

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: P963550

Luminaire Tested: **NAV-SB3A-740-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963550
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-SB3A-740-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11446.1 lumens
Efficiency: N/A
Efficacy: 135.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 84.7
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



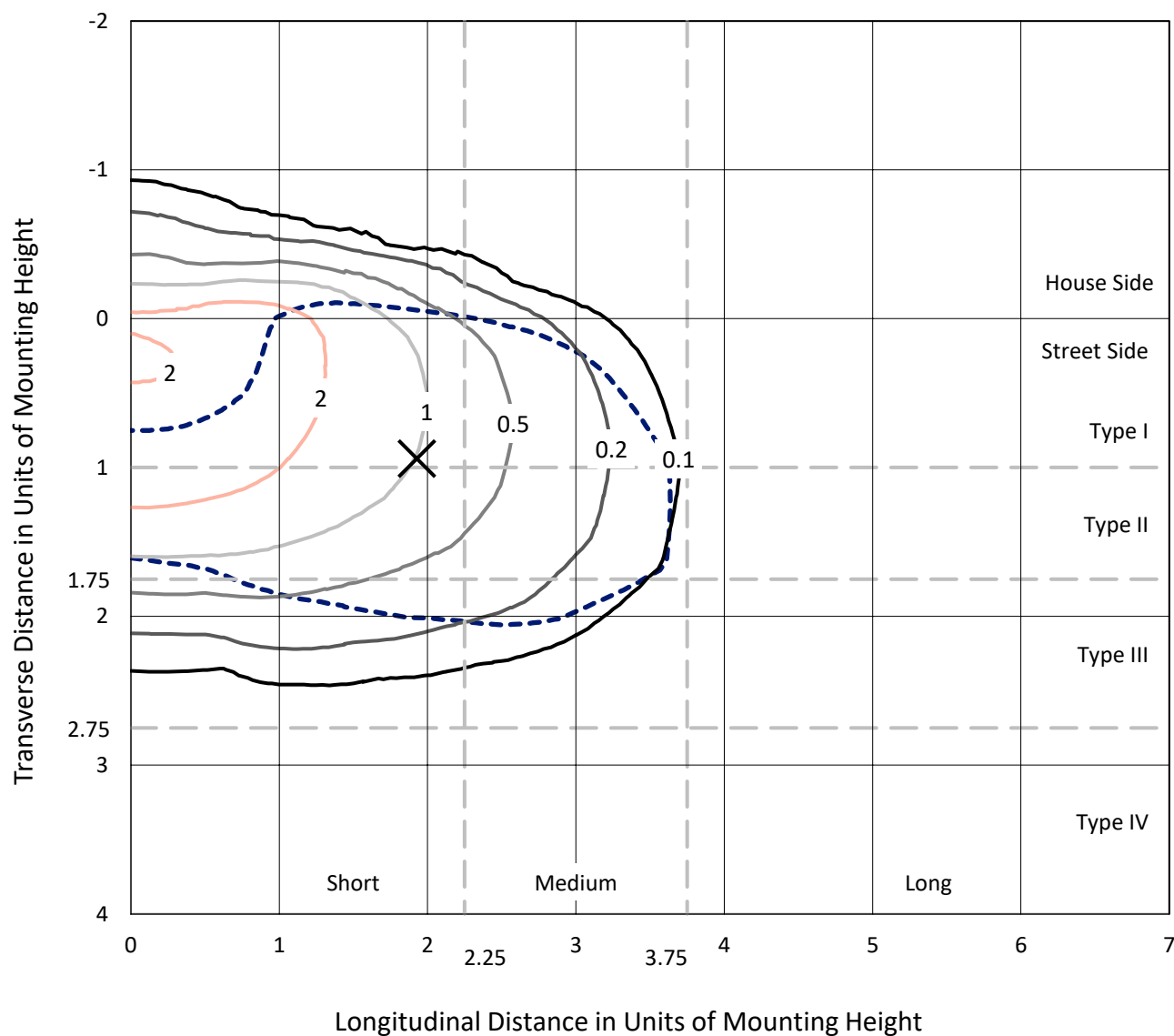
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



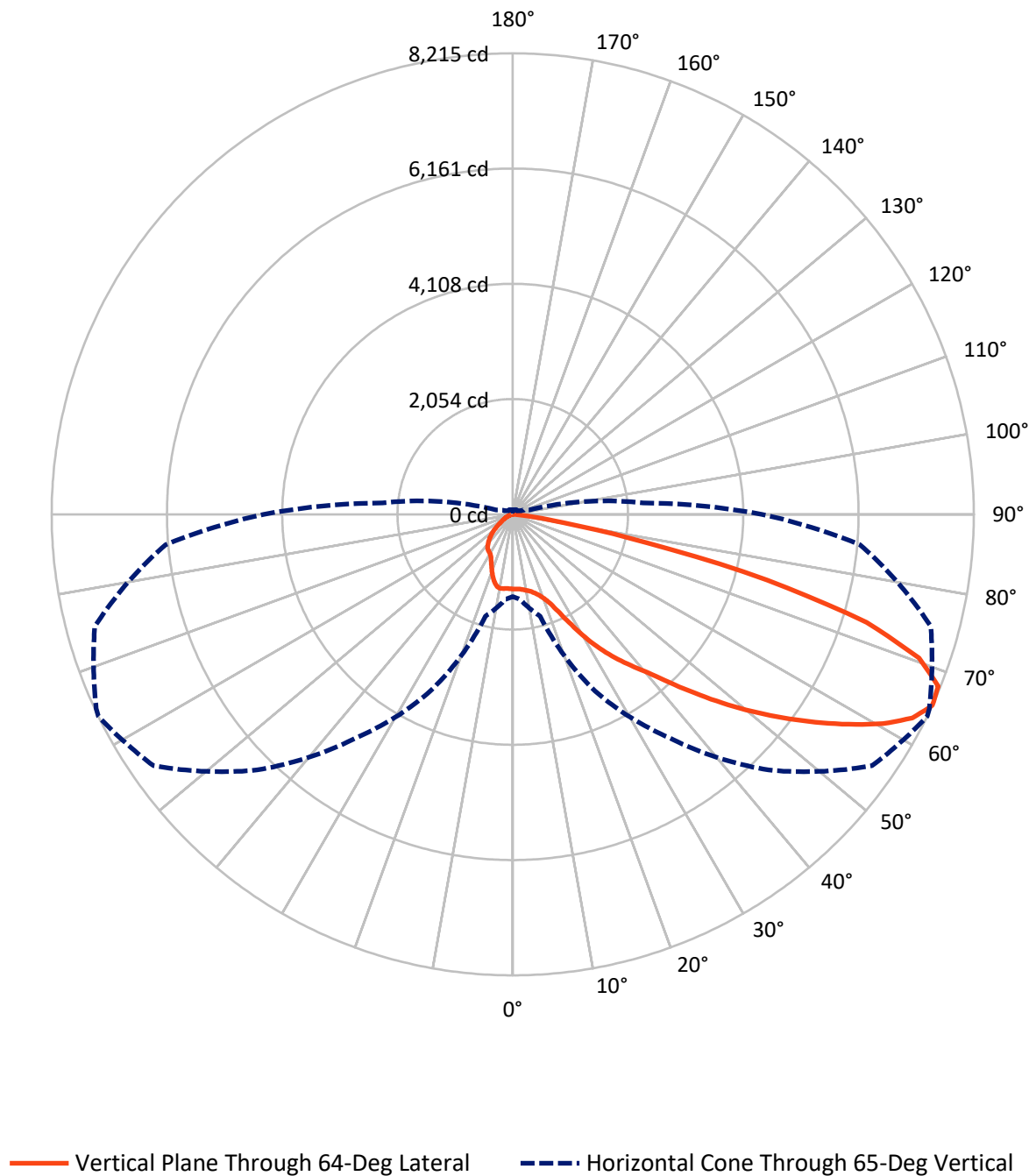
Based on 25 foot mounting height. Maximum calculated value = 3.3 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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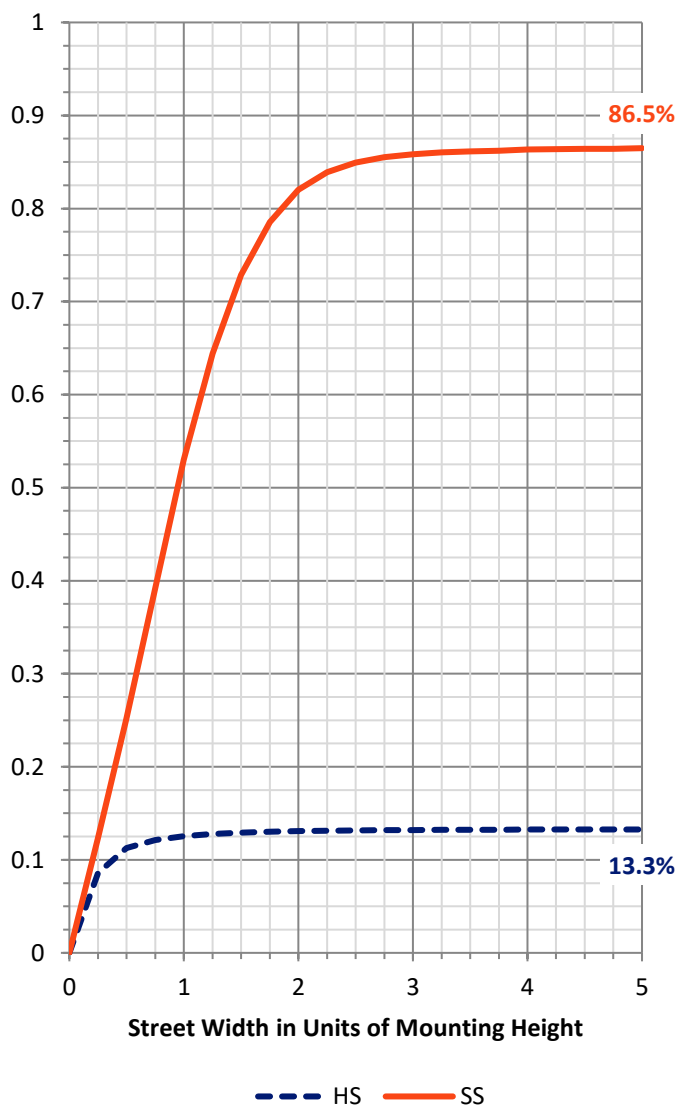
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1530.7	0.0	1530.7
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	9915.5	0.0	9915.5
	% Fixture	86.6	0.0	86.6
Total	Lumens	11446.1	0.0	11446.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.8	1.1
10°-20°	333.1	2.9
20°-30°	631.3	5.5
30°-40°	1277.4	11.2
40°-50°	2176.1	19.0
50°-60°	2959.3	25.9
60°-70°	2778.9	24.3
70°-80°	1113.3	9.7
80°-90°	53.9	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°	11446.1	100.0
0°-180°	11446.1	100.0

Coefficient of Utilization



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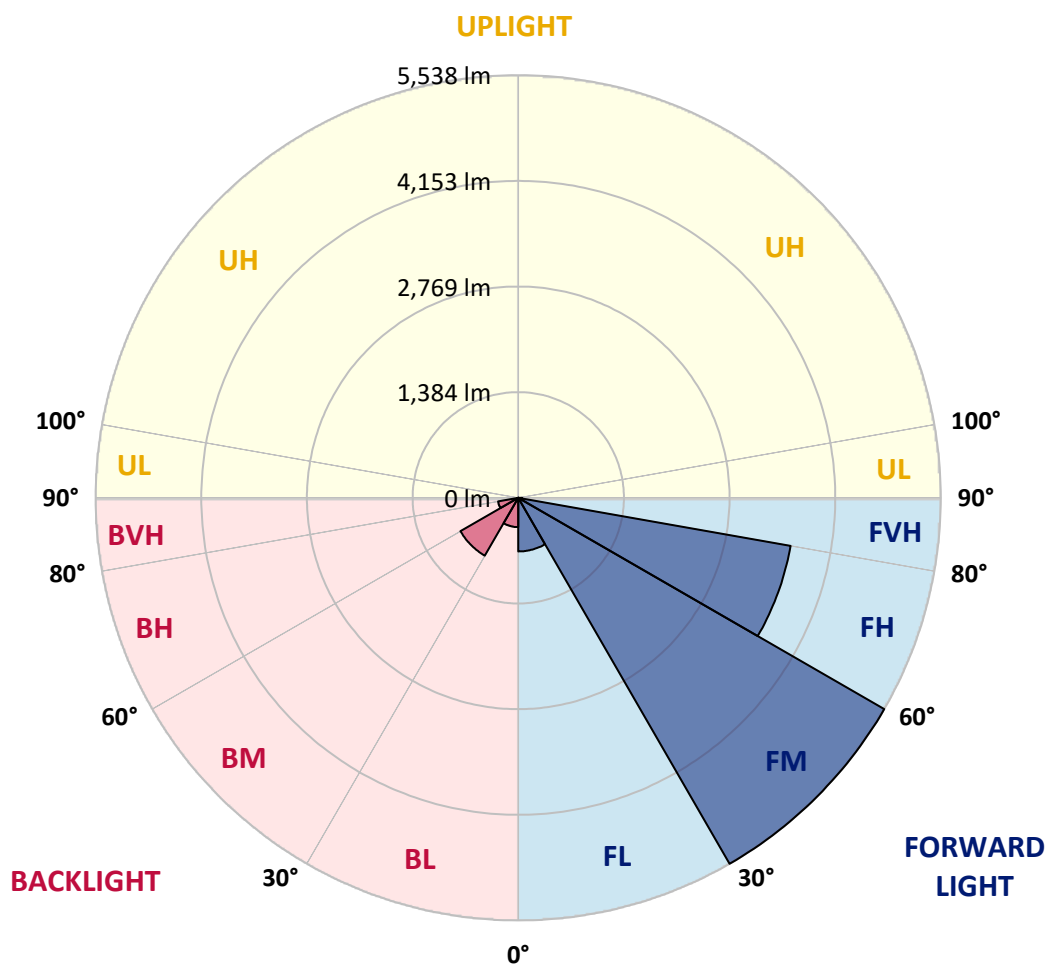
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	702.9	6.1			
FM	(30°-60°)	5537.6	48.4			
FH	(60°-80°)	3623.6	31.7			G2/5000
FVH	(80°-90°)	51.3	0.4			G1/100
BL	(0°-30°)	384.3	3.4	B1/500		
BM	(30°-60°)	875.1	7.6	B1/1000		
BH	(60°-80°)	268.7	2.3	B1/500		G1/500
BVH	(80°-90°)	2.6	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	1331.3	1331.3	1331.3	1331.3	1331.3	1331.3	1331.3	1331.3	1331.3	1331.3	1331.3
2.5°	1326.7	1335.9	1333.6	1331.3	1330.6	1332.1	1332.8	1332.1	1332.1	1332.1	1332.8
5°	1301.3	1309.0	1309.0	1314.5	1322.1	1331.3	1338.2	1339.8	1341.3	1343.6	1342.9
7.5°	1253.1	1259.2	1263.8	1281.5	1300.6	1325.1	1345.9	1356.6	1358.1	1366.6	1369.7
10°	1220.1	1227.7	1235.4	1253.8	1281.5	1318.3	1353.5	1379.6	1383.4	1403.4	1412.7
12.5°	1218.5	1226.2	1236.1	1256.1	1288.3	1327.5	1370.4	1408.0	1414.9	1444.1	1463.3
15°	1234.6	1243.8	1253.1	1277.6	1312.1	1359.7	1405.8	1452.5	1459.5	1500.9	1521.6
17.5°	1267.6	1279.9	1286.8	1311.4	1348.2	1401.2	1461.8	1515.5	1521.6	1570.0	1596.0
20°	1332.8	1347.5	1349.7	1369.7	1405.8	1462.6	1534.6	1601.4	1609.0	1664.3	1693.5
22.5°	1467.9	1488.6	1470.2	1480.2	1512.4	1569.2	1647.5	1731.8	1742.6	1805.5	1831.6
25°	1705.8	1734.9	1687.4	1670.4	1684.3	1743.3	1841.6	1948.2	1960.5	2011.2	2024.2
27.5°	2173.1	2135.5	2063.3	1992.7	1951.3	1985.1	2095.6	2227.5	2242.9	2292.0	2276.6
30°	2686.4	2653.4	2555.9	2399.4	2301.2	2295.8	2397.9	2545.2	2562.9	2609.6	2562.9
32.5°	3200.6	3169.1	3063.2	2870.5	2700.3	2615.8	2686.4	2849.8	2859.0	2889.0	2819.9
35°	3706.2	3673.9	3568.0	3370.8	3161.4	2969.5	2955.7	3139.9	3143.0	3174.4	3071.6
37.5°	4214.9	4188.0	4075.3	3881.9	3675.4	3410.8	3282.7	3414.6	3418.5	3449.1	3342.4
40°	4577.9	4589.3	4511.8	4362.2	4185.0	3895.7	3649.4	3706.9	3684.0	3735.3	3671.7
42.5°	4889.4	4912.4	4844.9	4769.7	4666.8	4412.1	4103.7	4093.6	4056.8	4084.5	4018.5
45°	5158.7	5177.9	5117.3	5099.7	5097.3	4918.6	4600.1	4540.2	4488.9	4483.5	4404.4
47.5°	5257.7	5294.5	5320.7	5379.7	5494.8	5419.6	5113.4	5020.7	4963.0	4920.8	4795.8
50°	5295.4	5334.4	5423.5	5595.4	5867.7	5900.0	5624.5	5520.1	5449.5	5372.8	5188.7
52.5°	5244.6	5314.5	5434.2	5723.5	6118.6	6285.2	6114.8	6023.5	5943.0	5817.9	5544.7
55°	4946.1	5016.0	5260.8	5722.0	6243.7	6555.3	6578.2	6537.7	6447.0	6249.8	5832.5
57.5°	4317.0	4420.5	4808.1	5527.0	6241.4	6787.8	7032.5	7061.7	6960.4	6678.1	6058.8
60°	3445.3	3585.8	4058.4	5095.1	6048.8	6913.6	7430.7	7576.6	7469.2	7100.1	6242.1
62.5°	2404.0	2566.7	3014.0	4418.3	5608.4	6823.0	7721.6	7990.9	7909.6	7477.6	6312.8
65°	1466.4	1518.5	1879.1	3476.8	4859.4	6444.0	7811.3	8215.0	8188.1	7708.5	6208.4
67.5°	976.8	1020.6	1124.1	2384.0	3772.2	5686.6	7596.5	8175.8	8183.5	7671.0	5826.3
70°	588.6	626.2	693.6	1386.5	2444.7	4501.1	6931.3	7677.0	7721.6	7168.3	5101.9
72.5°	242.5	267.8	329.2	628.4	1266.1	2856.8	5519.4	6591.4	6694.9	6027.3	3915.7
75°	137.4	150.4	193.3	315.4	549.4	1331.3	3343.2	4679.1	4831.8	4154.3	2355.7
77.5°	91.3	97.5	125.0	204.1	309.2	454.3	1428.7	2437.8	2729.4	2268.9	1019.8
80°	61.4	66.7	85.9	136.6	201.0	194.9	455.0	903.1	1111.1	779.6	248.6
82.5°	41.4	42.2	61.4	89.8	127.4	94.4	134.3	280.8	353.0	225.6	94.4
85°	23.8	23.1	45.3	52.2	56.8	39.2	40.7	84.4	110.5	95.1	53.7
87.5°	3.1	4.6	17.6	13.8	7.7	8.4	8.4	14.6	21.5	23.1	11.5
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°	1331.3	1331.3	1331.3	1331.3	1331.3	1331.3	1331.3	1331.3	1331.3	1331.3	1331.3
2.5°	1332.8	1332.1	1329.7	1327.5	1322.1	1319.1	1320.6	1319.1	1318.3	1319.1	1322.1
5°	1342.9	1340.5	1334.3	1326.7	1316.0	1302.9	1294.5	1282.2	1270.7	1263.8	1265.4
7.5°	1369.7	1367.4	1358.9	1337.4	1302.9	1248.4	1198.5	1154.9	1121.9	1102.7	1103.4
10°	1412.7	1408.8	1395.7	1348.2	1257.7	1138.7	1039.8	957.7	903.9	878.6	876.3
12.5°	1463.3	1458.7	1435.6	1338.2	1171.7	986.0	849.4	758.1	708.3	686.0	683.7
15°	1523.1	1517.0	1471.7	1290.7	1046.6	817.2	692.1	623.8	591.6	571.6	572.5
17.5°	1597.6	1586.8	1498.6	1219.2	910.8	688.3	595.4	544.1	515.7	496.5	495.0
20°	1694.2	1676.6	1520.1	1134.1	785.8	607.0	530.2	487.3	465.8	448.8	445.8
22.5°	1829.3	1804.0	1546.1	1042.0	697.5	550.9	481.9	450.4	432.8	413.6	410.5
25°	1996.6	1966.7	1578.4	956.8	636.8	502.6	446.6	420.5	399.7	377.5	375.3
27.5°	2230.6	2176.9	1616.7	887.0	584.7	461.1	414.3	385.2	361.4	343.0	339.2
30°	2491.5	2403.2	1650.6	844.8	537.1	422.8	372.2	343.0	320.7	307.7	305.3
32.5°	2738.6	2618.9	1672.8	826.5	494.2	379.0	326.2	294.7	277.8	274.0	276.2
35°	2971.9	2813.8	1670.4	808.7	455.8	335.3	280.8	248.6	235.5	237.9	237.9
37.5°	3240.4	3021.7	1654.4	781.2	424.4	295.4	241.7	213.3	201.8	202.5	205.6
40°	3552.8	3261.9	1644.4	729.0	389.8	258.6	209.5	186.4	178.0	175.0	174.1
42.5°	3885.8	3494.4	1645.9	669.8	346.9	225.6	187.3	168.0	160.4	158.1	157.3
45°	4220.3	3716.1	1648.2	608.4	301.6	200.3	171.1	155.0	150.4	147.3	147.3
47.5°	4534.9	3904.9	1605.3	542.5	257.1	181.1	158.1	147.3	143.5	139.6	139.6
50°	4828.1	4030.7	1501.6	465.8	221.7	165.7	148.1	140.4	136.6	132.7	132.7
52.5°	5055.9	4050.7	1330.6	386.7	197.2	154.3	142.0	135.1	130.5	126.6	125.9
55°	5157.2	3925.6	1087.3	313.0	178.0	144.2	135.8	128.9	123.5	119.7	118.9
57.5°	5131.2	3662.4	847.9	251.6	159.6	134.3	128.1	123.5	117.4	111.2	110.5
60°	5002.9	3310.2	639.2	209.5	142.7	123.5	119.7	115.8	107.4	98.2	96.7
62.5°	4781.2	2867.5	455.8	173.4	124.3	111.2	109.8	106.7	94.4	77.5	76.0
65°	4442.0	2329.6	306.9	144.2	106.7	97.5	98.2	92.9	76.8	57.5	56.0
67.5°	3946.4	1703.4	196.4	118.2	89.0	81.4	82.1	79.0	65.2	49.1	46.8
70°	3314.8	1128.0	128.1	89.8	71.3	62.9	67.5	68.3	55.2	39.9	38.3
72.5°	2430.1	666.0	89.8	66.7	52.2	43.8	55.2	56.8	44.5	29.9	28.4
75°	1385.0	316.1	67.5	48.4	32.2	30.6	42.9	42.9	30.6	20.0	18.4
77.5°	581.6	132.0	47.6	31.5	18.4	17.6	29.1	26.9	15.4	9.2	9.2
80°	168.0	59.0	25.3	15.4	7.7	6.9	11.5	8.4	3.8	1.5	1.5
82.5°	66.0	26.1	9.9	6.1	3.1	3.1	1.5	0.0	0.0	0.0	0.0
85°	39.2	10.8	4.6	2.3	0.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.9	2.3	1.5	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)