

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: P962655

Luminaire Tested: **NAV-SB2C-835-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962655
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-SB2C-835-U-T4FT-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3500K, 615mA 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: 10780.9 lumens
Efficiency: N/A
Efficacy: 106.8 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): 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



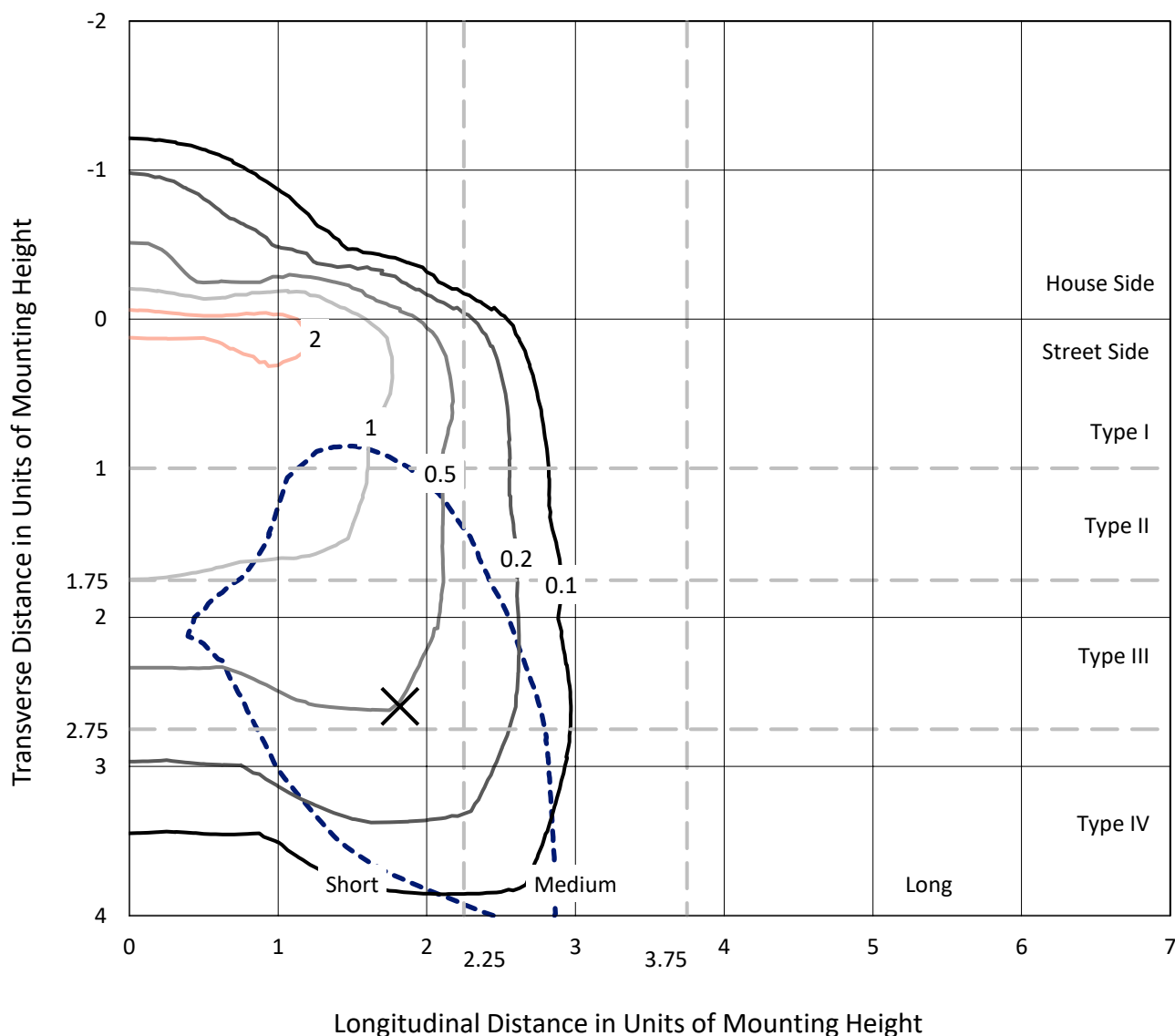
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

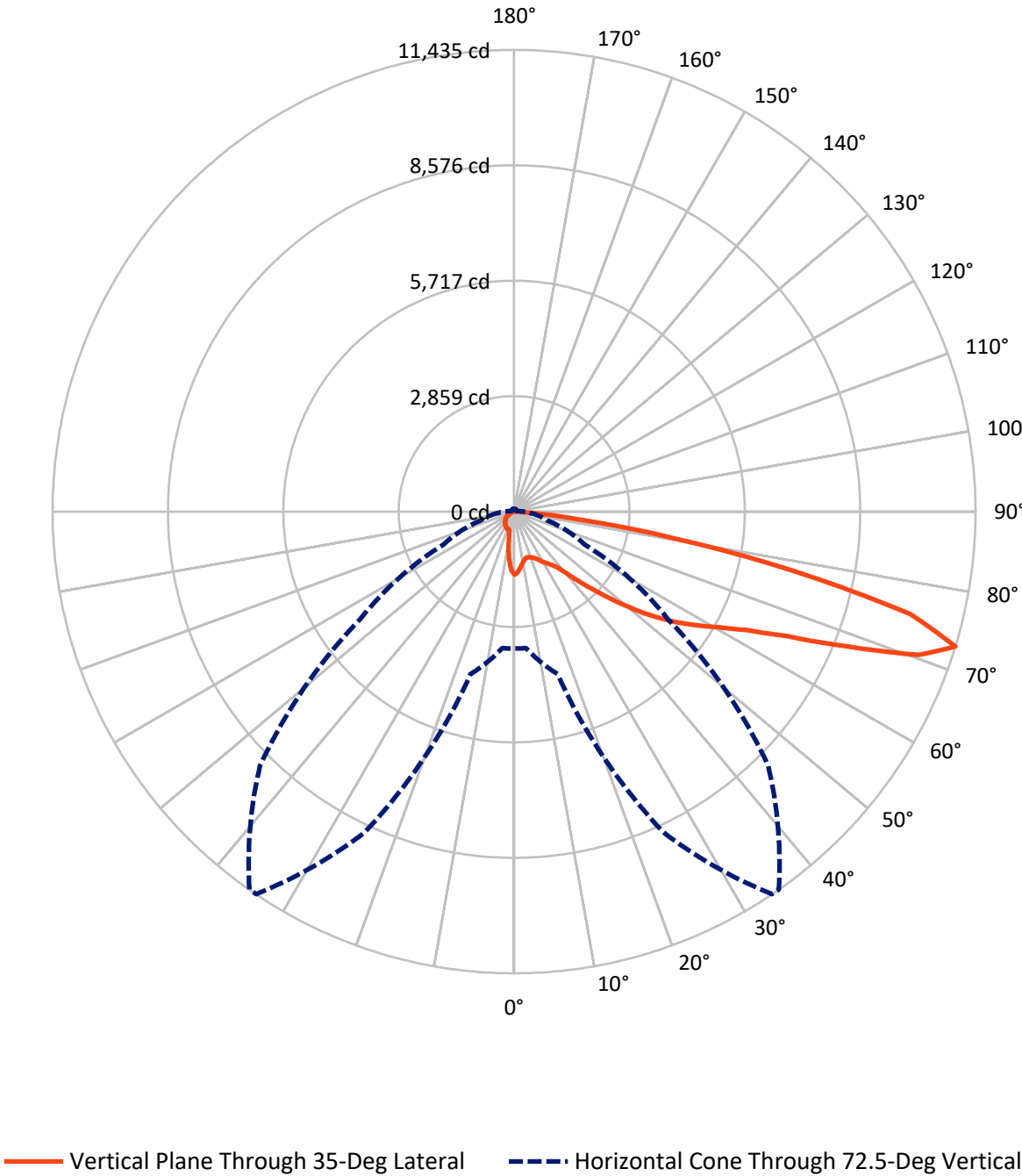


Based on 25 foot mounting height. Maximum calculated value = 2.5 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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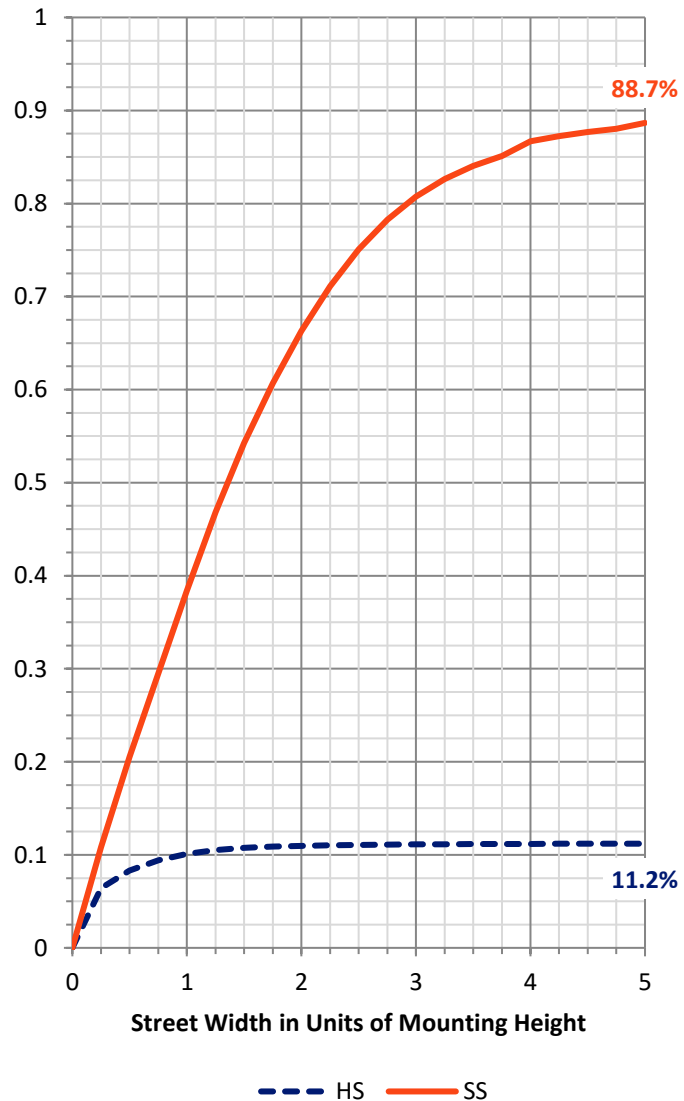
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1213.3	0.0	1213.3
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	9567.6	0.0	9567.6
	% Fixture	88.7	0.0	88.7
Total	Lumens	10780.9	0.0	10780.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.4	1.2
10°-20°	300.4	2.8
20°-30°	487.9	4.5
30°-40°	814.1	7.6
40°-50°	1540.4	14.3
50°-60°	2447.6	22.7
60°-70°	3027.9	28.1
70°-80°	1882.1	17.5
80°-90°	152.1	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°	10780.9	100.0
0°-180°	10780.9	100.0

Coefficient of Utilization



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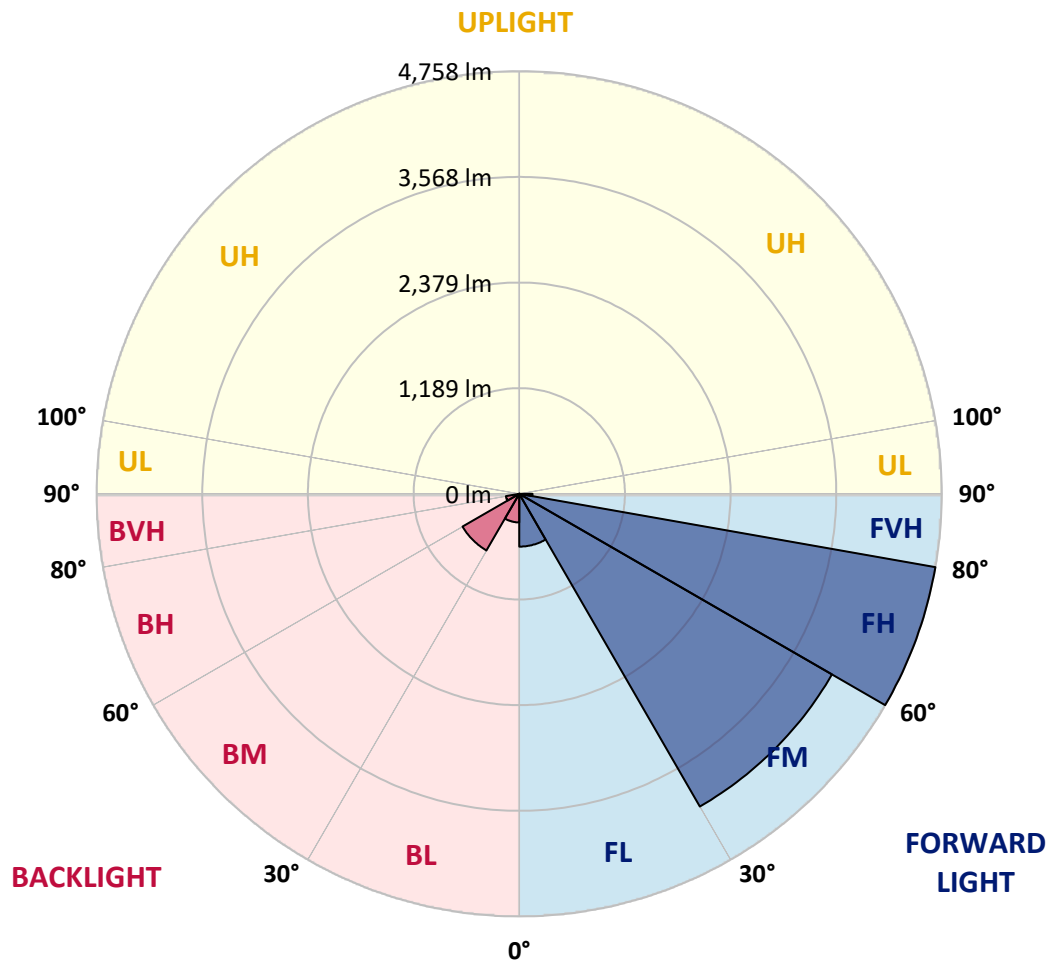
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	594.3	5.5			
FM	(30°-60°)	4065.5	37.7			
FH	(60°-80°)	4757.8	44.1			G2/5000
FVH	(80°-90°)	150.0	1.4			G2/225
BL	(0°-30°)	322.4	3.0	B1/500		
BM	(30°-60°)	736.6	6.8	B1/1000		
BH	(60°-80°)	152.2	1.4	B1/500		G1/500
BVH	(80°-90°)	2.1	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°	1562.5	1562.5	1562.5	1562.5	1562.5	1562.5	1562.5	1562.5	1562.5	1562.5	1562.5
2.5°	1493.0	1505.6	1508.0	1512.0	1512.0	1516.7	1524.6	1535.7	1553.8	1563.3	1569.6
5°	1376.1	1385.6	1397.4	1406.9	1425.1	1427.4	1458.3	1488.3	1530.1	1561.7	1583.8
7.5°	1258.4	1269.5	1285.2	1308.2	1331.9	1339.0	1385.6	1436.1	1502.4	1561.7	1598.9
10°	1175.5	1176.2	1190.4	1213.4	1251.3	1259.9	1316.8	1388.8	1471.7	1552.3	1613.0
12.5°	1128.8	1134.4	1140.7	1158.0	1194.4	1200.0	1260.8	1345.3	1440.8	1546.7	1629.6
15°	1128.8	1132.8	1136.7	1145.4	1174.6	1179.4	1233.1	1317.6	1425.1	1549.1	1656.5
17.5°	1140.7	1147.0	1143.8	1154.1	1184.9	1188.1	1235.4	1309.7	1424.2	1564.1	1697.6
20°	1169.1	1173.8	1167.6	1173.8	1204.7	1211.0	1259.9	1324.7	1437.7	1590.2	1749.0
22.5°	1214.1	1216.6	1201.5	1206.2	1237.9	1245.8	1302.7	1367.5	1470.1	1632.0	1817.6
25°	1271.0	1275.8	1252.9	1258.4	1288.4	1297.9	1363.5	1431.4	1521.4	1689.7	1905.4
27.5°	1336.6	1339.0	1319.2	1318.5	1357.1	1370.5	1436.9	1510.3	1590.2	1762.4	2016.0
30°	1411.6	1418.7	1399.8	1396.7	1445.6	1456.6	1522.2	1607.5	1691.2	1871.3	2173.1
32.5°	1470.9	1476.4	1465.3	1473.2	1523.0	1531.8	1625.8	1745.0	1850.0	2026.2	2387.2
35°	1556.2	1559.3	1534.1	1548.3	1605.1	1627.3	1767.1	1937.8	2049.9	2220.6	2666.8
37.5°	1865.1	1865.1	1757.7	1687.4	1741.9	1761.6	1960.6	2180.3	2296.4	2481.2	3019.2
40°	2292.4	2285.3	2128.1	1984.4	1977.2	2016.0	2236.3	2485.9	2614.8	2794.0	3415.7
42.5°	2748.2	2737.2	2523.1	2380.9	2357.2	2370.6	2554.7	2862.8	2993.9	3175.6	3842.3
45°	3152.7	3149.5	2953.6	2762.5	2719.8	2762.5	2952.0	3303.6	3397.6	3588.7	4268.1
47.5°	3491.6	3491.6	3348.6	3223.8	3201.7	3226.9	3490.0	3792.5	3783.9	4028.8	4682.8
50°	3881.8	3878.7	3742.8	3689.1	3711.9	3747.5	4109.3	4307.6	4183.5	4460.8	5053.4
52.5°	4155.1	4174.1	4127.5	4118.8	4235.7	4297.3	4738.2	4811.6	4541.5	4870.8	5330.6
55°	4371.6	4393.7	4447.4	4508.3	4733.3	4813.9	5347.2	5289.5	4840.8	5226.3	5490.1
57.5°	4678.1	4646.5	4729.5	4849.5	5213.7	5310.8	5937.3	5740.6	5081.7	5514.6	5507.5
60°	5050.2	5054.9	5069.1	5220.7	5693.2	5818.0	6518.7	6167.1	5236.6	5691.6	5314.8
62.5°	5497.3	5504.4	5533.6	5766.6	6337.0	6454.7	7138.0	6516.3	5307.7	5641.8	4817.1
65°	5466.4	5496.5	5822.7	6619.8	7315.7	7431.9	7860.8	6761.2	5200.2	5186.8	3922.1
67.5°	4979.9	5028.9	5574.7	7638.8	8791.3	8920.9	8734.4	6809.4	4736.5	4033.5	2558.6
70°	4341.6	4358.9	5015.4	8555.2	10500.0	10631.2	9516.5	6279.4	3594.3	2249.8	1146.3
72.5°	3390.5	3394.4	4164.6	8767.6	11427.4	11434.5	8902.7	4661.5	1933.0	864.2	398.1
75°	2422.0	2398.3	2789.3	7110.3	10053.7	10134.3	6674.3	2186.6	738.6	408.4	198.2
77.5°	1298.7	1324.7	1578.3	4216.7	6945.2	7082.6	3641.6	630.4	376.0	278.1	131.1
80°	401.3	423.4	647.0	1930.6	3934.0	4016.9	1350.0	280.4	262.3	198.2	86.1
82.5°	126.4	131.1	301.8	811.3	1632.8	1670.7	391.0	158.8	179.3	131.1	50.5
85°	36.4	37.1	134.3	302.6	403.6	411.5	109.8	61.6	102.7	81.4	26.0
87.5°	4.0	12.6	50.5	50.5	35.6	34.7	11.9	13.4	29.2	10.2	4.7
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°	1562.5	1562.5	1562.5	1562.5	1562.5	1562.5	1562.5	1562.5	1562.5	1562.5	1562.5
2.5°	1565.7	1566.5	1556.2	1538.8	1519.9	1504.1	1484.3	1468.5	1457.4	1454.3	1459.8
5°	1576.8	1571.2	1542.0	1489.0	1425.9	1371.3	1310.6	1262.4	1230.7	1217.3	1222.0
7.5°	1593.4	1577.6	1513.5	1409.3	1288.4	1181.0	1071.9	987.5	933.7	906.8	910.8
10°	1607.5	1575.9	1466.2	1294.0	1109.0	946.4	799.4	697.5	640.6	613.8	614.6
12.5°	1620.9	1575.1	1404.6	1157.3	906.8	707.8	571.1	520.6	504.8	499.3	497.6
15°	1646.3	1577.6	1327.1	1000.9	705.4	534.8	485.0	484.2	487.4	485.8	485.0
17.5°	1681.0	1579.9	1239.4	835.0	544.3	471.6	469.2	476.3	481.0	478.7	478.0
20°	1726.0	1589.4	1146.3	670.7	467.6	455.8	461.4	467.6	471.6	467.6	466.9
22.5°	1789.2	1606.0	1044.3	538.7	443.2	446.3	451.1	458.2	462.1	456.6	455.8
25°	1866.6	1632.0	944.0	468.4	431.3	435.2	442.4	450.3	455.0	449.5	448.6
27.5°	1967.0	1673.9	851.6	452.6	419.4	421.8	432.1	443.9	450.3	443.2	443.2
30°	2112.3	1742.6	771.8	459.7	412.4	406.8	421.1	437.7	444.7	438.4	437.7
32.5°	2305.1	1839.8	722.8	470.8	409.2	389.4	402.8	424.2	436.0	432.1	432.1
35°	2557.9	1987.5	703.9	483.5	406.8	371.3	380.8	403.6	424.2	428.1	428.1
37.5°	2864.4	2192.9	709.4	489.0	399.7	356.3	361.0	380.8	407.6	420.2	423.4
40°	3212.8	2432.2	741.0	483.5	391.9	343.6	344.4	359.5	383.1	402.1	408.4
42.5°	3572.1	2711.9	799.4	462.9	384.7	332.6	330.2	340.5	356.3	369.7	375.3
45°	3914.2	2999.5	857.1	434.5	376.0	321.5	316.0	319.9	323.1	328.6	331.8
47.5°	4212.9	3201.7	840.5	408.4	364.2	308.8	299.4	297.8	288.3	287.5	286.8
50°	4419.0	3245.9	746.5	382.3	346.8	294.7	279.6	270.2	253.6	245.7	246.5
52.5°	4484.6	3071.3	609.9	356.3	318.4	275.7	254.4	239.3	218.8	211.7	210.9
55°	4397.7	2729.3	487.4	324.7	278.9	250.4	226.7	206.9	190.3	181.7	181.7
57.5°	4185.2	2294.1	385.5	287.5	237.0	222.0	198.2	178.6	164.3	155.6	154.1
60°	3832.9	1821.6	304.9	243.3	202.2	191.2	166.7	154.1	141.4	131.1	128.7
62.5°	3298.0	1300.2	239.3	192.7	169.0	156.4	142.2	132.7	117.7	103.5	101.1
65°	2573.7	795.5	184.8	141.4	135.9	129.6	120.8	112.1	94.0	79.7	77.4
67.5°	1623.4	376.8	131.9	106.6	107.4	104.2	100.3	93.2	79.7	67.1	65.6
70°	714.9	182.4	86.9	81.4	79.7	79.7	82.9	80.6	68.0	56.1	53.7
72.5°	243.3	98.0	64.8	61.6	57.7	56.9	69.5	67.1	54.5	43.5	41.1
75°	127.2	65.6	47.4	44.3	34.7	41.8	55.2	52.2	38.7	28.4	26.0
77.5°	82.9	46.6	32.4	28.4	19.8	27.7	41.1	36.4	22.9	14.2	12.6
80°	52.2	30.9	19.0	13.4	9.4	15.0	22.1	15.8	8.7	3.2	2.4
82.5°	27.7	15.8	7.1	4.7	4.0	4.7	5.5	4.0	1.5	0.0	0.0
85°	11.1	5.5	2.4	1.5	0.8	0.0	1.5	0.8	0.0	0.0	0.0
87.5°	4.0	0.8	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)