	2.8	1.2	0.5	0.5
82.5°	22.0	8.7	3.3	2.0	1.0	1.0	0.5	0.0	0.0	0.0	0.0
85°	13.0	3.6	1.5	0.7	0.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.3	0.7	0.5	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)