

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: P959443

Luminaire Tested: **NAV-SB1A-830-U-SL3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959443
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1A-830-U-SL3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

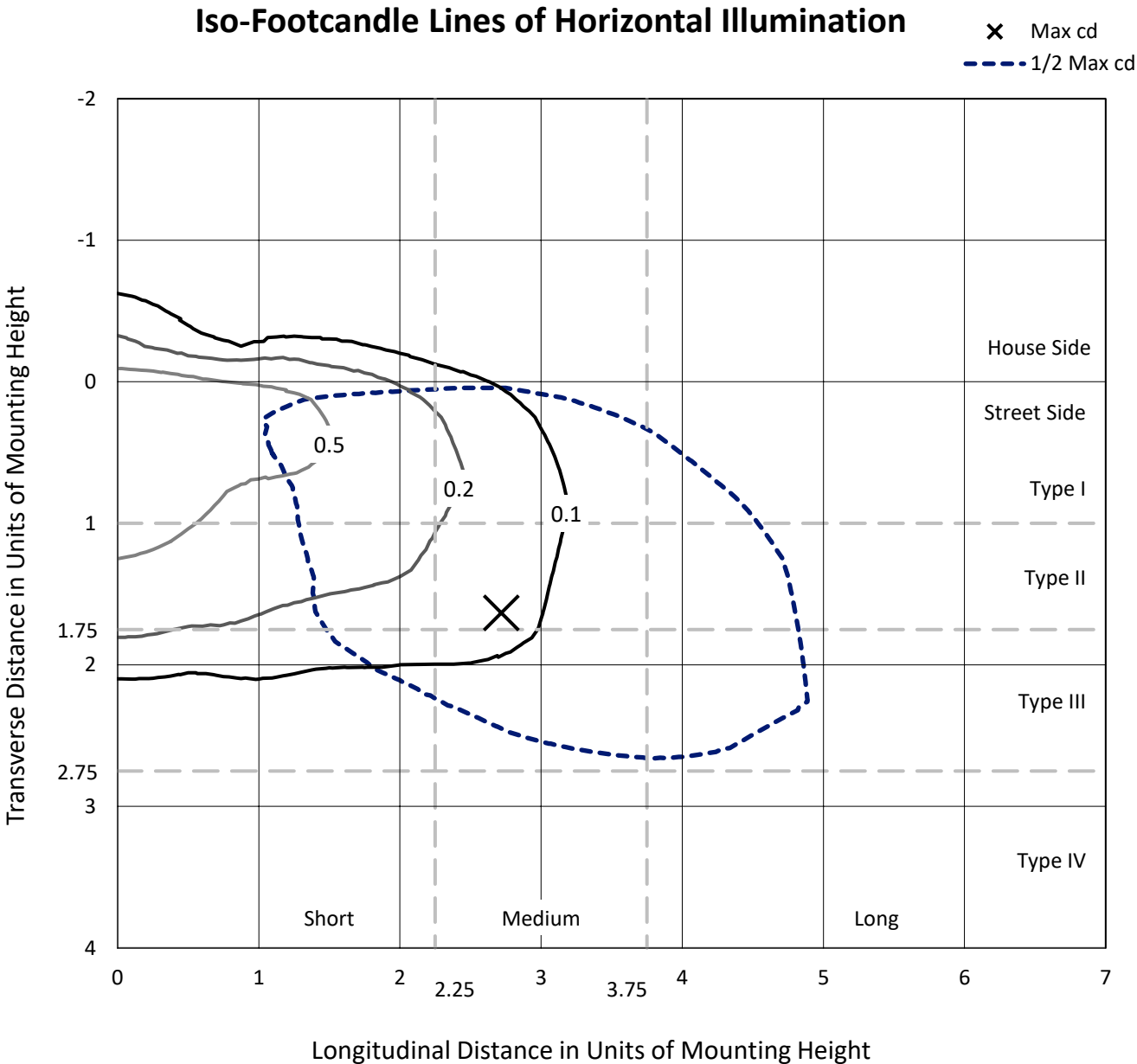
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3328.2 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
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



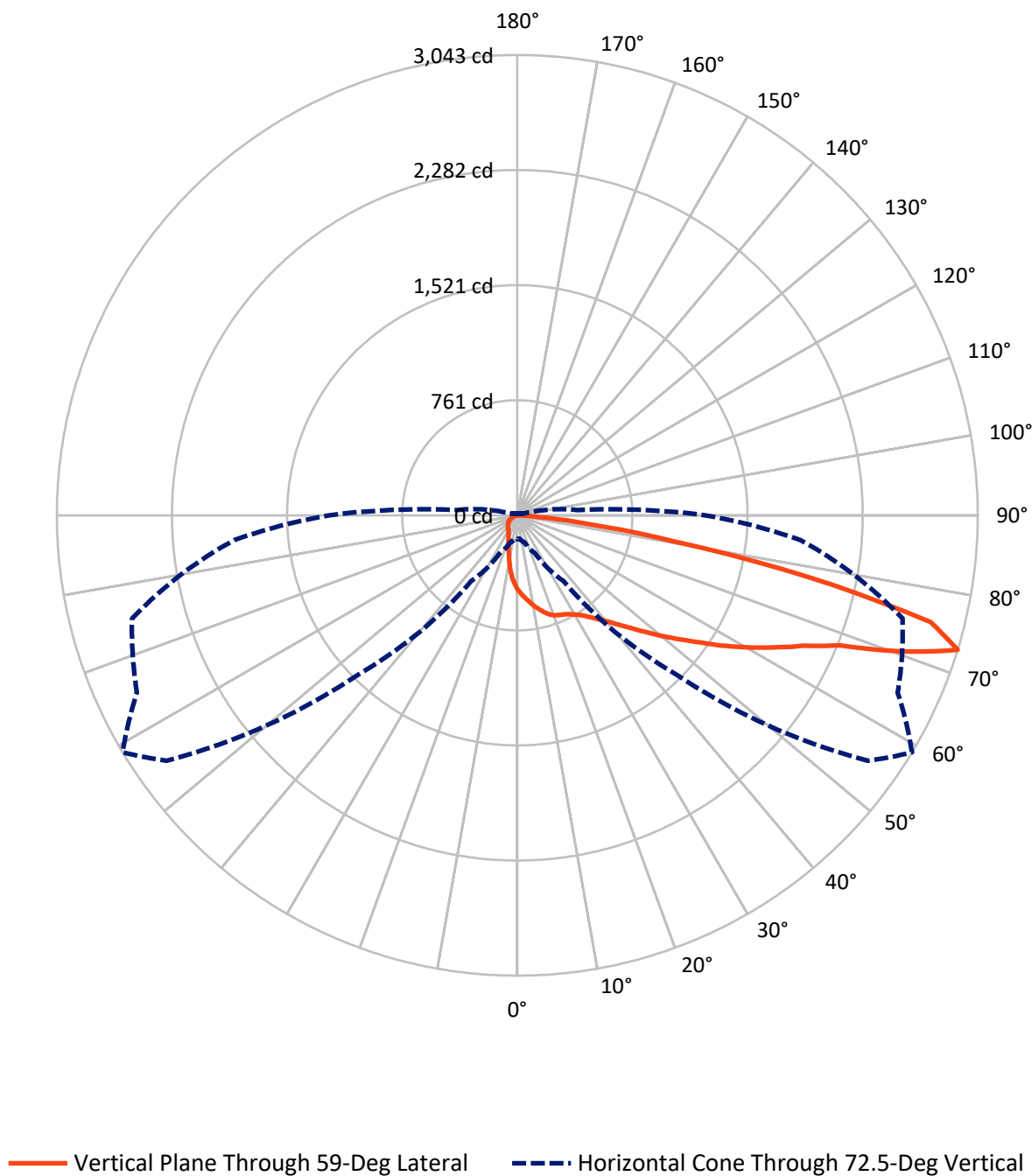
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Based on 25 foot mounting height. Maximum calculated value = 1 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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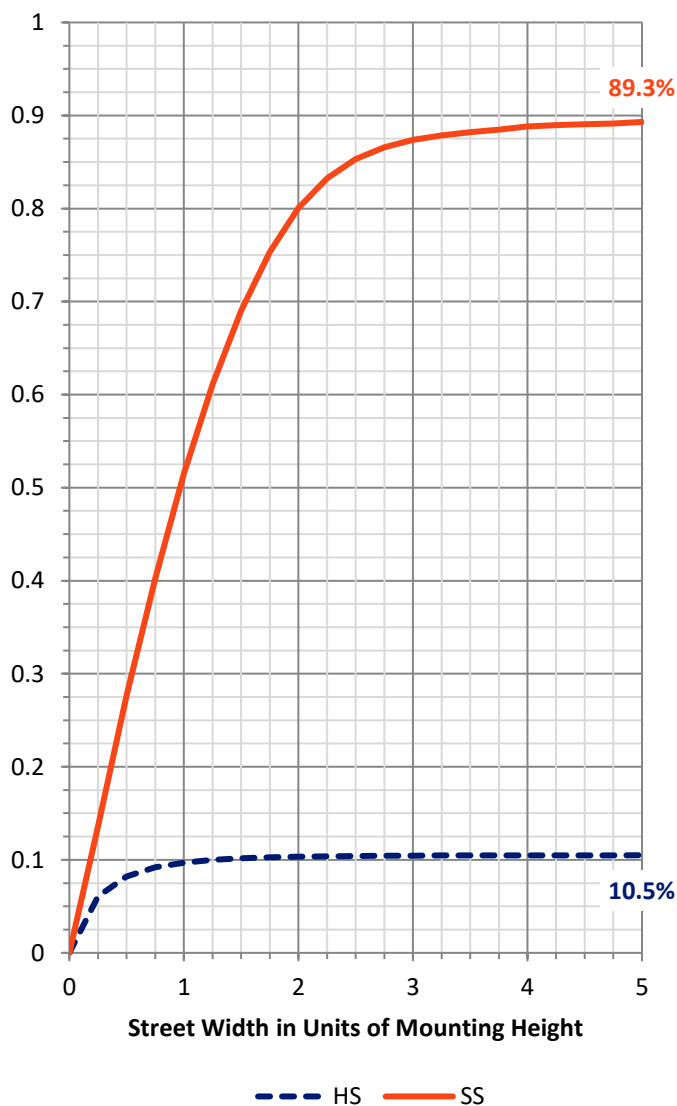
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	351.5	0.0	351.5
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	2976.7	0.0	2976.7
	% Fixture	89.4	0.0	89.4
Total	Lumens	3328.2	0.0	3328.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.5	1.3
10°-20°	118.3	3.6
20°-30°	187.4	5.6
30°-40°	300.8	9.0
40°-50°	480.4	14.4
50°-60°	695.6	20.9
60°-70°	825.5	24.8
70°-80°	612.8	18.4
80°-90°	62.7	1.9
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°	3328.2	100.0
0°-180°	3328.2	100.0

Coefficient of Utilization



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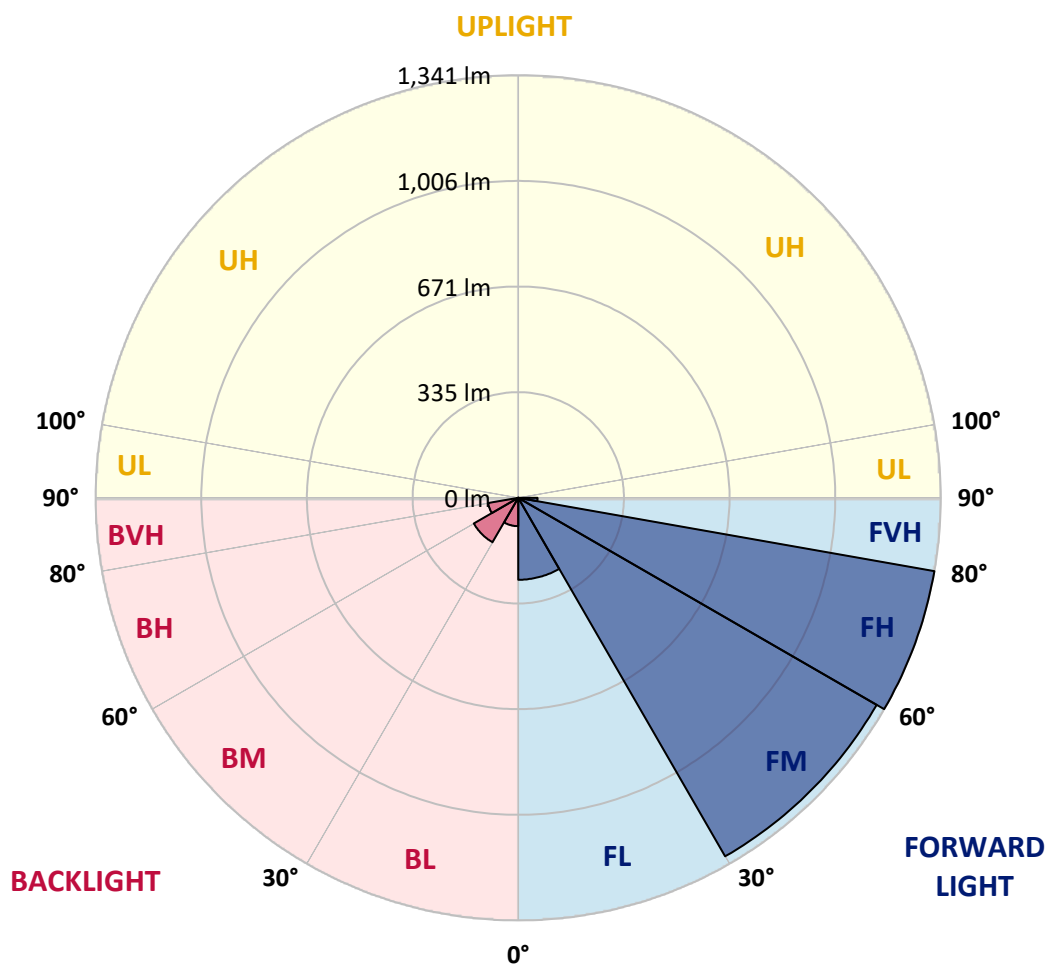
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	260.2	7.8			
FM	(30°-60°)	1313.9	39.5			
FH	(60°-80°)	1341.4	40.3			G1/1800
FVH	(80°-90°)	61.1	1.8			G1/100
BL	(0°-30°)	90.0	2.7	B0/110		
BM	(30°-60°)	163.0	4.9	B0/220		
BH	(60°-80°)	96.9	2.9	B0/110		G0/110
BVH	(80°-90°)	1.6	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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	492.2	492.2	492.2	492.2	492.2	492.2	492.2	492.2	492.2	492.2	492.2
2.5°	546.0	543.0	543.5	538.2	534.5	530.6	523.1	521.9	516.5	507.0	497.1
5°	593.7	591.6	589.9	584.0	576.5	566.9	554.1	549.5	539.6	523.1	503.9
7.5°	628.4	626.0	626.9	621.0	614.9	604.2	586.7	578.2	565.0	539.8	510.9
10°	635.1	633.9	639.5	641.6	641.6	634.9	617.8	609.3	589.9	557.8	518.0
12.5°	597.4	597.6	611.6	628.6	650.8	657.1	645.5	636.4	617.4	576.9	527.2
15°	553.2	553.4	567.1	588.9	625.1	661.4	670.6	664.7	644.9	597.6	537.8
17.5°	526.7	525.6	534.7	552.6	590.6	641.6	685.7	689.7	673.6	620.3	549.5
20°	523.1	521.0	525.8	534.7	561.9	616.8	687.5	706.0	703.2	646.3	563.0
22.5°	545.6	542.5	540.0	540.4	552.0	596.2	683.2	715.1	733.6	677.3	581.5
25°	590.4	585.6	577.1	566.2	563.9	591.9	680.1	725.1	761.8	717.1	605.8
27.5°	645.1	638.4	622.1	605.8	591.9	604.0	686.4	741.0	793.8	763.3	634.1
30°	705.3	697.1	680.8	650.0	627.7	631.2	701.4	761.8	834.6	815.7	669.4
32.5°	793.8	774.6	746.2	699.0	669.6	660.5	724.0	788.3	885.2	885.5	720.8
35°	869.6	859.0	830.2	771.6	711.5	699.5	753.8	825.7	955.4	977.7	792.4
37.5°	919.3	904.8	879.6	835.5	776.1	739.4	793.6	871.6	1029.7	1083.0	880.9
40°	975.0	960.6	927.2	885.7	851.4	808.1	843.8	924.3	1111.2	1190.9	982.0
42.5°	1042.1	1023.5	983.9	939.1	903.2	898.5	909.4	990.1	1194.8	1308.3	1087.1
45°	1120.9	1103.4	1058.0	1001.5	970.0	961.4	991.9	1066.9	1288.1	1436.9	1193.3
47.5°	1194.8	1174.4	1125.6	1074.1	1039.0	1012.4	1079.7	1157.5	1393.7	1571.4	1293.8
50°	1257.7	1236.8	1192.1	1137.0	1113.4	1078.4	1165.9	1258.5	1498.4	1708.1	1385.4
52.5°	1300.7	1282.2	1229.6	1192.3	1176.2	1158.6	1267.0	1365.6	1602.7	1833.2	1476.0
55°	1290.9	1274.4	1228.2	1225.5	1224.5	1242.9	1387.8	1487.1	1709.0	1951.7	1566.2
57.5°	1259.8	1241.2	1183.4	1223.1	1261.6	1318.0	1518.6	1630.8	1825.4	2063.3	1653.1
60°	1168.4	1161.8	1126.7	1218.5	1277.3	1391.7	1668.1	1775.0	1951.5	2161.6	1730.3
62.5°	974.8	980.4	980.2	1228.2	1305.4	1475.6	1803.9	1921.1	2074.7	2256.1	1799.0
65°	729.9	749.4	774.4	1142.1	1343.3	1625.3	1966.3	2079.4	2199.9	2366.0	1868.7
67.5°	490.5	506.0	523.1	937.0	1230.7	1782.7	2235.9	2296.5	2349.7	2488.0	1947.1
70°	280.7	285.8	309.4	585.2	948.6	1739.2	2675.0	2697.0	2573.4	2638.1	2004.3
72.5°	157.3	155.6	186.9	277.7	530.2	1489.3	2828.9	3042.9	2773.4	2635.7	1876.7
75°	105.2	105.4	128.6	175.2	206.6	1042.5	2437.8	2821.5	2653.5	2337.1	1533.4
77.5°	71.8	74.1	94.5	135.4	95.6	508.7	1612.7	1976.4	2148.3	1804.8	1058.6
80°	31.1	31.3	62.3	97.2	64.6	161.8	836.1	1058.8	1347.4	1013.4	419.3
82.5°	16.1	18.2	39.8	62.8	40.6	56.7	395.0	462.6	565.4	297.5	86.0
85°	5.6	6.8	24.6	30.9	20.4	20.2	137.6	140.1	119.7	44.8	23.7
87.5°	0.0	1.1	9.5	7.6	2.6	2.4	16.3	13.7	10.9	6.3	7.8
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°	492.2	492.2	492.2	492.2	492.2	492.2	492.2	492.2	492.2	492.2	492.2
2.5°	492.6	486.8	477.1	465.5	451.7	444.3	433.7	427.2	421.3	421.6	426.3
5°	493.2	483.5	459.1	433.3	404.6	383.6	360.1	343.6	331.0	327.9	332.4
7.5°	495.2	478.7	438.9	395.9	348.1	312.7	280.3	259.8	248.4	245.3	248.4
10°	497.8	473.4	416.2	350.2	291.0	248.4	221.4	208.4	203.2	199.3	201.6
12.5°	500.0	468.0	387.4	303.1	240.1	206.8	186.4	175.6	171.0	168.2	169.7
15°	503.7	460.8	356.4	259.2	205.8	178.7	159.3	151.2	150.0	150.4	151.0
17.5°	507.4	453.9	321.5	224.9	180.6	153.9	142.1	140.8	142.6	144.3	144.9
20°	511.5	443.9	286.4	199.1	157.3	136.6	133.7	134.5	135.4	138.4	139.3
22.5°	517.6	431.3	255.5	177.1	138.0	128.4	126.9	127.5	128.2	131.2	132.1
25°	526.2	417.9	230.5	156.9	125.8	121.7	120.1	120.1	121.1	123.8	124.9
27.5°	535.4	398.7	210.3	138.2	118.6	114.3	111.7	111.7	112.7	116.0	117.4
30°	545.6	381.3	194.4	124.3	112.5	106.9	103.4	102.6	103.8	108.0	109.1
32.5°	564.1	370.0	183.2	117.8	107.1	100.1	95.4	93.0	94.3	99.1	100.3
35°	592.1	367.5	175.4	114.5	101.9	94.1	87.3	83.6	84.8	89.8	91.2
37.5°	624.9	372.9	167.8	110.2	96.9	88.3	79.3	74.5	76.3	80.9	82.1
40°	672.1	395.4	161.8	106.9	91.9	81.3	71.2	66.5	69.3	73.2	73.9
42.5°	729.0	435.6	160.3	103.8	85.8	73.9	63.9	60.4	62.6	66.3	66.9
45°	799.6	487.0	167.3	99.9	79.1	66.7	58.0	56.1	56.7	60.4	62.1
47.5°	875.5	539.6	186.4	96.5	73.2	60.9	53.4	51.8	51.2	54.7	56.9
50°	952.1	586.2	209.0	93.9	69.1	56.1	50.0	47.8	46.7	48.9	49.7
52.5°	1028.0	623.4	223.8	89.5	65.0	51.2	46.9	43.7	41.7	42.8	43.7
55°	1104.9	656.0	224.7	83.0	61.1	48.3	43.9	40.2	37.8	37.8	38.2
57.5°	1176.8	684.7	211.9	74.3	55.7	45.4	39.8	36.7	34.1	33.2	33.4
60°	1240.5	706.0	190.5	64.6	50.8	41.7	35.7	33.2	30.0	28.3	27.8
62.5°	1297.2	716.4	161.4	54.5	45.0	37.4	31.8	29.1	24.8	22.5	22.3
65°	1345.2	705.7	131.0	45.2	40.0	32.6	27.2	24.6	19.8	17.1	17.1
67.5°	1392.8	657.1	99.1	38.0	34.7	27.4	22.3	20.0	16.5	14.3	14.3
70°	1398.9	554.7	69.3	32.0	28.9	21.1	18.0	16.5	13.4	11.5	11.3
72.5°	1245.3	399.1	42.1	26.0	22.5	15.0	14.3	13.0	10.0	8.7	8.5
75°	995.4	244.7	24.8	19.6	15.0	10.7	10.7	9.3	6.8	5.6	5.6
77.5°	688.0	128.0	14.6	12.6	8.9	6.3	7.0	5.6	3.3	2.6	2.6
80°	275.5	48.7	7.8	5.8	4.1	2.9	2.4	1.3	0.6	0.4	0.6
82.5°	54.9	12.8	2.6	1.5	1.5	0.6	0.0	0.0	0.0	0.0	0.0
85°	14.1	2.9	0.6	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.3	0.0	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)