

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: P961942

Luminaire Tested: **NAV-SB2B-735-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961942
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-SB2B-735-U-T4FT-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8739.1 lumens
Efficiency: N/A
Efficacy: 118.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 73.9
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



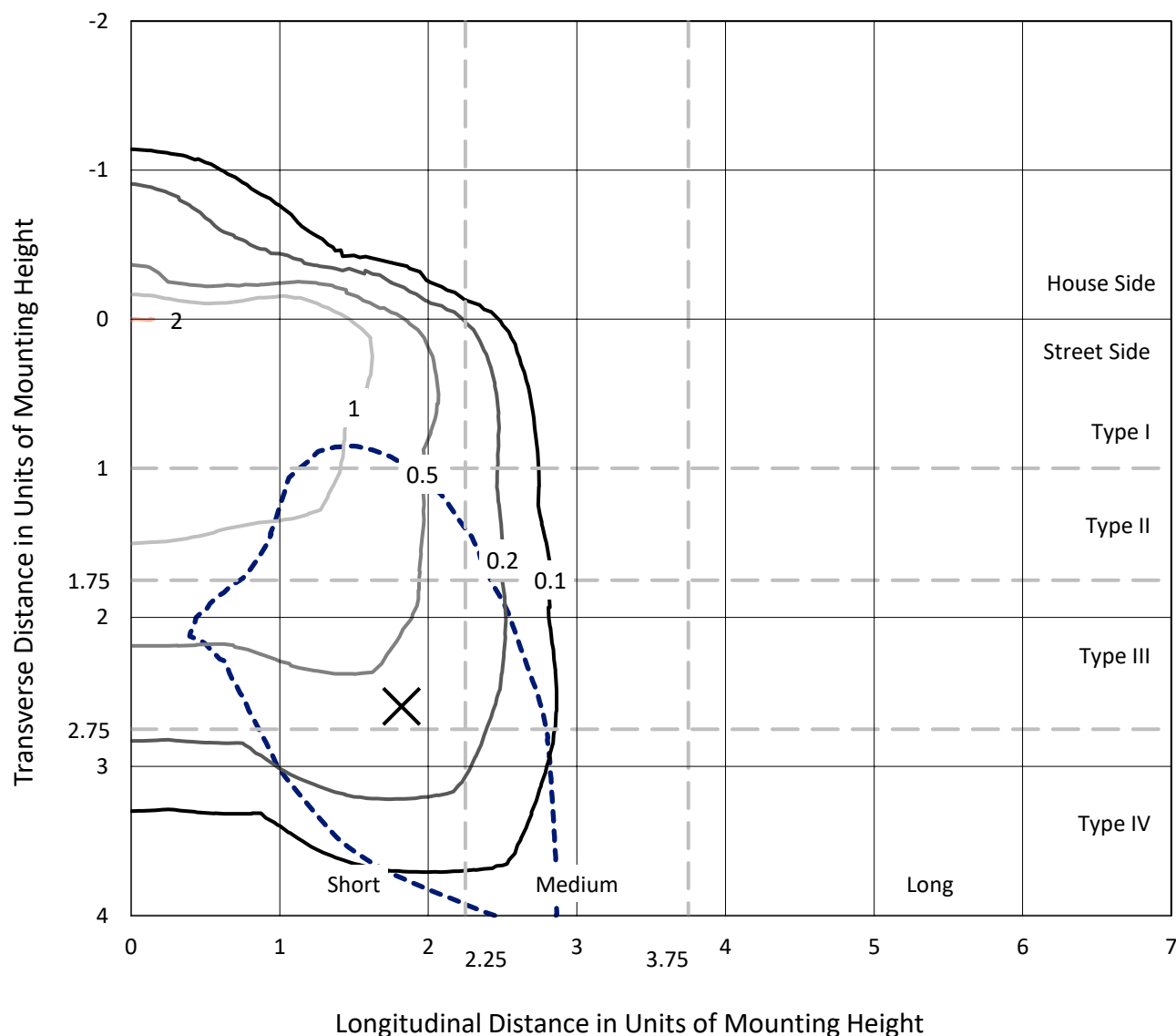
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

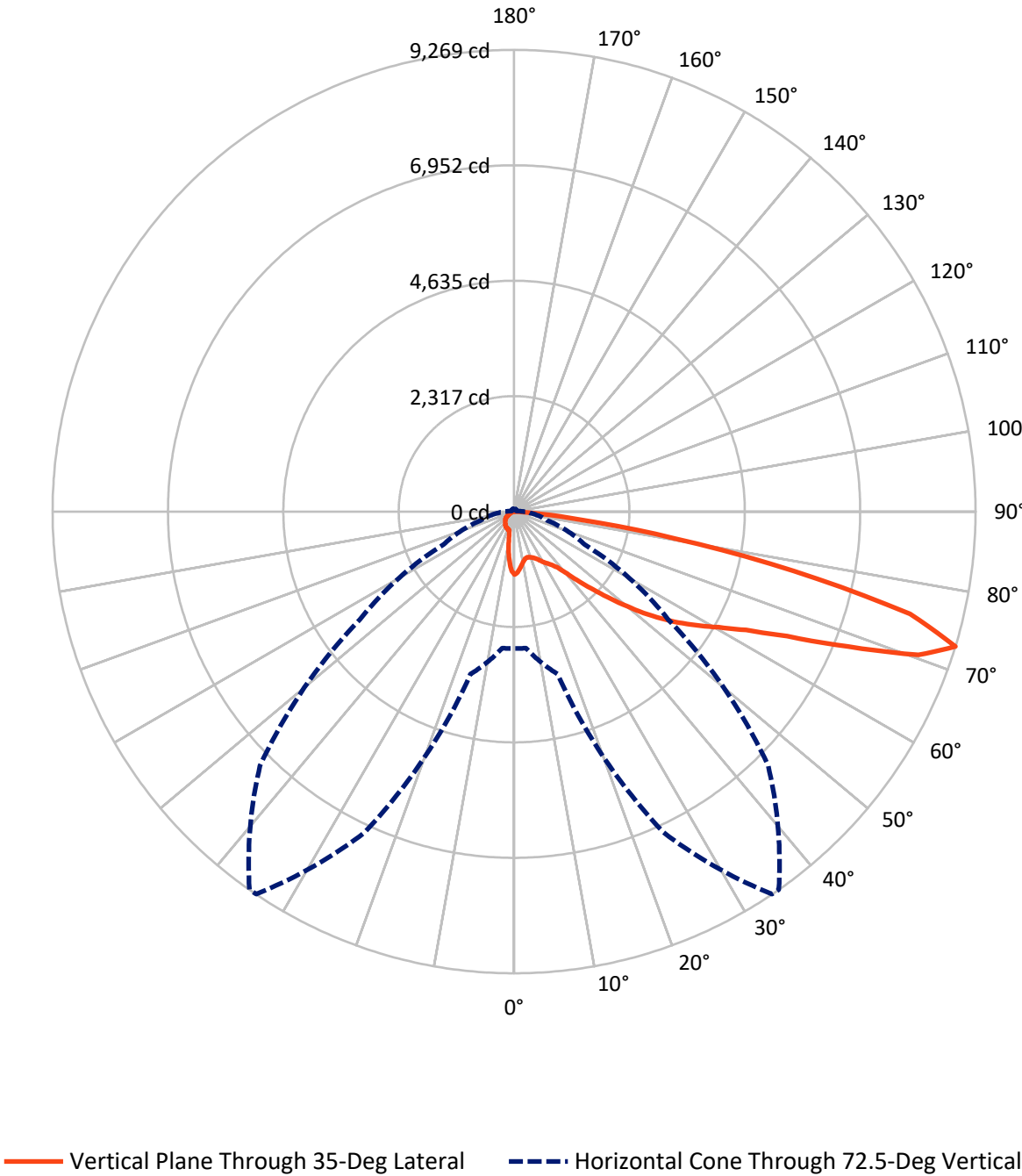


Based on 25 foot mounting height. Maximum calculated value = 2 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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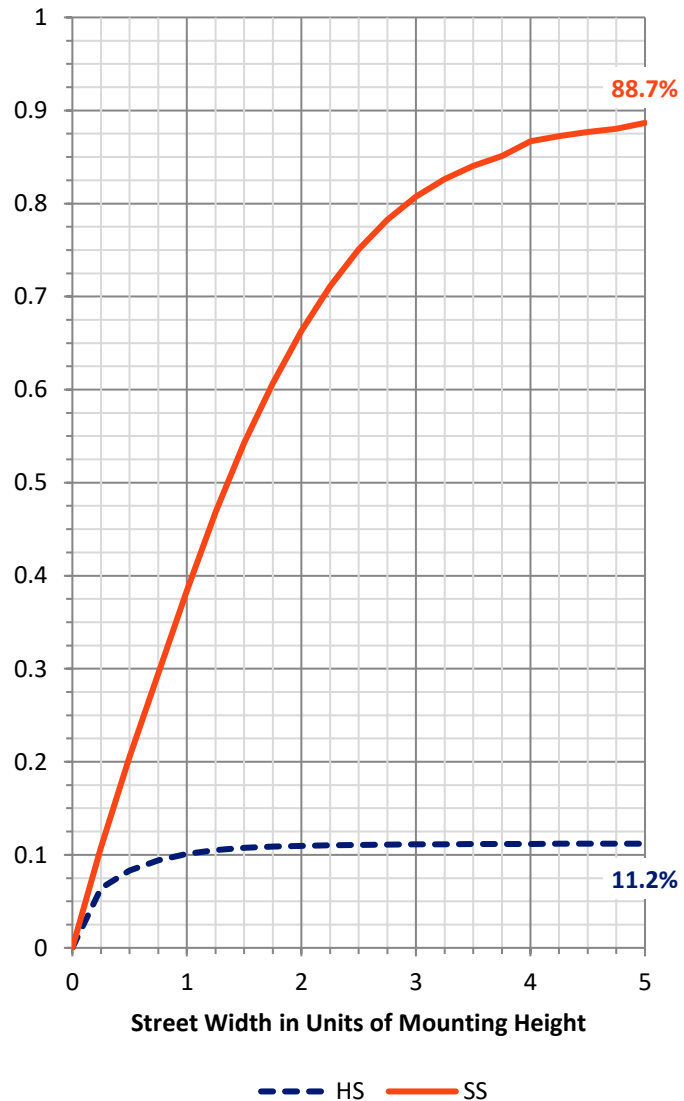
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	983.5	0.0	983.5
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	7755.6	0.0	7755.6
	% Fixture	88.7	0.0	88.7
Total	Lumens	8739.1	0.0	8739.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.1	1.2
10°-20°	243.5	2.8
20°-30°	395.5	4.5
30°-40°	659.9	7.6
40°-50°	1248.6	14.3
50°-60°	1984.1	22.7
60°-70°	2454.4	28.1
70°-80°	1525.7	17.5
80°-90°	123.3	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°	8739.1	100.0
0°-180°	8739.1	100.0

Coefficient of Utilization



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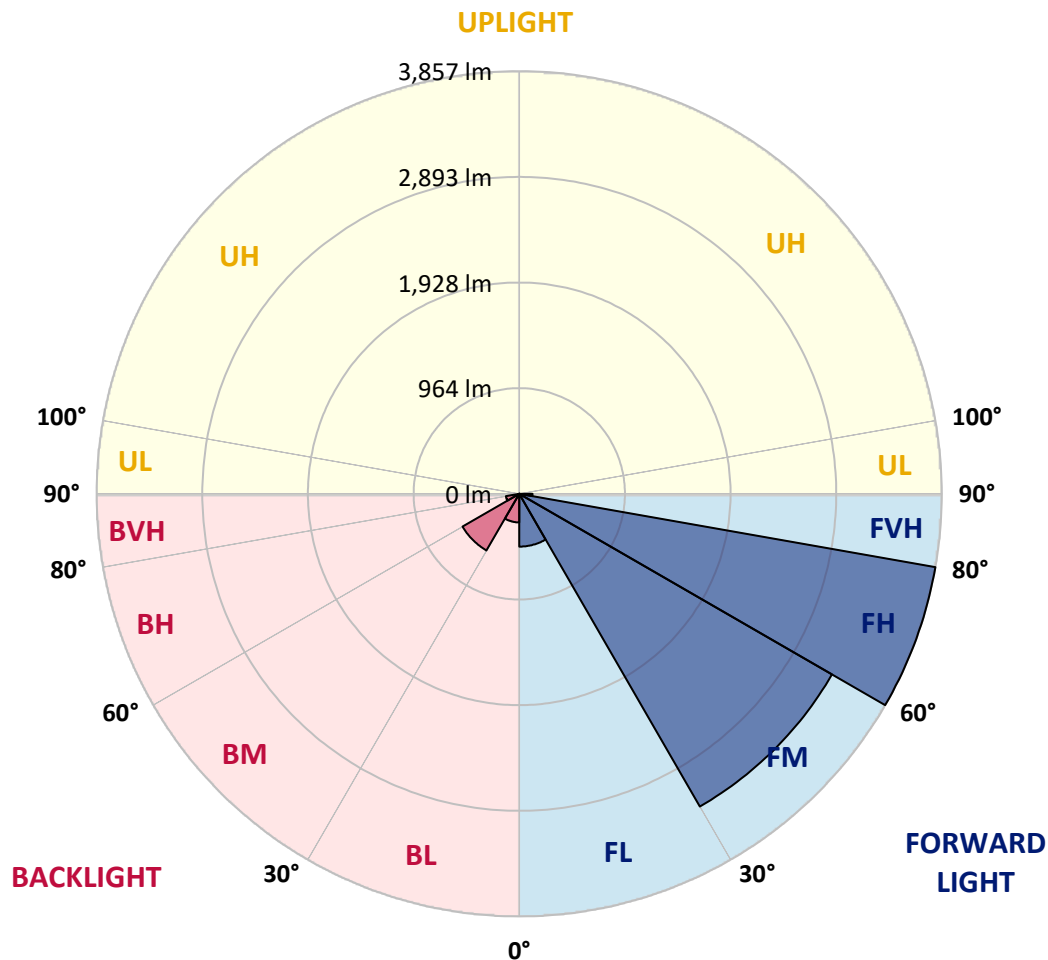
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	481.8	5.5			
FM	(30°-60°)	3295.5	37.7			
FH	(60°-80°)	3856.7	44.1			G2/5000
FVH	(80°-90°)	121.6	1.4			G2/225
BL	(0°-30°)	261.3	3.0	B1/500		
BM	(30°-60°)	597.1	6.8	B1/1000		
BH	(60°-80°)	123.4	1.4	B1/500		G1/500
BVH	(80°-90°)	1.7	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-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	1266.6	1266.6	1266.6	1266.6	1266.6	1266.6	1266.6	1266.6	1266.6	1266.6	1266.6
2.5°	1210.2	1220.5	1222.4	1225.6	1225.6	1229.5	1235.8	1244.9	1259.5	1267.2	1272.3
5°	1115.5	1123.2	1132.7	1140.4	1155.2	1157.1	1182.0	1206.4	1240.4	1266.0	1283.9
7.5°	1020.1	1029.0	1041.8	1060.4	1079.6	1085.4	1123.2	1164.1	1217.9	1266.0	1296.0
10°	952.8	953.5	965.0	983.6	1014.3	1021.3	1067.4	1125.8	1193.0	1258.3	1307.6
12.5°	915.0	919.5	924.7	938.7	968.2	972.7	1022.0	1090.5	1168.0	1253.8	1321.0
15°	915.0	918.3	921.5	928.4	952.2	956.0	999.6	1068.0	1155.2	1255.7	1342.7
17.5°	924.7	929.8	927.2	935.5	960.5	963.1	1001.5	1061.7	1154.6	1267.9	1376.1
20°	947.7	951.5	946.4	951.5	976.5	981.6	1021.3	1073.9	1165.4	1289.0	1417.7
22.5°	984.2	986.2	974.0	977.8	1003.4	1009.8	1056.0	1108.4	1191.7	1323.0	1473.4
25°	1030.3	1034.1	1015.6	1020.1	1044.4	1052.1	1105.3	1160.3	1233.3	1369.7	1544.5
27.5°	1083.4	1085.4	1069.4	1068.8	1100.1	1111.0	1164.8	1224.4	1289.0	1428.6	1634.2
30°	1144.3	1150.0	1134.7	1132.1	1171.8	1180.8	1233.9	1303.1	1370.9	1517.0	1761.6
32.5°	1192.3	1196.8	1187.9	1194.2	1234.6	1241.6	1317.8	1414.5	1499.7	1642.5	1935.1
35°	1261.5	1264.0	1243.5	1255.1	1301.1	1319.1	1432.4	1570.7	1661.7	1800.0	2161.8
37.5°	1511.9	1511.9	1424.7	1367.8	1411.9	1427.9	1589.4	1767.3	1861.5	2011.4	2447.4
40°	1858.2	1852.5	1725.1	1608.5	1602.8	1634.2	1812.8	2015.2	2119.5	2264.8	2768.8
42.5°	2227.7	2218.8	2045.3	1930.0	1910.8	1921.7	2070.9	2320.6	2426.9	2574.2	3114.7
45°	2555.6	2553.1	2394.2	2239.3	2204.7	2239.3	2393.0	2677.9	2754.1	2909.1	3459.8
47.5°	2830.3	2830.3	2714.4	2613.2	2595.3	2615.8	2829.0	3074.3	3067.2	3265.8	3796.0
50°	3146.6	3144.1	3033.9	2990.4	3009.0	3037.8	3331.0	3491.8	3391.2	3616.0	4096.3
52.5°	3368.2	3383.5	3345.8	3338.7	3433.5	3483.5	3840.8	3900.3	3681.3	3948.3	4321.0
55°	3543.6	3561.6	3605.1	3654.4	3836.9	3902.3	4334.5	4287.7	3924.0	4236.5	4450.3
57.5°	3792.1	3766.5	3833.7	3931.1	4226.3	4305.0	4812.8	4653.4	4119.3	4470.2	4464.5
60°	4093.7	4097.5	4109.1	4232.0	4615.0	4716.1	5284.1	4999.1	4244.8	4613.6	4308.2
62.5°	4456.2	4461.9	4485.6	4674.5	5136.8	5232.2	5786.1	5282.1	4302.4	4573.3	3904.8
65°	4431.2	4455.5	4719.9	5366.1	5930.2	6024.3	6372.0	5480.7	4215.4	4204.4	3179.3
67.5°	4036.8	4076.4	4518.9	6192.1	7126.3	7231.4	7080.3	5519.7	3839.4	3269.5	2074.1
70°	3519.3	3533.4	4065.6	6934.9	8511.4	8617.7	7714.2	5090.0	2913.6	1823.7	929.2
72.5°	2748.3	2751.5	3375.8	7107.1	9263.2	9269.0	7216.6	3778.7	1566.9	700.5	322.8
75°	1963.3	1944.1	2261.0	5763.7	8149.7	8215.0	5410.3	1772.4	598.7	331.1	160.7
77.5°	1052.7	1073.9	1279.4	3418.2	5629.9	5741.3	2952.0	511.0	304.8	225.4	106.3
80°	325.3	343.3	524.4	1565.0	3188.9	3256.1	1094.4	227.3	212.6	160.7	69.8
82.5°	102.5	106.3	244.6	657.6	1323.6	1354.3	316.9	128.7	145.3	106.3	41.0
85°	29.4	30.1	108.9	245.3	327.2	333.6	89.0	49.9	83.2	65.9	21.1
87.5°	3.2	10.2	41.0	41.0	28.8	28.2	9.6	10.9	23.7	8.3	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°	1266.6	1266.6	1266.6	1266.6	1266.6	1266.6	1266.6	1266.6	1266.6	1266.6	1266.6
2.5°	1269.2	1269.8	1261.5	1247.4	1232.0	1219.2	1203.2	1190.4	1181.4	1178.9	1183.4
5°	1278.1	1273.7	1250.0	1207.0	1155.8	1111.6	1062.3	1023.3	997.6	986.8	990.6
7.5°	1291.6	1278.8	1226.9	1142.4	1044.4	957.4	868.9	800.4	756.9	735.1	738.3
10°	1303.1	1277.5	1188.5	1048.9	899.0	767.1	648.0	565.4	519.4	497.5	498.2
12.5°	1313.9	1276.8	1138.6	938.1	735.1	573.8	463.0	422.0	409.2	404.7	403.4
15°	1334.4	1278.8	1075.7	811.3	571.8	433.5	393.2	392.6	395.1	393.8	393.2
17.5°	1362.6	1280.6	1004.7	676.8	441.2	382.3	380.4	386.1	390.0	388.1	387.4
20°	1399.1	1288.3	929.2	543.7	379.0	369.5	373.9	379.0	382.3	379.0	378.4
22.5°	1450.4	1301.9	846.5	436.8	359.3	361.8	365.6	371.4	374.6	370.1	369.5
25°	1513.1	1323.0	765.2	379.8	349.6	352.8	358.5	365.0	368.8	364.4	363.7
27.5°	1594.5	1356.9	690.3	367.0	340.0	341.9	350.2	359.9	365.0	359.3	359.3
30°	1712.3	1412.6	625.7	372.7	334.3	329.7	341.3	354.8	360.5	355.4	354.8
32.5°	1868.5	1491.4	585.9	381.6	331.7	315.7	326.6	343.9	353.4	350.2	350.2
35°	2073.5	1611.1	570.5	391.9	329.7	300.9	308.6	327.2	343.9	347.1	347.1
37.5°	2321.8	1777.6	575.0	396.4	324.0	288.8	292.6	308.6	330.5	340.7	343.3
40°	2604.3	1971.6	600.6	391.9	317.6	278.6	279.2	291.3	310.6	326.0	331.1
42.5°	2895.6	2198.3	648.0	375.3	311.8	269.6	267.6	276.0	288.8	299.7	304.1
45°	3172.9	2431.4	694.7	352.2	304.8	260.7	256.1	259.3	261.9	266.4	269.0
47.5°	3415.0	2595.3	681.3	331.1	295.2	250.4	242.7	241.4	233.7	233.1	232.5
50°	3582.1	2631.2	605.2	310.0	281.2	238.8	226.7	219.0	205.5	199.2	199.8
52.5°	3635.3	2489.6	494.4	288.8	258.1	223.4	206.2	194.0	177.3	171.6	171.0
55°	3564.7	2212.4	395.1	263.2	226.0	203.0	183.8	167.8	154.4	147.3	147.3
57.5°	3392.5	1859.6	312.5	233.1	192.1	179.9	160.7	144.7	133.1	126.2	124.8
60°	3107.0	1476.6	247.1	197.2	163.9	155.0	135.1	124.8	114.6	106.3	104.3
62.5°	2673.4	1054.0	194.0	156.2	137.0	126.8	115.3	107.6	95.4	83.8	82.0
65°	2086.2	644.8	149.9	114.6	110.2	105.1	98.0	90.9	76.2	64.7	62.7
67.5°	1315.9	305.4	106.9	86.4	87.1	84.6	81.3	75.5	64.7	54.4	53.2
70°	579.5	147.9	70.4	65.9	64.7	64.7	67.2	65.3	55.0	45.5	43.6
72.5°	197.2	79.4	52.5	49.9	46.7	46.1	56.4	54.4	44.2	35.3	33.3
75°	103.1	53.2	38.4	35.9	28.2	33.9	44.8	42.2	31.4	23.1	21.1
77.5°	67.2	37.8	26.2	23.1	16.0	22.4	33.3	29.4	18.6	11.5	10.2
80°	42.2	25.0	15.4	10.9	7.7	12.2	17.9	12.8	7.1	2.6	1.9
82.5°	22.4	12.8	5.7	3.8	3.2	3.8	4.5	3.2	1.2	0.0	0.0
85°	8.9	4.5	1.9	1.2	0.6	0.0	1.2	0.6	0.0	0.0	0.0
87.5°	3.2	0.6	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)