

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: P959421

Luminaire Tested: **NAV-SB1A-827-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959421
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1A-827-U-T2-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE II OPTICS WITH
HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

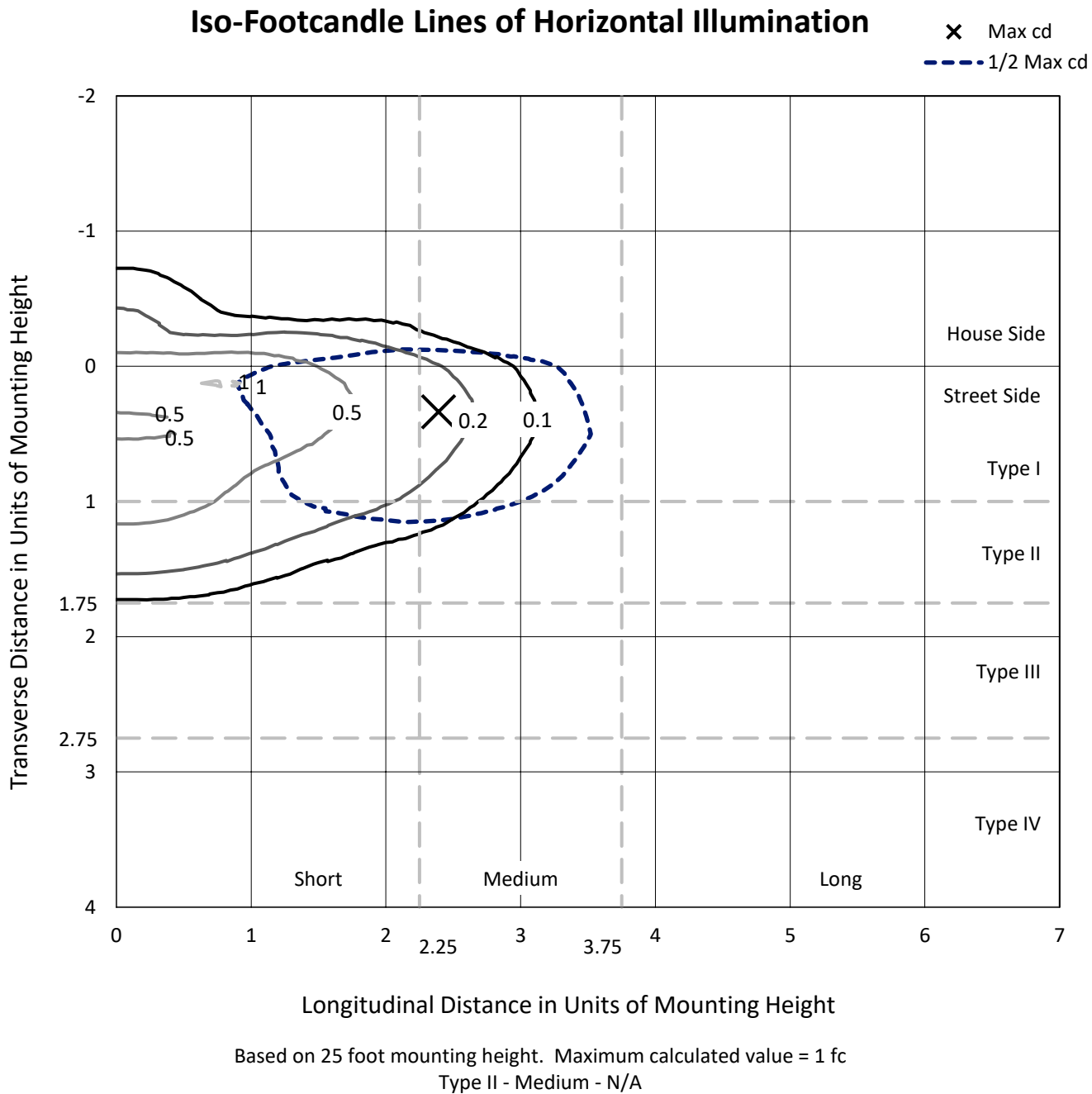
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2920.2 lumens
Efficiency: N/A
Efficacy: 94.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
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

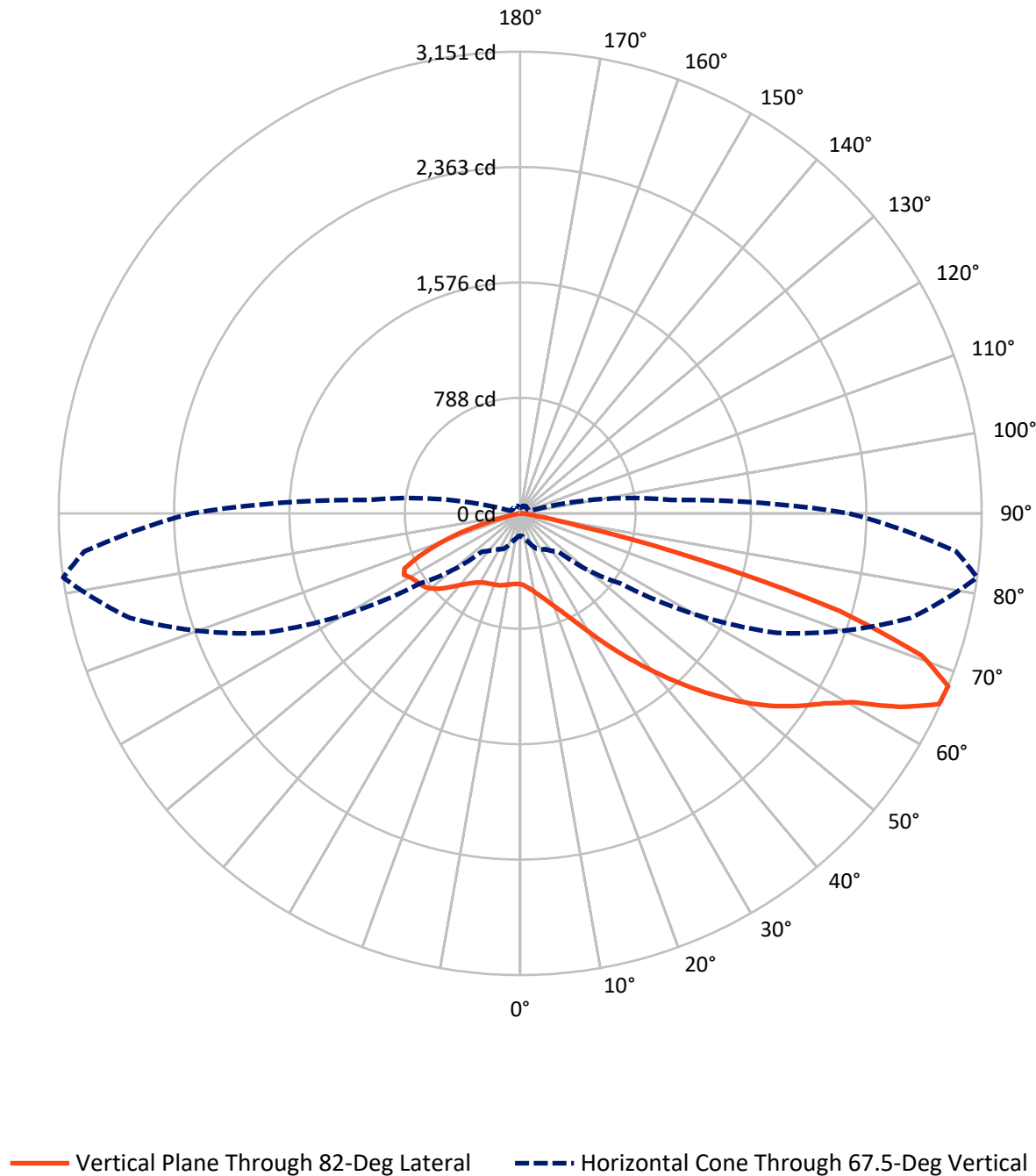


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Luminous Intensity Polar Plot



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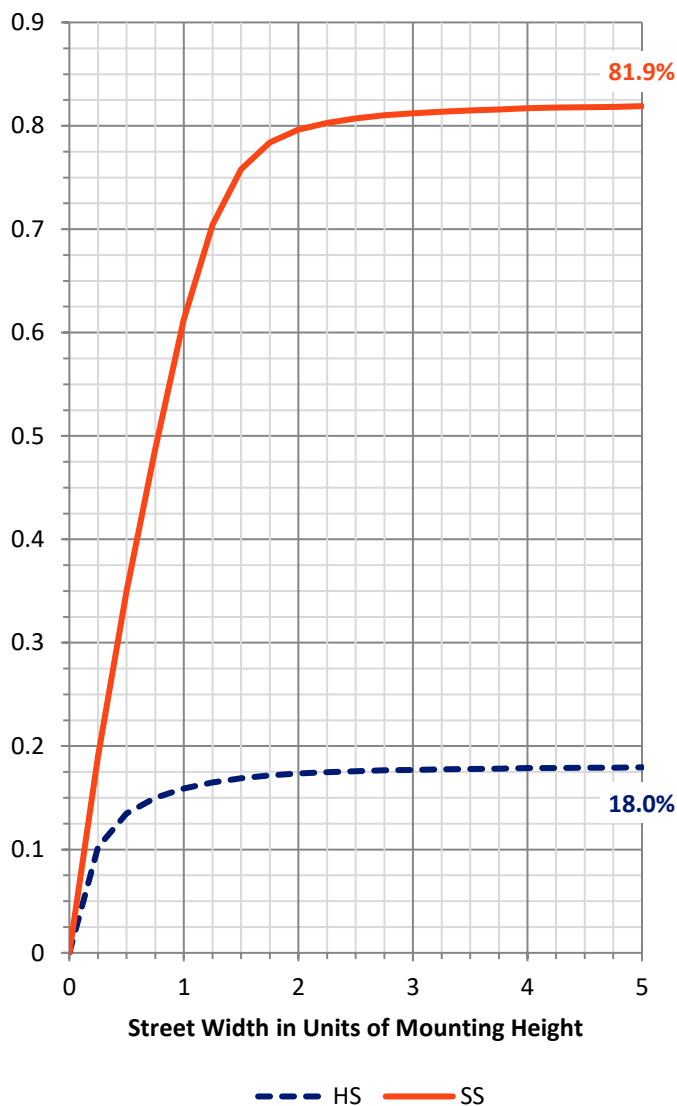
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	529.0	0.0	529.0
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	2391.2	0.0	2391.2
	% Fixture	81.9	0.0	81.9
Total	Lumens	2920.2	0.0	2920.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.1	1.5
10°-20°	112.0	3.8
20°-30°	179.4	6.1
30°-40°	317.2	10.9
40°-50°	555.8	19.0
50°-60°	741.3	25.4
60°-70°	690.1	23.6
70°-80°	264.8	9.1
80°-90°	16.5	0.6
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°	2920.2	100.0
0°-180°	2920.2	100.0

Coefficient of Utilization



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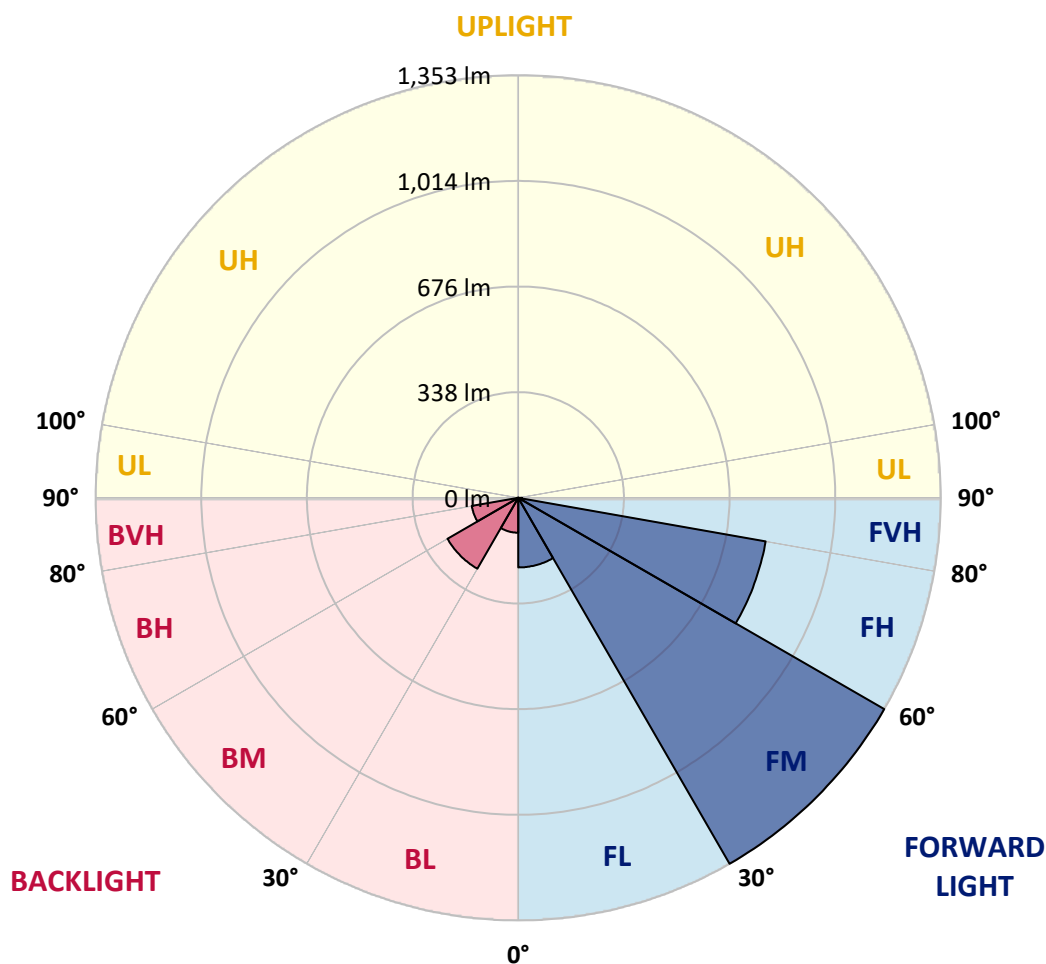
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	222.8	7.6			
FM	(30°-60°)	1352.5	46.3			
FH	(60°-80°)	804.0	27.5			G1/1800
FVH	(80°-90°)	12.0	0.4			G1/100
BL	(0°-30°)	111.7	3.8	B1/500		
BM	(30°-60°)	261.8	9.0	B1/1000		
BH	(60°-80°)	151.0	5.2	B1/500		G1/500
BVH	(80°-90°)	4.5	0.2			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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	483.8	483.8	483.8	483.8	483.8	483.8	483.8	483.8	483.8	483.8	483.8
2.5°	511.4	514.2	512.6	511.8	510.2	508.2	506.5	501.2	495.8	492.2	491.0
5°	521.6	524.6	524.4	525.2	526.2	526.8	526.4	520.6	512.8	506.7	503.2
7.5°	512.8	516.2	518.9	523.1	530.4	538.2	542.0	540.8	532.8	524.4	520.0
10°	487.8	491.4	497.8	507.8	523.3	540.2	554.2	560.8	555.7	546.4	540.4
12.5°	442.0	445.6	458.4	479.8	505.8	535.0	562.0	579.4	580.7	571.4	564.3
15°	390.4	394.0	407.6	434.6	474.4	521.2	566.2	599.2	610.4	602.4	593.8
17.5°	358.4	361.6	372.0	393.6	435.0	493.4	564.8	620.2	645.6	639.4	629.0
20°	348.8	351.6	356.4	371.5	406.0	464.6	555.0	640.0	683.8	680.2	668.6
22.5°	359.1	361.6	363.1	369.8	391.4	445.8	542.8	660.2	727.9	728.3	714.2
25°	382.8	385.4	383.7	387.9	397.4	439.8	538.2	684.0	783.4	788.0	772.0
27.5°	422.0	422.2	418.2	418.0	419.4	448.6	543.0	709.4	853.4	862.0	842.2
30°	500.4	497.2	481.9	465.2	457.7	475.2	556.6	739.4	936.0	951.4	926.6
32.5°	621.3	616.6	588.5	548.8	508.8	517.8	580.7	773.7	1026.0	1053.8	1023.5
35°	752.5	751.2	721.8	662.7	592.9	578.6	620.0	818.7	1124.2	1168.4	1132.4
37.5°	874.4	873.8	857.0	787.4	702.4	663.4	683.1	877.6	1229.3	1293.2	1250.8
40°	985.8	987.8	970.9	908.7	823.1	772.0	768.9	950.3	1346.2	1429.3	1378.8
42.5°	1082.2	1084.2	1067.2	1021.2	942.4	892.3	874.2	1039.5	1460.4	1575.4	1515.7
45°	1147.5	1160.6	1158.0	1121.2	1064.7	1012.8	1000.8	1151.3	1590.5	1730.3	1660.3
47.5°	1166.0	1178.0	1197.0	1202.0	1167.5	1116.4	1130.7	1286.1	1722.1	1885.5	1805.8
50°	1120.4	1131.6	1170.9	1223.2	1247.2	1231.4	1257.1	1430.5	1856.9	2040.3	1948.6
52.5°	1030.4	1041.8	1091.4	1174.2	1272.0	1321.6	1383.9	1572.9	1987.5	2186.8	2083.8
55°	900.3	912.2	976.0	1069.8	1224.7	1358.8	1489.6	1715.0	2107.1	2318.7	2205.7
57.5°	723.2	732.1	798.3	929.5	1105.7	1321.8	1567.6	1870.1	2219.8	2448.1	2326.6
60°	471.4	479.2	556.1	702.4	908.5	1198.2	1583.2	2043.2	2369.5	2616.5	2489.5
62.5°	313.4	318.8	364.4	471.8	639.8	960.8	1492.1	2181.3	2589.0	2909.7	2768.9
65°	215.0	220.4	266.0	340.8	413.4	635.6	1230.4	2163.1	2787.9	3142.3	2976.1
67.5°	153.4	157.8	196.6	267.2	299.2	369.2	834.0	1929.3	2759.3	3151.3	2987.3
70°	110.0	112.4	144.4	208.2	237.8	221.8	463.8	1475.5	2415.9	2909.9	2759.7
72.5°	77.0	77.8	100.2	158.6	191.6	161.8	220.8	983.8	1827.3	2283.9	2139.5
75°	52.2	53.2	67.4	116.2	153.6	123.6	116.8	527.5	1072.7	1264.2	1133.2
77.5°	32.0	32.4	43.6	79.4	115.0	94.2	75.2	223.4	415.0	407.4	347.4
80°	18.0	18.0	27.8	49.4	78.4	60.8	52.8	95.0	131.4	115.4	101.8
82.5°	10.0	10.4	20.2	30.6	52.0	36.0	29.0	44.0	56.8	50.2	43.8
85°	4.2	4.6	12.4	14.6	24.8	17.8	11.8	18.6	21.0	18.8	13.6
87.5°	0.4	0.6	3.8	2.8	3.0	3.6	1.6	3.6	3.0	3.0	2.2
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°	483.8	483.8	483.8	483.8	483.8	483.8	483.8	483.8	483.8	483.8	483.8
2.5°	487.0	483.8	475.8	466.6	454.4	448.4	440.4	435.0	430.4	430.8	426.6
5°	496.4	488.4	470.6	448.2	420.5	400.8	379.7	365.2	353.4	350.9	345.2
7.5°	509.4	496.8	465.5	425.4	378.4	343.0	311.2	290.8	276.2	271.6	267.0
10°	526.2	508.0	459.0	396.6	329.0	283.8	249.8	233.8	224.0	220.6	218.0
12.5°	545.8	520.8	450.4	361.4	278.2	234.6	213.0	205.0	201.8	200.8	200.2
15°	570.4	536.8	437.4	319.8	235.0	204.6	195.4	194.2	194.6	194.2	194.0
17.5°	599.6	554.2	416.0	276.9	206.0	189.2	185.8	186.7	187.8	187.6	187.2
20°	631.6	571.4	389.0	238.8	186.2	178.2	176.4	177.2	178.0	177.6	177.4
22.5°	668.0	590.0	358.9	209.2	173.0	168.2	166.0	166.4	166.4	165.4	165.0
25°	711.5	610.4	327.4	188.2	163.0	159.2	156.6	155.8	154.6	152.0	151.6
27.5°	763.4	632.0	297.0	173.4	155.0	151.4	148.4	146.4	143.2	139.0	138.6
30°	821.8	658.3	271.4	164.2	148.6	145.0	141.8	138.6	134.0	128.6	128.2
32.5°	890.6	686.4	252.8	158.2	143.0	139.2	135.2	131.4	126.4	121.1	121.4
35°	972.6	720.5	241.8	153.9	138.6	133.6	129.0	124.8	121.1	116.4	116.0
37.5°	1061.6	756.7	238.4	151.8	135.6	127.8	122.8	119.8	119.4	116.6	116.4
40°	1158.9	799.6	241.0	150.6	132.4	122.4	116.8	116.2	117.4	112.4	112.6
42.5°	1261.9	850.4	245.2	149.0	128.0	116.8	111.6	111.6	110.8	104.0	104.0
45°	1373.3	909.1	249.4	145.4	122.8	111.4	107.4	106.0	102.4	95.8	95.6
47.5°	1485.6	968.8	252.6	139.0	116.4	106.8	103.2	99.8	94.6	88.8	88.6
50°	1592.2	1022.4	249.2	129.3	109.4	102.4	98.6	94.0	88.4	84.4	83.6
52.5°	1687.5	1068.9	234.8	118.0	101.8	97.8	94.4	89.6	85.0	80.8	80.4
55°	1770.3	1106.6	209.6	107.2	95.0	93.8	90.4	84.4	78.0	74.4	74.0
57.5°	1849.8	1135.1	178.0	98.4	89.0	89.4	84.4	78.8	73.0	69.2	68.8
60°	1955.5	1173.4	146.2	90.2	82.4	83.6	78.2	74.2	66.8	62.0	61.4
62.5°	2124.5	1232.9	116.0	80.2	74.8	75.2	73.0	68.2	59.2	53.6	53.2
65°	2258.7	1211.0	91.4	69.2	66.2	66.8	66.8	61.6	52.2	45.6	45.0
67.5°	2243.5	1037.0	73.0	58.4	58.0	58.4	60.0	55.6	46.2	41.0	40.2
70°	2066.7	824.8	58.4	48.6	50.4	49.4	53.6	50.6	41.6	36.4	35.8
72.5°	1686.4	594.2	44.6	40.2	38.6	40.4	48.4	45.6	34.6	28.8	28.2
75°	985.4	317.0	33.2	31.8	28.0	33.6	42.8	38.8	26.4	21.2	20.6
77.5°	320.8	110.6	24.4	23.4	20.8	27.2	36.6	32.8	21.6	16.8	16.2
80°	86.0	33.4	16.6	15.4	13.4	20.2	29.0	26.0	15.6	11.0	10.8
82.5°	34.4	14.0	9.6	8.6	7.4	13.8	23.0	21.0	11.6	7.0	7.0
85°	11.2	4.6	3.6	2.8	3.4	8.6	13.6	14.2	8.2	3.6	2.8
87.5°	1.4	0.6	0.6	0.8	0.6	1.4	4.2	4.0	2.4	0.4	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)