

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: P964559

Luminaire Tested: **NAV-SB3C-735-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964559
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3C-735-U-SL3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22510 lumens
Efficiency: N/A
Efficacy: 151.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 149.1
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

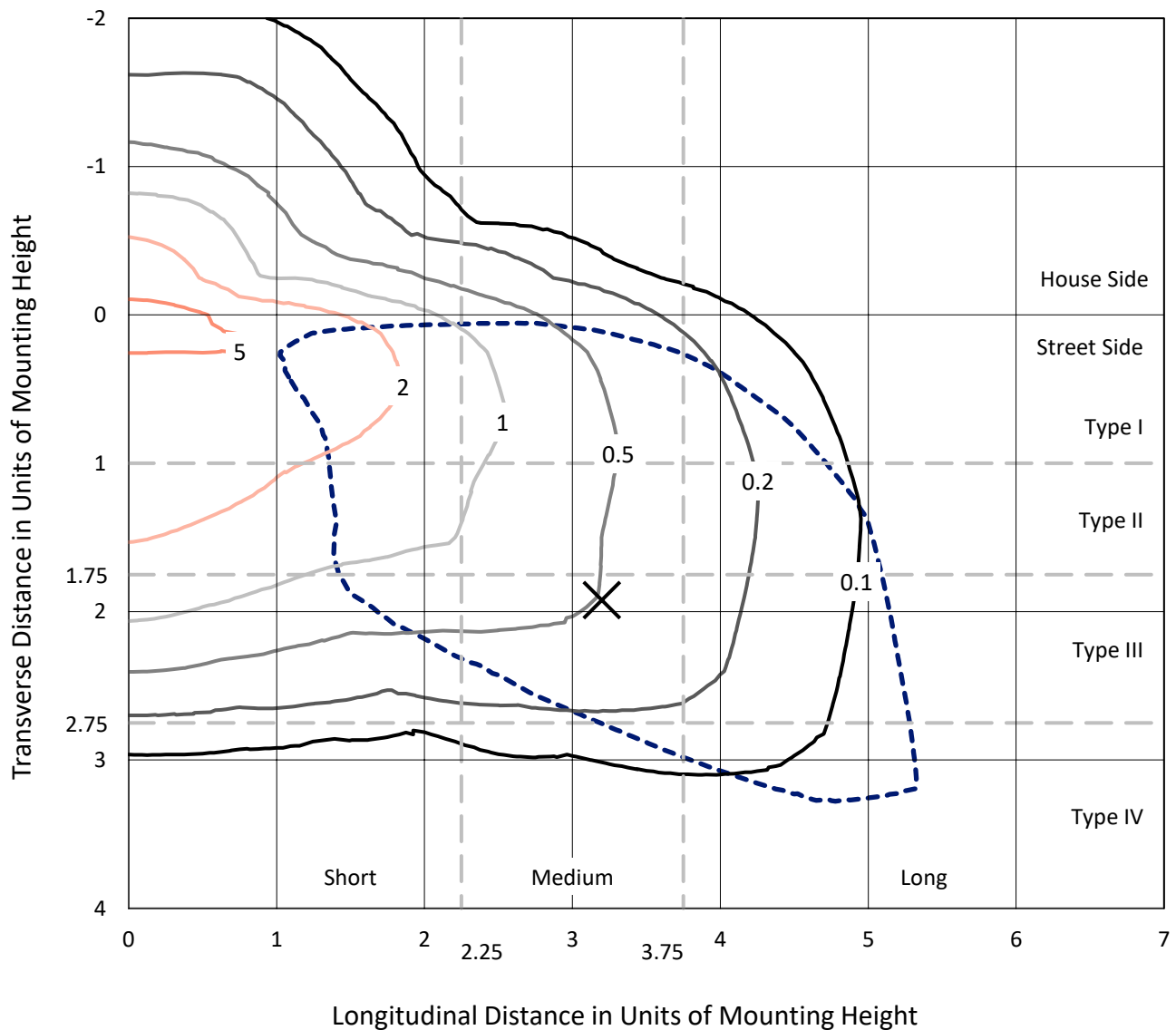


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Iso-Footcandle Lines of Horizontal Illumination

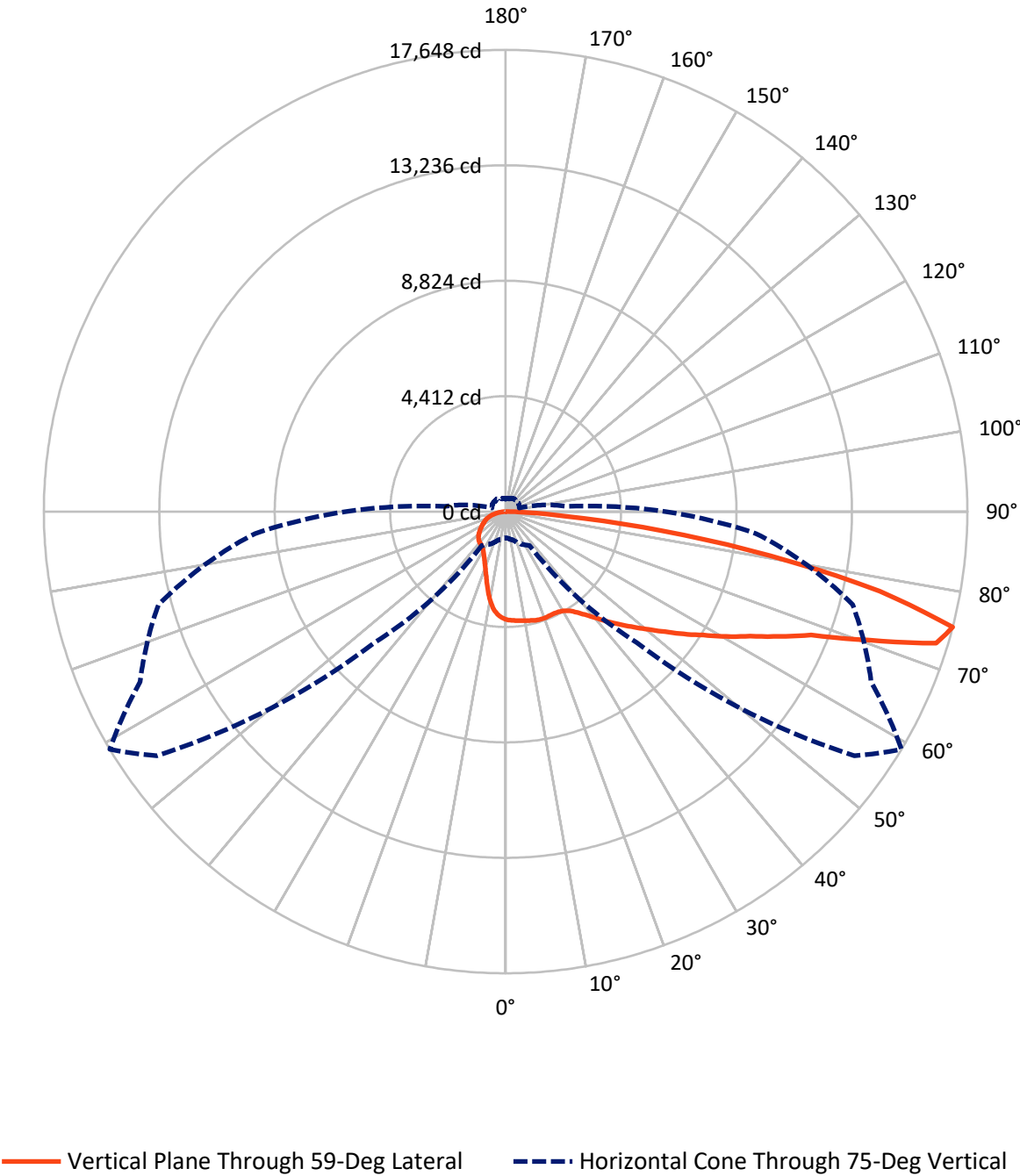
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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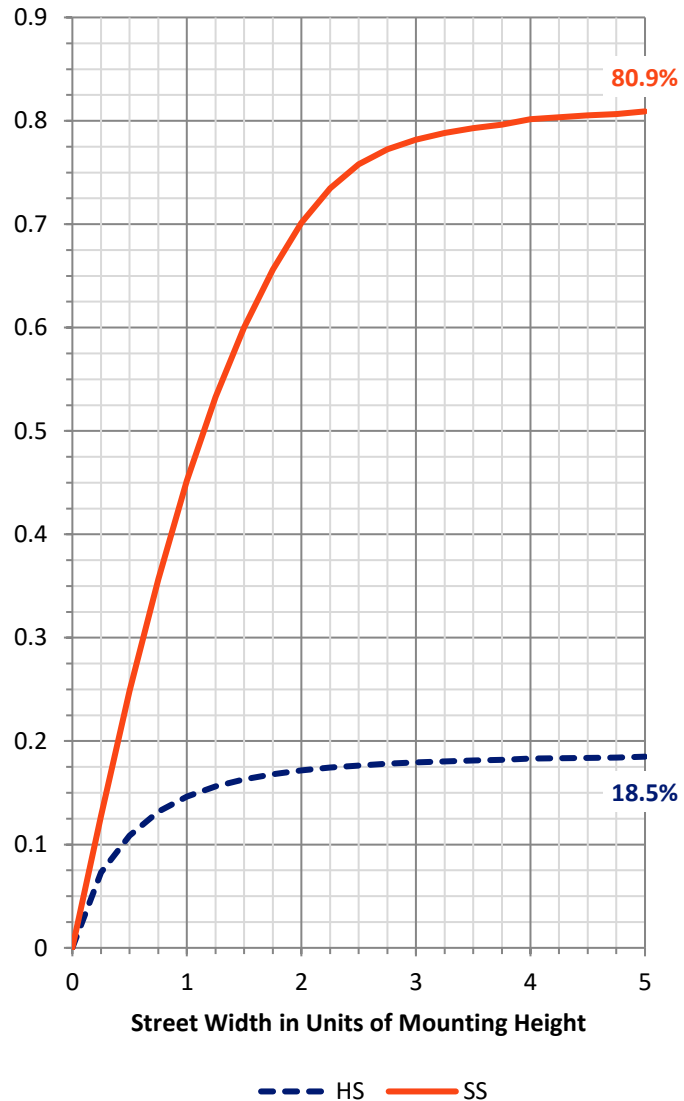
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4221.9	0.0	4221.9
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	18288.1	0.0	18288.1
	% Fixture	81.2	0.0	81.2
Total	Lumens	22510.0	0.0	22510.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	370.5	1.6
10°-20°	946.9	4.2
20°-30°	1438.3	6.4
30°-40°	2138.0	9.5
40°-50°	3179.6	14.1
50°-60°	4316.0	19.2
60°-70°	5269.1	23.4
70°-80°	4135.1	18.4
80°-90°	716.3	3.2
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°	22510.0	100.0
0°-180°	22510.0	100.0

Coefficient of Utilization



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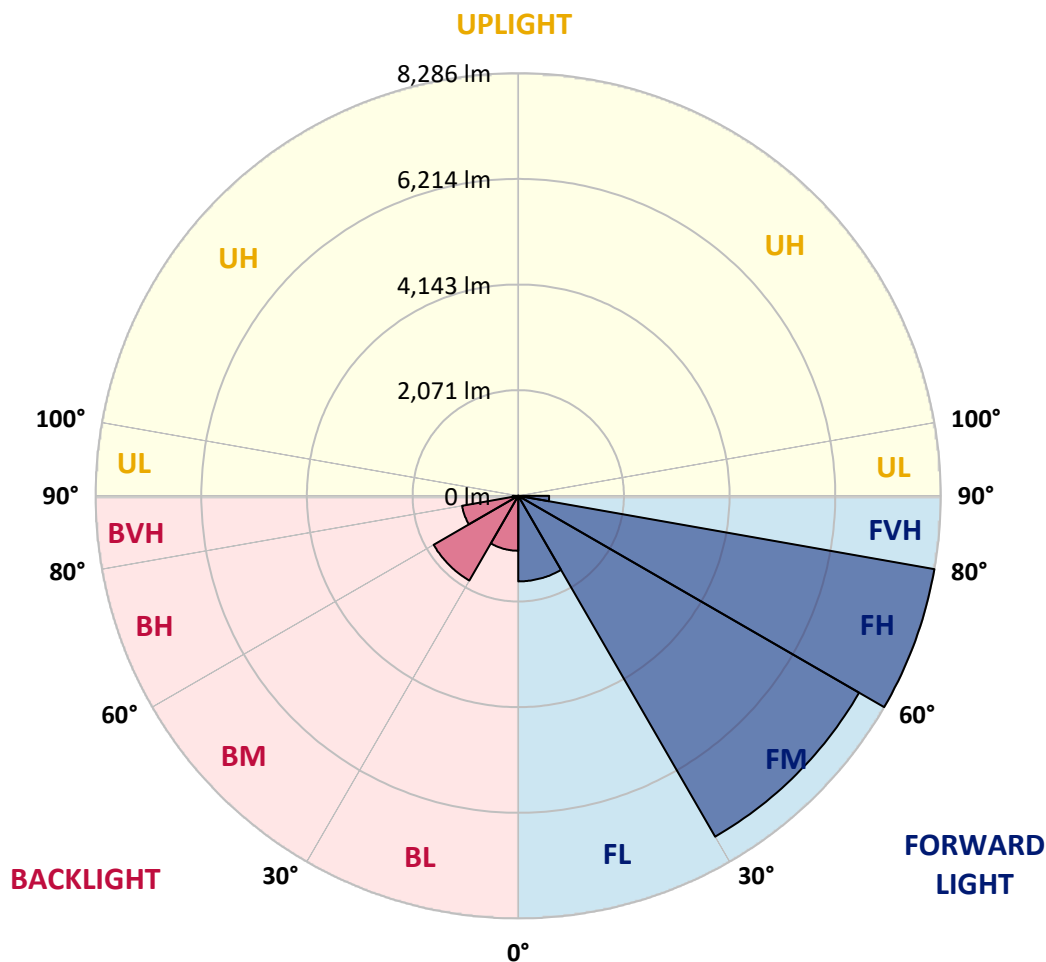
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1678.4	7.5			
FM	(30°-60°)	7717.4	34.3			
FH	(60°-80°)	8285.7	36.8			G4/12000
FVH	(80°-90°)	606.7	2.7			G4/750
BL	(0°-30°)	1077.4	4.8	B3/2500		
BM	(30°-60°)	1916.3	8.5	B2/2500		
BH	(60°-80°)	1118.5	5.0	B3/2500		G3/2500
BVH	(80°-90°)	109.6	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	4131.7	4131.7	4131.7	4131.7	4131.7	4131.7	4131.7	4131.7	4131.7	4131.7	4131.7
2.5°	4166.8	4152.3	4166.8	4160.7	4158.3	4153.5	4154.6	4163.1	4158.3	4164.4	4143.8
5°	4139.0	4130.4	4145.0	4141.3	4157.1	4159.6	4175.2	4185.0	4191.0	4192.2	4176.5
7.5°	4092.9	4084.4	4105.0	4121.9	4155.9	4165.6	4198.3	4214.0	4222.5	4237.0	4214.0
10°	3924.6	3920.9	3971.8	4036.0	4115.9	4165.6	4215.2	4241.9	4255.2	4293.9	4267.3
12.5°	3626.8	3631.6	3698.2	3821.7	3981.5	4141.3	4234.6	4273.3	4293.9	4342.4	4330.2
15°	3342.1	3340.9	3413.6	3545.6	3769.6	4034.8	4244.3	4310.8	4346.0	4417.4	4407.7
17.5°	3177.5	3172.6	3223.5	3324.0	3532.3	3871.3	4220.0	4331.4	4406.6	4496.2	4487.7
20°	3147.2	3137.5	3164.2	3213.8	3361.5	3692.0	4157.1	4331.4	4455.0	4571.2	4566.4
22.5°	3257.3	3241.7	3230.7	3224.6	3290.0	3544.3	4085.6	4316.9	4526.4	4679.0	4670.5
25°	3479.0	3454.8	3399.1	3344.6	3325.2	3477.7	4022.7	4313.3	4633.0	4824.3	4792.8
27.5°	3837.4	3807.2	3694.5	3563.7	3446.3	3511.6	3994.8	4335.1	4750.5	4978.1	4915.2
30°	4281.8	4249.1	4107.5	3906.5	3695.7	3637.6	4030.0	4399.3	4900.6	5182.7	5059.2
32.5°	4680.3	4643.9	4522.8	4318.1	4033.6	3855.5	4141.3	4521.6	5136.7	5467.3	5276.0
35°	5033.8	4991.4	4882.5	4693.6	4447.7	4161.9	4342.4	4738.4	5472.2	5929.9	5570.3
37.5°	5380.1	5330.5	5211.8	5012.0	4840.0	4570.1	4619.7	5016.9	5917.7	6491.7	5960.2
40°	5767.6	5696.1	5552.1	5354.7	5187.6	5048.3	4984.2	5358.3	6370.7	7119.0	6446.9
42.5°	6143.0	6075.2	5903.3	5734.9	5525.5	5485.5	5406.8	5757.9	6866.0	7808.0	6941.0
45°	6547.5	6466.3	6258.0	6044.9	5912.9	5776.1	5816.1	6157.6	7351.5	8510.4	7459.2
47.5°	6926.4	6835.6	6589.8	6352.5	6279.9	6020.7	6191.4	6597.1	7856.4	9222.3	7972.8
50°	7131.1	7041.5	6836.9	6622.5	6565.6	6322.2	6598.3	7080.3	8385.6	9931.9	8465.6
52.5°	7301.9	7205.0	6937.4	6818.7	6801.8	6650.4	7099.7	7632.5	8914.8	10559.2	8941.5
55°	7483.5	7375.7	7034.3	6927.7	7005.2	7018.5	7694.2	8258.5	9474.3	11170.8	9390.7
57.5°	7693.0	7556.2	7127.4	7019.7	7203.8	7449.6	8377.1	8907.6	10024.0	11737.5	9790.3
60°	7890.3	7752.3	7306.7	7166.2	7418.1	7949.7	9160.6	9693.4	10646.5	12242.4	10168.1
62.5°	7929.1	7815.3	7449.6	7448.4	7708.7	8533.3	10088.2	10486.6	11190.1	12741.4	10507.2
65°	7258.2	7186.8	6970.1	7437.5	8125.3	9373.7	11121.1	11501.3	11881.6	13177.3	10805.0
67.5°	5524.2	5533.9	5518.2	6420.3	7788.7	10581.1	12616.6	12587.5	12735.2	13666.4	11147.7
70°	2526.0	2582.9	2953.4	4432.0	6239.9	10720.3	15089.3	14712.7	13807.0	14299.8	11444.4
72.5°	1364.7	1408.4	1559.6	2147.0	3751.4	9531.2	16937.2	17204.7	15232.2	14726.0	11118.7
75°	1001.4	1025.6	1131.0	1364.7	1575.4	7083.9	16274.7	17647.9	15410.2	13731.8	9601.4
77.5°	749.6	760.4	846.4	1081.4	806.5	3734.5	13004.1	14615.8	13191.7	11282.2	7092.4
80°	543.7	555.9	620.0	811.3	565.5	1365.9	8929.3	10258.9	9034.7	7191.7	3534.7
82.5°	375.4	380.3	408.1	552.2	394.7	530.3	5066.5	6015.8	5043.5	2523.5	954.2
85°	226.4	232.5	244.6	322.1	224.1	251.8	2186.9	2262.0	1507.6	603.0	296.6
87.5°	93.3	99.3	109.0	135.6	88.4	70.2	360.9	452.8	282.2	176.8	92.0
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°	4131.7	4131.7	4131.7	4131.7	4131.7	4131.7	4131.7	4131.7	4131.7	4131.7	4131.7
2.5°	4137.7	4129.2	4106.3	4074.8	4045.7	4009.4	3993.6	3980.3	3968.2	3945.2	3934.3
5°	4163.1	4140.2	4078.4	3998.4	3907.6	3808.4	3711.5	3644.9	3587.9	3545.6	3510.4
7.5°	4201.9	4158.3	4045.7	3882.2	3673.9	3460.8	3268.3	3131.5	3028.5	2991.0	2925.6
10°	4241.9	4189.8	3993.6	3705.4	3345.8	3017.6	2762.1	2621.6	2539.3	2512.7	2471.5
12.5°	4289.1	4212.8	3912.5	3459.6	2978.9	2619.2	2396.4	2314.0	2271.7	2257.2	2260.7
15°	4358.1	4232.1	3790.1	3152.1	2628.9	2328.6	2184.5	2127.6	2105.8	2104.6	2109.4
17.5°	4410.2	4235.8	3600.1	2822.6	2360.1	2153.0	2034.3	2012.6	2027.0	2048.9	2057.4
20°	4468.3	4203.1	3350.6	2522.3	2171.2	1999.3	1949.5	1964.1	1999.3	2030.7	2041.6
22.5°	4509.5	4143.8	3049.1	2288.6	2007.7	1910.8	1908.4	1938.7	1958.1	1973.8	1982.2
25°	4545.8	4043.3	2729.4	2092.4	1873.3	1857.5	1884.2	1874.5	1861.2	1874.5	1883.0
27.5°	4572.4	3884.6	2443.6	1920.5	1778.9	1821.2	1805.4	1783.7	1782.5	1789.8	1801.8
30°	4563.9	3672.7	2208.7	1757.1	1712.3	1753.4	1715.8	1712.3	1708.6	1712.3	1725.6
32.5°	4563.9	3431.8	2028.3	1644.4	1669.8	1654.1	1650.5	1642.0	1627.5	1626.3	1642.0
35°	4589.4	3190.8	1873.3	1583.9	1634.8	1597.2	1599.6	1579.0	1548.8	1534.2	1548.8
37.5°	4641.5	2997.0	1719.5	1554.8	1573.0	1571.7	1562.1	1526.9	1473.6	1427.7	1443.4
40°	4767.4	2940.1	1614.2	1541.5	1544.0	1558.4	1533.0	1465.2	1344.1	1269.1	1278.7
42.5°	4964.8	3035.7	1591.1	1508.8	1524.6	1539.0	1489.4	1332.0	1246.0	1201.2	1201.2
45°	5215.4	3202.9	1640.8	1461.5	1478.6	1504.0	1356.3	1281.1	1242.4	1243.6	1249.7
47.5°	5532.7	3378.5	1732.9	1420.4	1411.9	1426.5	1267.8	1221.8	1168.5	1181.8	1215.8
50°	5899.6	3556.4	1820.0	1364.7	1338.0	1290.9	1210.9	1167.4	1099.5	1068.0	1076.6
52.5°	6296.8	3728.4	1855.1	1296.9	1258.2	1203.7	1172.2	1118.9	1036.6	984.5	983.3
55°	6673.4	3884.6	1816.4	1215.8	1178.2	1135.8	1131.0	1098.3	1009.9	937.3	937.3
57.5°	7029.4	4015.4	1719.5	1133.4	1097.1	1071.6	1104.3	1088.7	977.2	884.0	879.1
60°	7330.9	4105.0	1579.0	1049.9	1024.5	1011.2	1060.8	1056.0	931.2	827.1	823.4
62.5°	7570.6	4140.2	1424.0	970.0	963.9	939.7	1000.2	1000.2	873.1	771.3	767.7
65°	7758.3	4106.3	1266.6	891.2	903.3	867.0	926.4	919.1	811.3	721.7	716.9
67.5°	7924.3	3994.8	1092.2	813.7	841.6	795.6	848.9	831.9	743.5	672.1	667.2
70°	7998.2	3735.7	893.7	736.3	770.2	725.4	771.3	739.8	667.2	618.8	609.1
72.5°	7404.8	3104.8	703.6	655.1	684.2	647.8	687.8	651.5	584.9	563.0	544.9
75°	6126.0	2329.8	541.3	566.7	588.6	560.7	587.3	560.7	500.1	515.9	471.1
77.5°	4448.9	1573.0	414.1	473.4	483.2	468.6	491.6	461.4	406.8	403.2	385.1
80°	2212.4	921.5	324.5	374.1	370.5	360.9	387.4	373.0	327.0	346.3	342.7
82.5°	640.6	394.7	236.2	262.8	255.5	257.9	277.3	284.5	426.2	422.6	432.3
85°	201.0	155.0	141.7	146.5	139.3	142.9	163.5	324.5	300.3	175.6	190.1
87.5°	52.1	53.3	35.2	37.5	38.7	46.0	52.1	197.4	94.4	61.8	65.4
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)