

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: P959462

Luminaire Tested: **NAV-SB1A-830-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959462
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1A-830-U-T4FT-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV FORWARD
THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

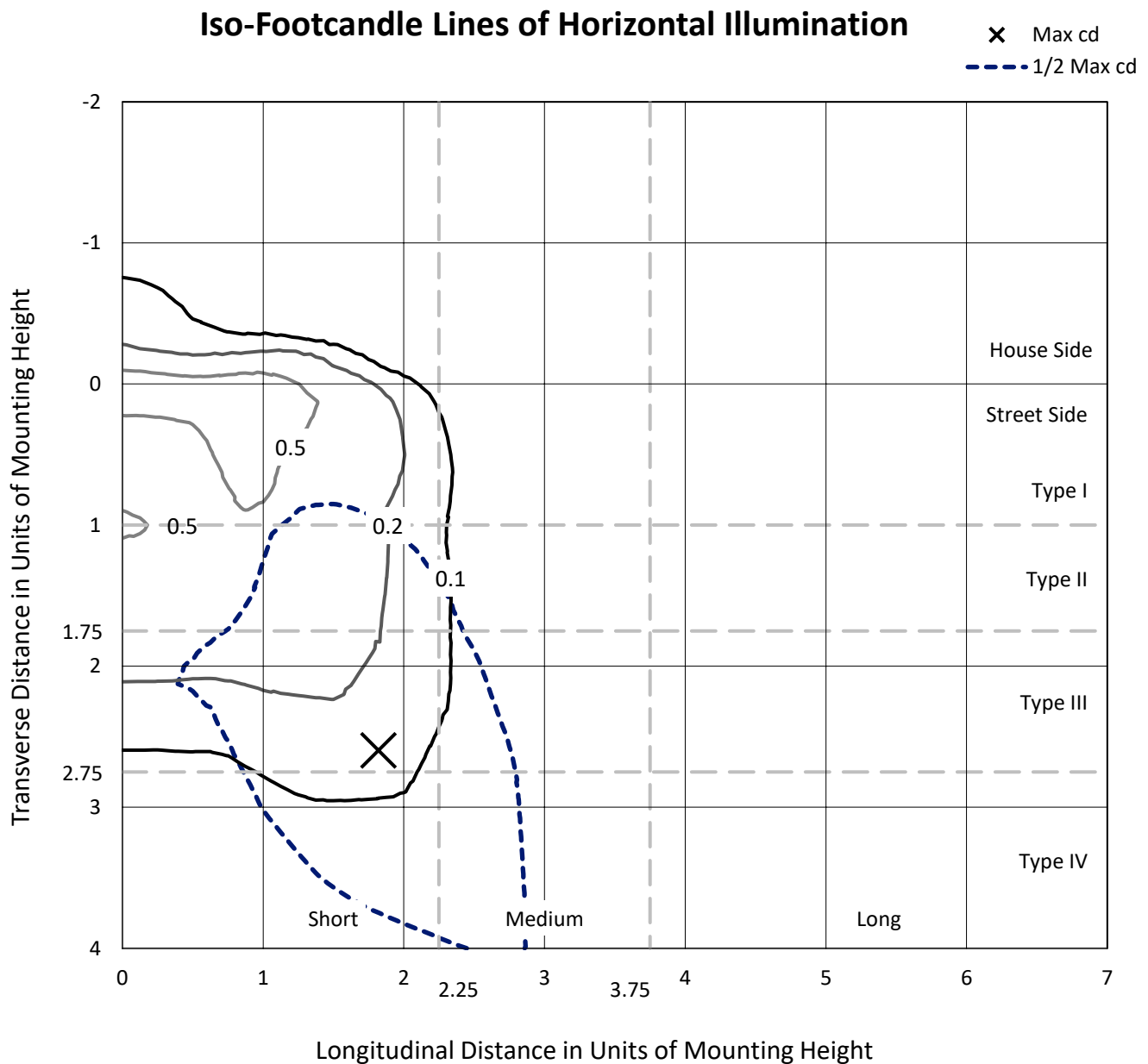
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3129.3 lumens
Efficiency: N/A
Efficacy: 101.3 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



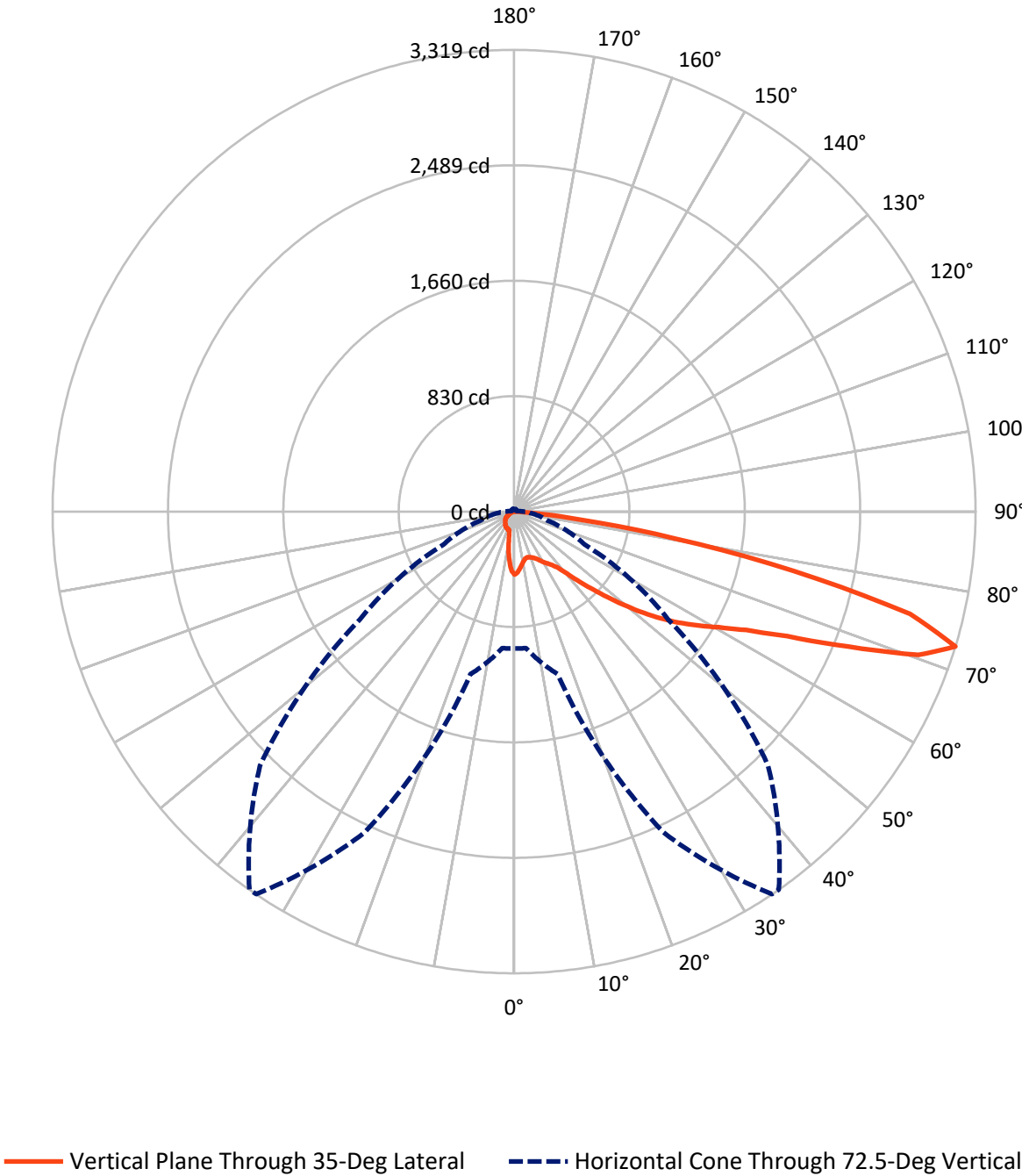
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Based on 25 foot mounting height. Maximum calculated value = 0.7 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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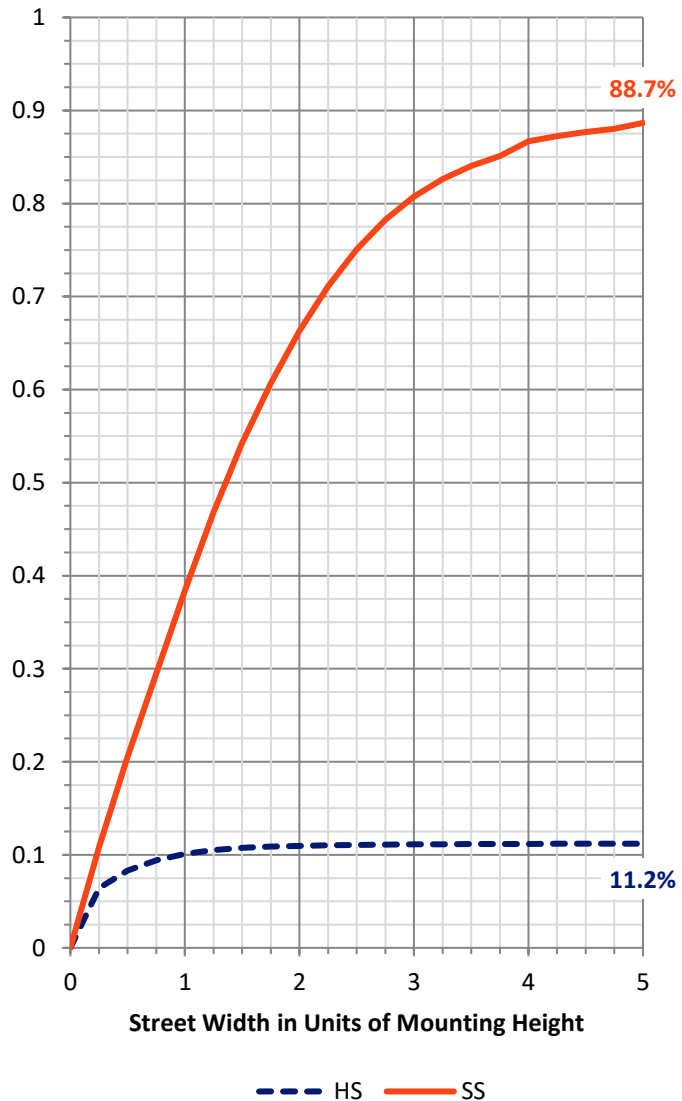
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	352.2	0.0	352.2
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	2777.1	0.0	2777.1
	% Fixture	88.7	0.0	88.7
Total	Lumens	3129.3	0.0	3129.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.3	1.2
10°-20°	87.2	2.8
20°-30°	141.6	4.5
30°-40°	236.3	7.6
40°-50°	447.1	14.3
50°-60°	710.5	22.7
60°-70°	878.9	28.1
70°-80°	546.3	17.5
80°-90°	44.1	1.4
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°	3129.3	100.0
0°-180°	3129.3	100.0

Coefficient of Utilization



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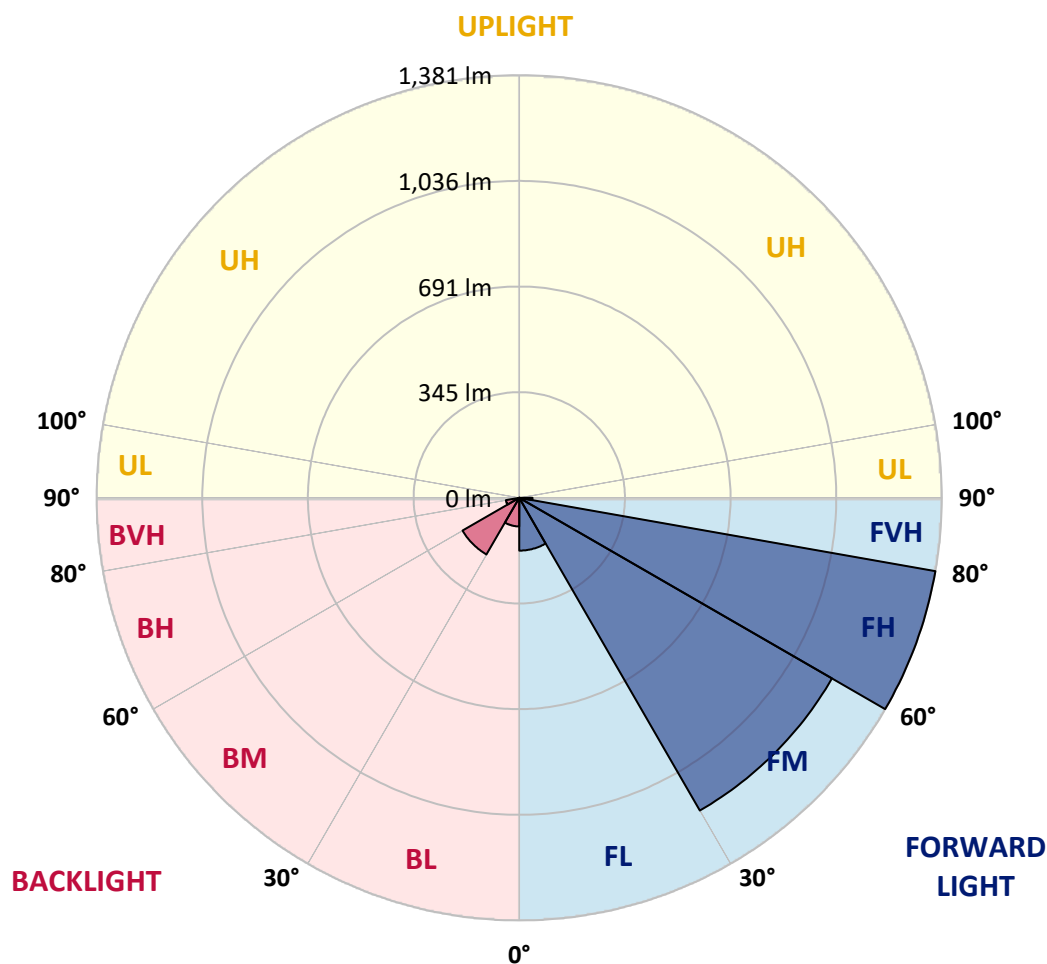
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	172.5	5.5			
FM	(30°-60°)	1180.1	37.7			
FH	(60°-80°)	1381.0	44.1			G1/1800
FVH	(80°-90°)	43.5	1.4			G1/100
BL	(0°-30°)	93.6	3.0	B0/110		
BM	(30°-60°)	213.8	6.8	B0/220		
BH	(60°-80°)	44.2	1.4	B0/110		G0/110
BVH	(80°-90°)	0.6	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°	34°	35°	45°	55°	65°	75°	85°
0°	453.6	453.6	453.6	453.6	453.6	453.6	453.6	453.6	453.6	453.6	453.6
2.5°	433.4	437.1	437.7	438.9	438.9	440.2	442.5	445.8	451.0	453.8	455.6
5°	399.4	402.2	405.6	408.4	413.7	414.3	423.3	432.0	444.1	453.4	459.7
7.5°	365.3	368.5	373.1	379.8	386.6	388.7	402.2	416.9	436.1	453.4	464.1
10°	341.2	341.4	345.5	352.2	363.2	365.7	382.2	403.1	427.2	450.6	468.2
12.5°	327.7	329.2	331.1	336.1	346.7	348.3	365.9	390.5	418.2	449.0	473.0
15°	327.7	328.8	329.9	332.5	340.9	342.3	357.9	382.4	413.7	449.7	480.8
17.5°	331.1	332.9	332.0	335.0	344.0	344.8	358.6	380.2	413.4	454.0	492.7
20°	339.4	340.7	338.9	340.7	349.6	351.5	365.7	384.5	417.3	461.6	507.7
22.5°	352.4	353.1	348.8	350.1	359.3	361.6	378.1	396.9	426.7	473.8	527.6
25°	368.9	370.3	363.7	365.3	374.0	376.7	395.8	415.4	441.6	490.5	553.1
27.5°	388.0	388.7	382.9	382.7	393.9	397.8	417.1	438.4	461.6	511.6	585.2
30°	409.8	411.8	406.3	405.4	419.6	422.8	441.9	466.6	490.9	543.1	630.8
32.5°	426.9	428.6	425.4	427.6	442.1	444.6	471.9	506.6	537.0	588.1	692.9
35°	451.7	452.6	445.3	449.5	466.0	472.3	512.9	562.4	595.0	644.5	774.1
37.5°	541.4	541.4	510.1	489.7	505.6	511.4	569.1	632.8	666.6	720.2	876.4
40°	665.4	663.4	617.8	575.9	573.9	585.2	649.1	721.6	759.0	811.0	991.5
42.5°	797.8	794.5	732.4	691.1	684.2	688.1	741.6	831.0	869.0	921.8	1115.3
45°	915.1	914.2	857.3	801.9	789.5	801.9	856.9	958.9	986.2	1041.7	1238.9
47.5°	1013.5	1013.5	972.0	935.7	929.4	936.6	1013.0	1100.8	1098.3	1169.4	1359.3
50°	1126.8	1125.9	1086.4	1070.8	1077.5	1087.7	1192.8	1250.3	1214.3	1294.8	1466.8
52.5°	1206.1	1211.6	1198.0	1195.6	1229.5	1247.3	1375.3	1396.7	1318.3	1413.8	1547.2
55°	1268.9	1275.3	1290.9	1308.6	1373.9	1397.3	1552.1	1535.3	1405.1	1517.0	1593.6
57.5°	1357.9	1348.7	1372.8	1407.6	1513.3	1541.5	1723.3	1666.2	1475.1	1600.7	1598.6
60°	1465.9	1467.3	1471.4	1515.4	1652.5	1688.8	1892.2	1790.1	1520.0	1652.1	1542.7
62.5°	1595.6	1597.8	1606.2	1673.8	1839.4	1873.6	2071.9	1891.4	1540.7	1637.6	1398.2
65°	1586.7	1595.4	1690.1	1921.5	2123.5	2157.2	2281.8	1962.6	1509.4	1505.5	1138.5
67.5°	1445.5	1459.7	1618.2	2217.3	2551.8	2589.5	2535.3	1976.5	1374.8	1170.8	742.7
70°	1260.2	1265.3	1455.8	2483.3	3047.7	3085.9	2762.3	1822.7	1043.2	653.0	332.7
72.5°	984.1	985.2	1208.9	2545.0	3317.0	3319.1	2584.1	1353.1	561.1	250.8	115.5
75°	703.0	696.2	809.6	2063.8	2918.3	2941.6	1937.4	634.7	214.4	118.6	57.5
77.5°	377.0	384.5	458.2	1224.0	2016.0	2055.8	1057.1	183.0	109.2	80.7	38.0
80°	116.4	122.9	187.8	560.4	1141.8	1165.9	391.9	81.4	76.2	57.5	25.0
82.5°	36.7	38.0	87.6	235.4	474.0	484.9	113.5	46.1	52.1	38.0	14.7
85°	10.6	10.8	38.9	87.8	117.2	119.4	31.9	17.8	29.8	23.6	7.6
87.5°	1.1	3.7	14.7	14.7	10.4	10.0	3.5	3.9	8.5	3.0	1.3
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°	453.6	453.6	453.6	453.6	453.6	453.6	453.6	453.6	453.6	453.6	453.6
2.5°	454.5	454.7	451.7	446.7	441.2	436.5	430.8	426.3	423.0	422.1	423.7
5°	457.7	456.0	447.6	432.2	413.9	398.0	380.4	366.4	357.2	353.3	354.8
7.5°	462.5	457.9	439.3	409.1	374.0	342.8	311.2	286.6	271.0	263.2	264.3
10°	466.6	457.5	425.6	375.6	322.0	274.7	232.1	202.4	185.9	178.1	178.4
12.5°	470.5	457.3	407.6	335.9	263.2	205.4	165.7	151.1	146.5	144.9	144.4
15°	477.9	457.9	385.2	290.5	204.8	155.2	140.8	140.5	141.4	141.0	140.8
17.5°	487.9	458.6	359.8	242.4	158.0	136.8	136.2	138.3	139.6	139.0	138.7
20°	501.0	461.4	332.7	194.6	135.7	132.3	133.9	135.7	136.8	135.7	135.5
22.5°	519.4	466.2	303.1	156.4	128.6	129.6	130.9	132.9	134.2	132.5	132.3
25°	541.8	473.8	274.0	136.0	125.2	126.4	128.4	130.7	132.1	130.5	130.3
27.5°	570.9	485.8	247.2	131.4	121.8	122.5	125.5	128.8	130.7	128.6	128.6
30°	613.2	505.8	224.1	133.5	119.7	118.1	122.2	127.0	129.0	127.3	127.0
32.5°	669.1	534.0	209.8	136.6	118.8	113.1	117.0	123.1	126.6	125.5	125.5
35°	742.4	576.9	204.3	140.3	118.1	107.7	110.5	117.2	123.1	124.2	124.2
37.5°	831.4	636.5	205.9	142.0	116.0	103.4	104.8	110.5	118.3	122.0	122.9
40°	932.5	706.0	215.0	140.3	113.8	99.7	99.9	104.3	111.2	116.7	118.6
42.5°	1036.9	787.2	232.1	134.4	111.6	96.6	95.8	98.8	103.4	107.3	109.0
45°	1136.1	870.6	248.8	126.1	109.2	93.3	91.7	92.9	93.8	95.4	96.4
47.5°	1222.8	929.4	244.0	118.6	105.7	89.7	86.9	86.4	83.7	83.4	83.2
50°	1282.7	942.2	216.7	111.0	100.7	85.5	81.2	78.4	73.6	71.3	71.5
52.5°	1301.8	891.5	177.0	103.4	92.5	80.1	73.8	69.5	63.6	61.5	61.2
55°	1276.4	792.2	141.4	94.2	81.0	72.7	65.8	60.1	55.2	52.8	52.8
57.5°	1214.8	665.8	111.9	83.4	68.8	64.5	57.5	51.9	47.7	45.2	44.7
60°	1112.5	528.8	88.5	70.6	58.7	55.5	48.4	44.7	41.0	38.0	37.4
62.5°	957.4	377.4	69.5	56.0	49.1	45.4	41.3	38.5	34.1	30.0	29.3
65°	747.0	230.9	53.6	41.0	39.5	37.6	35.1	32.6	27.3	23.2	22.4
67.5°	471.2	109.4	38.3	31.0	31.2	30.2	29.1	27.1	23.2	19.5	19.1
70°	207.6	53.0	25.2	23.6	23.2	23.2	24.1	23.4	19.7	16.3	15.6
72.5°	70.6	28.4	18.8	17.8	16.7	16.5	20.2	19.5	15.8	12.6	11.9
75°	36.9	19.1	13.7	12.8	10.0	12.2	16.1	15.2	11.3	8.3	7.6
77.5°	24.1	13.5	9.4	8.3	5.7	8.0	11.9	10.6	6.7	4.1	3.7
80°	15.2	8.9	5.5	3.9	2.8	4.4	6.5	4.6	2.6	0.9	0.7
82.5°	8.0	4.6	2.0	1.3	1.1	1.3	1.6	1.1	0.4	0.0	0.0
85°	3.2	1.6	0.7	0.4	0.2	0.0	0.4	0.2	0.0	0.0	0.0
87.5°	1.1	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)