

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: P962651

Luminaire Tested: **NAV-SB2C-835-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962651
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-SB2C-835-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3500K, 615mA 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: 11167.4 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 100.9
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



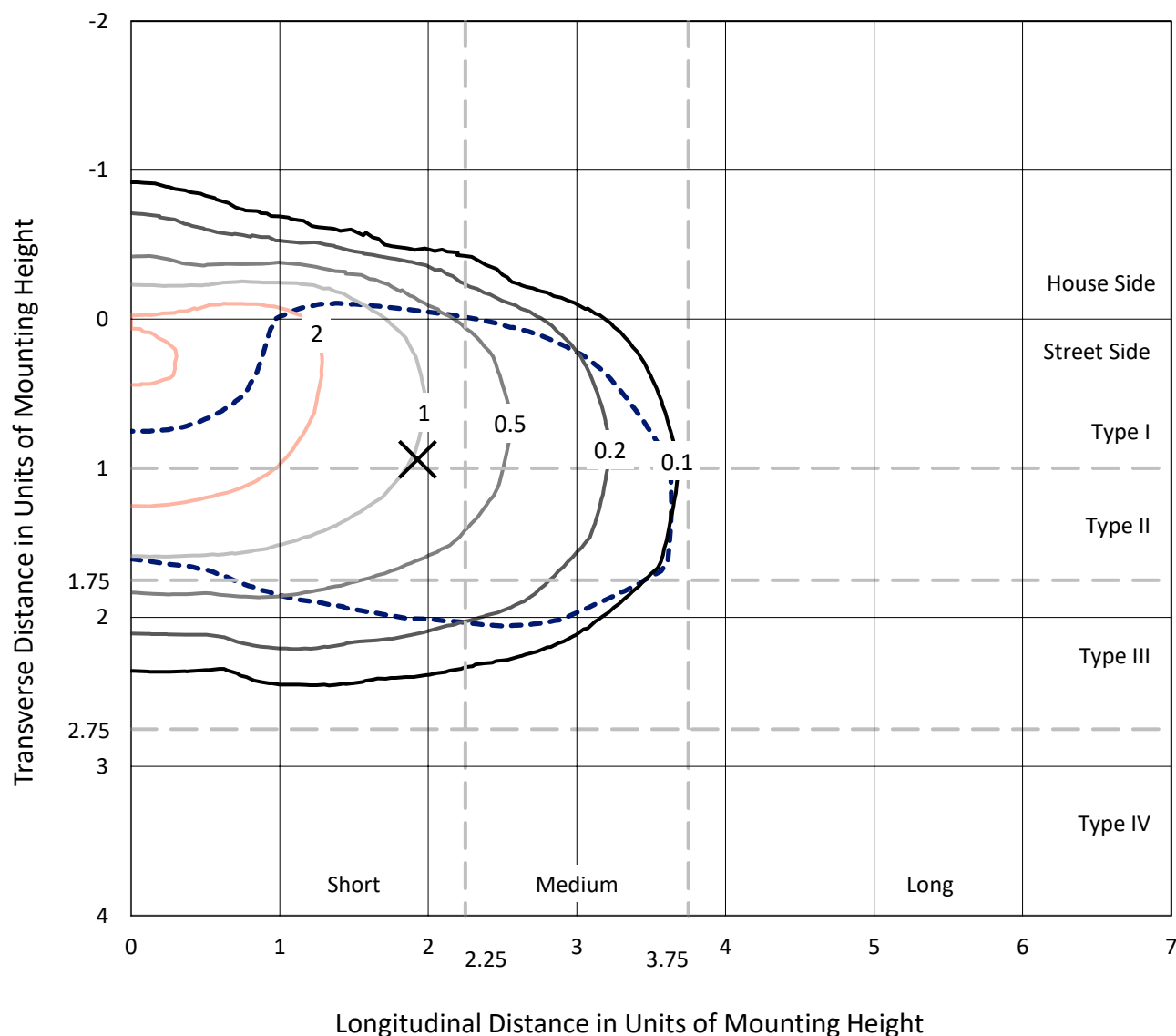
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

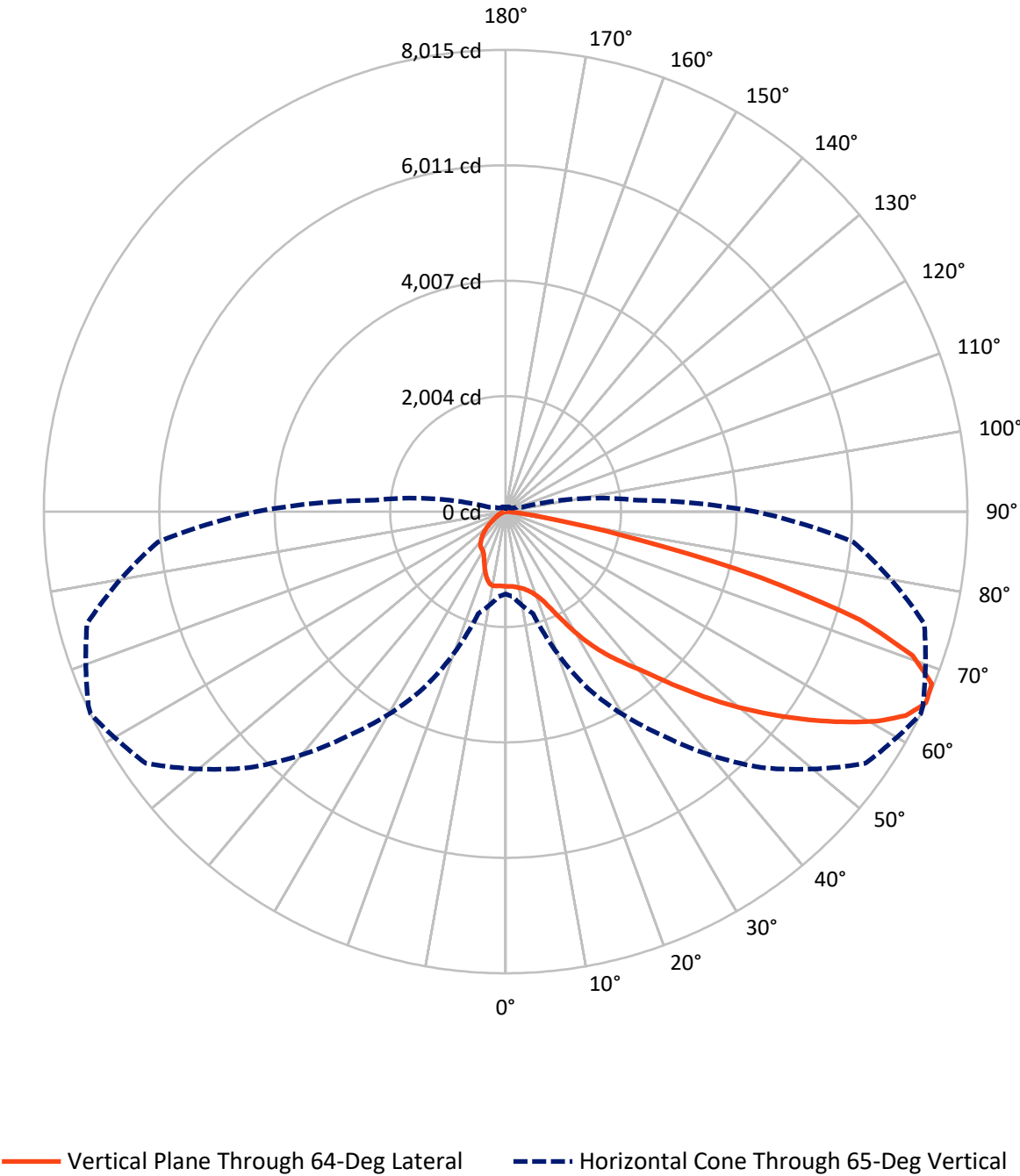


Based on 25 foot mounting height. Maximum calculated value = 3.3 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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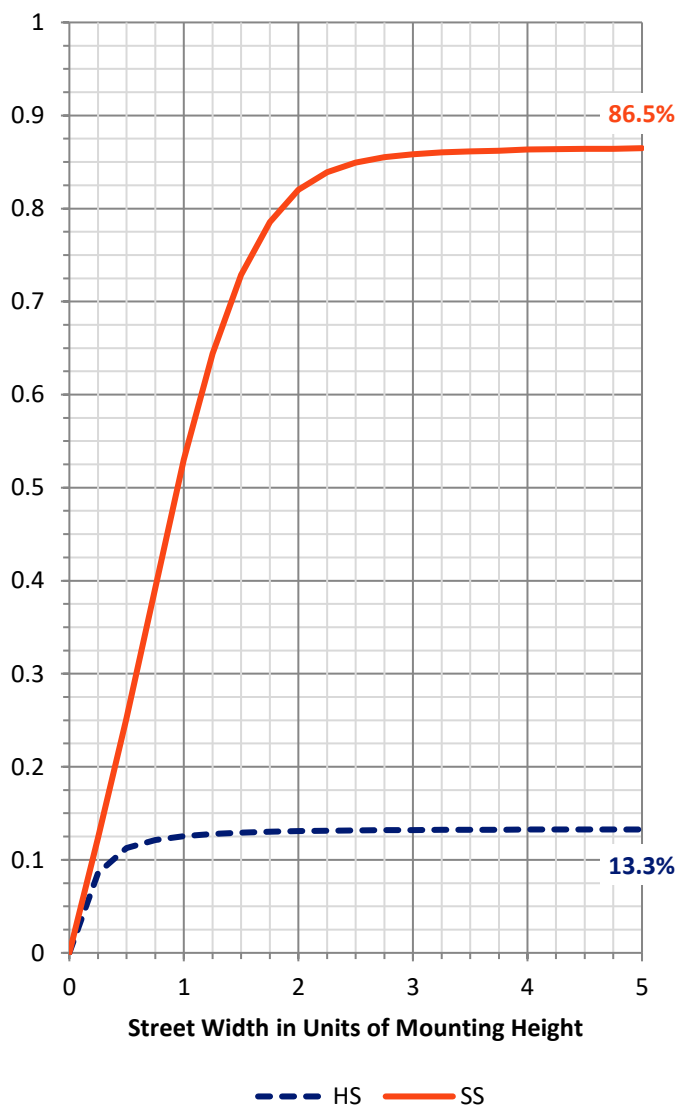
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1493.4	0.0	1493.4
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	9674.0	0.0	9674.0
	% Fixture	86.6	0.0	86.6
Total	Lumens	11167.4	0.0	11167.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.8	1.1
10°-20°	325.0	2.9
20°-30°	615.9	5.5
30°-40°	1246.3	11.2
40°-50°	2123.1	19.0
50°-60°	2887.2	25.9
60°-70°	2711.2	24.3
70°-80°	1086.2	9.7
80°-90°	52.6	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°	11167.4	100.0
0°-180°	11167.4	100.0

Coefficient of Utilization



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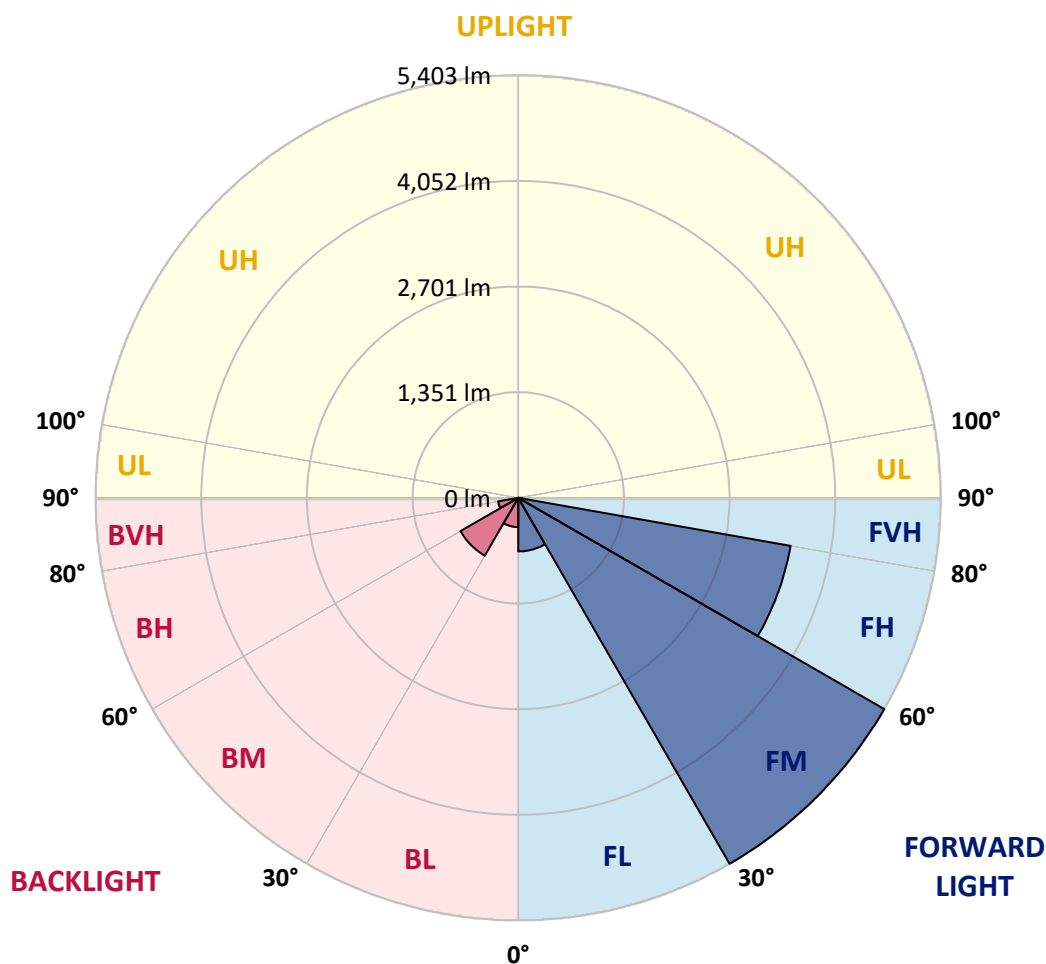
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	685.8	6.1			
FM	(30°-60°)	5402.8	48.4			
FH	(60°-80°)	3535.3	31.7			G2/5000
FVH	(80°-90°)	50.0	0.4			G1/100
BL	(0°-30°)	375.0	3.4	B1/500		
BM	(30°-60°)	853.8	7.6	B1/1000		
BH	(60°-80°)	262.1	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°	1298.9	1298.9	1298.9	1298.9	1298.9	1298.9	1298.9	1298.9	1298.9	1298.9	1298.9
2.5°	1294.4	1303.4	1301.1	1298.9	1298.2	1299.6	1300.4	1299.6	1299.6	1299.6	1300.4
5°	1269.7	1277.1	1277.1	1282.4	1289.9	1298.9	1305.6	1307.1	1308.6	1310.9	1310.2
7.5°	1222.5	1228.5	1233.0	1250.2	1268.9	1292.9	1313.1	1323.6	1325.1	1333.3	1336.3
10°	1190.3	1197.8	1205.3	1223.2	1250.2	1286.2	1320.6	1346.0	1349.8	1369.3	1378.2
12.5°	1188.8	1196.3	1206.0	1225.5	1257.0	1295.1	1337.1	1373.7	1380.5	1409.0	1427.6
15°	1204.6	1213.5	1222.5	1246.5	1280.1	1326.6	1371.4	1417.2	1423.9	1464.3	1484.5
17.5°	1236.8	1248.8	1255.4	1279.4	1315.4	1367.0	1426.2	1478.6	1484.5	1531.7	1557.2
20°	1300.4	1314.6	1316.8	1336.3	1371.4	1426.9	1497.3	1562.4	1569.9	1623.8	1652.2
22.5°	1432.1	1452.3	1434.4	1444.1	1475.6	1530.9	1607.3	1689.7	1700.2	1761.6	1787.0
25°	1664.2	1692.7	1646.3	1629.7	1643.3	1700.9	1796.7	1900.8	1912.8	1962.2	1974.9
27.5°	2120.1	2083.4	2013.1	1944.2	1903.7	1936.7	2044.6	2173.3	2188.3	2236.1	2221.2
30°	2620.9	2588.7	2493.7	2341.0	2245.2	2239.9	2339.5	2483.3	2500.5	2546.1	2500.5
32.5°	3122.6	3091.9	2988.6	2800.6	2634.5	2552.1	2620.9	2780.4	2789.4	2818.6	2751.2
35°	3615.9	3584.4	3481.1	3288.7	3084.3	2897.3	2883.7	3063.4	3066.4	3097.1	2996.8
37.5°	4112.3	4086.1	3976.0	3787.4	3586.0	3327.7	3202.6	3331.5	3335.1	3365.1	3261.0
40°	4466.3	4477.6	4402.0	4256.0	4083.1	3800.8	3560.5	3616.6	3594.2	3644.4	3582.2
42.5°	4770.3	4792.8	4726.9	4653.5	4553.2	4304.7	4003.6	3994.0	3958.0	3985.0	3920.6
45°	5033.1	5051.8	4992.7	4975.5	4973.2	4798.7	4488.1	4429.6	4379.5	4374.3	4297.2
47.5°	5129.6	5165.6	5191.0	5248.7	5361.0	5287.6	4988.9	4898.3	4842.2	4801.0	4678.9
50°	5166.3	5204.5	5291.4	5459.0	5724.8	5756.3	5487.5	5385.7	5316.8	5242.0	5062.3
52.5°	5116.9	5185.1	5301.8	5584.1	5969.6	6132.1	5965.9	5876.7	5798.2	5676.1	5409.6
55°	4825.7	4893.9	5132.7	5582.6	6091.7	6395.6	6418.0	6378.4	6290.0	6097.6	5690.4
57.5°	4211.8	4312.9	4690.9	5392.4	6089.4	6622.4	6861.2	6889.6	6790.8	6515.4	5911.2
60°	3361.4	3498.3	3959.6	4970.9	5901.5	6745.2	7249.8	7392.0	7287.2	6927.2	6090.1
62.5°	2345.5	2504.2	2940.6	4310.6	5471.8	6656.9	7533.5	7796.3	7716.9	7295.4	6159.0
65°	1430.6	1481.5	1833.4	3392.0	4741.1	6287.0	7621.1	8014.9	7988.6	7520.8	6057.2
67.5°	953.0	995.7	1096.8	2326.0	3680.3	5548.1	7411.5	7976.8	7984.2	7484.1	5684.3
70°	574.2	610.9	676.8	1352.8	2385.2	4391.5	6762.4	7490.1	7533.5	6993.8	4977.7
72.5°	236.6	261.3	321.1	613.2	1235.2	2787.2	5384.9	6430.7	6531.8	5880.5	3820.3
75°	134.0	146.8	188.7	307.7	536.0	1298.9	3261.8	4565.1	4714.2	4053.2	2298.4
77.5°	89.1	95.1	122.1	199.2	301.7	443.2	1394.0	2378.4	2662.8	2213.7	995.0
80°	59.9	65.1	83.8	133.2	196.2	190.1	443.9	881.2	1084.0	760.7	242.5
82.5°	40.4	41.2	59.9	87.6	124.2	92.0	131.0	274.0	344.4	220.1	92.0
85°	23.2	22.4	44.2	50.9	55.4	38.1	39.7	82.3	107.8	92.9	52.4
87.5°	3.0	4.5	17.2	13.4	7.5	8.2	8.2	14.2	21.0	22.4	11.3
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°	1298.9	1298.9	1298.9	1298.9	1298.9	1298.9	1298.9	1298.9	1298.9	1298.9	1298.9
2.5°	1300.4	1299.6	1297.3	1295.1	1289.9	1286.9	1288.4	1286.9	1286.2	1286.9	1289.9
5°	1310.2	1307.9	1301.9	1294.4	1283.9	1271.2	1262.9	1251.0	1239.7	1233.0	1234.5
7.5°	1336.3	1334.0	1325.8	1304.8	1271.2	1218.0	1169.3	1126.7	1094.5	1075.7	1076.6
10°	1378.2	1374.5	1361.8	1315.4	1227.0	1111.0	1014.4	934.3	881.9	857.2	855.0
12.5°	1427.6	1423.1	1400.7	1305.6	1143.2	962.0	828.7	739.6	691.0	669.3	667.1
15°	1486.0	1480.1	1435.9	1259.2	1021.1	797.2	675.3	608.6	577.2	557.7	558.5
17.5°	1558.6	1548.2	1462.1	1189.6	888.7	671.5	581.0	530.7	503.1	484.4	482.9
20°	1653.0	1635.8	1483.1	1106.5	766.6	592.1	517.3	475.4	454.4	438.0	434.9
22.5°	1784.7	1760.0	1508.5	1016.7	680.5	537.5	470.2	439.4	422.2	403.5	400.6
25°	1947.9	1918.8	1540.0	933.6	621.4	490.4	435.7	410.2	390.0	368.3	366.1
27.5°	2176.3	2123.9	1577.4	865.4	570.4	450.0	404.3	375.8	352.6	334.7	330.9
30°	2430.8	2344.7	1610.3	824.2	524.1	412.5	363.1	334.7	312.9	300.2	298.0
32.5°	2671.9	2555.1	1632.0	806.3	482.2	369.8	318.2	287.5	271.0	267.2	269.5
35°	2899.4	2745.3	1629.7	789.0	444.6	327.2	274.0	242.5	229.8	232.1	232.1
37.5°	3161.5	2948.1	1614.1	762.1	414.0	288.2	235.9	208.1	196.9	197.6	200.6
40°	3466.1	3182.4	1604.3	711.2	380.3	252.3	204.4	181.9	173.6	170.7	169.9
42.5°	3791.1	3409.3	1605.9	653.5	338.4	220.1	182.7	164.0	156.4	154.3	153.4
45°	4117.5	3625.6	1608.0	593.7	294.2	195.4	167.0	151.2	146.8	143.7	143.7
47.5°	4424.4	3809.8	1566.1	529.3	250.8	176.7	154.3	143.7	140.0	136.2	136.2
50°	4710.4	3932.6	1465.0	454.4	216.4	161.7	144.5	137.0	133.2	129.6	129.6
52.5°	4932.7	3952.1	1298.2	377.3	192.4	150.5	138.5	131.7	127.3	123.5	122.8
55°	5031.6	3830.0	1060.8	305.4	173.6	140.7	132.5	125.8	120.5	116.7	116.0
57.5°	5006.1	3573.3	827.3	245.6	155.7	131.0	125.0	120.5	114.5	108.5	107.8
60°	4881.0	3229.6	623.6	204.4	139.2	120.5	116.7	113.1	104.9	95.8	94.3
62.5°	4664.8	2797.6	444.6	169.2	121.3	108.5	107.0	104.0	92.0	75.6	74.1
65°	4333.8	2272.8	299.5	140.7	104.0	95.1	95.8	90.6	74.8	56.2	54.6
67.5°	3850.2	1661.9	191.7	115.3	86.8	79.3	80.2	77.1	63.7	47.9	45.7
70°	3234.1	1100.5	125.0	87.6	69.6	61.4	65.9	66.6	53.9	38.9	37.4
72.5°	2370.9	649.8	87.6	65.1	50.9	42.6	53.9	55.4	43.5	29.2	27.7
75°	1351.3	308.4	65.9	47.2	31.5	29.9	41.9	41.9	29.9	19.5	17.9
77.5°	567.4	128.7	46.4	30.6	17.9	17.2	28.5	26.2	15.0	9.0	9.0
80°	164.0	57.6	24.7	15.0	7.5	6.8	11.3	8.2	3.8	1.5	1.5
82.5°	64.4	25.4	9.7	5.9	3.0	3.0	1.5	0.0	0.0	0.0	0.0
85°	38.1	10.5	4.5	2.3	0.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.7	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)