

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: P622607

Luminaire Tested: **PRV-M-PA6A-8540-U-T3**

Issue Date: 9/29/2022

Test Information

Test Method: LM-79-08
Report Number: P622607
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2207-719-10)
Test Lab: INNOVATION CENTER
Issue Date: 9/29/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-M-PA6A-8540-U-T3
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE
(6) 85 CRI, 4000K LIGHT ENGINES AND TYPE III OPTICS, BRONZE PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32224.4 lumens
Efficiency: N/A
Efficacy: 117.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 273.8
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: 28.75 FT

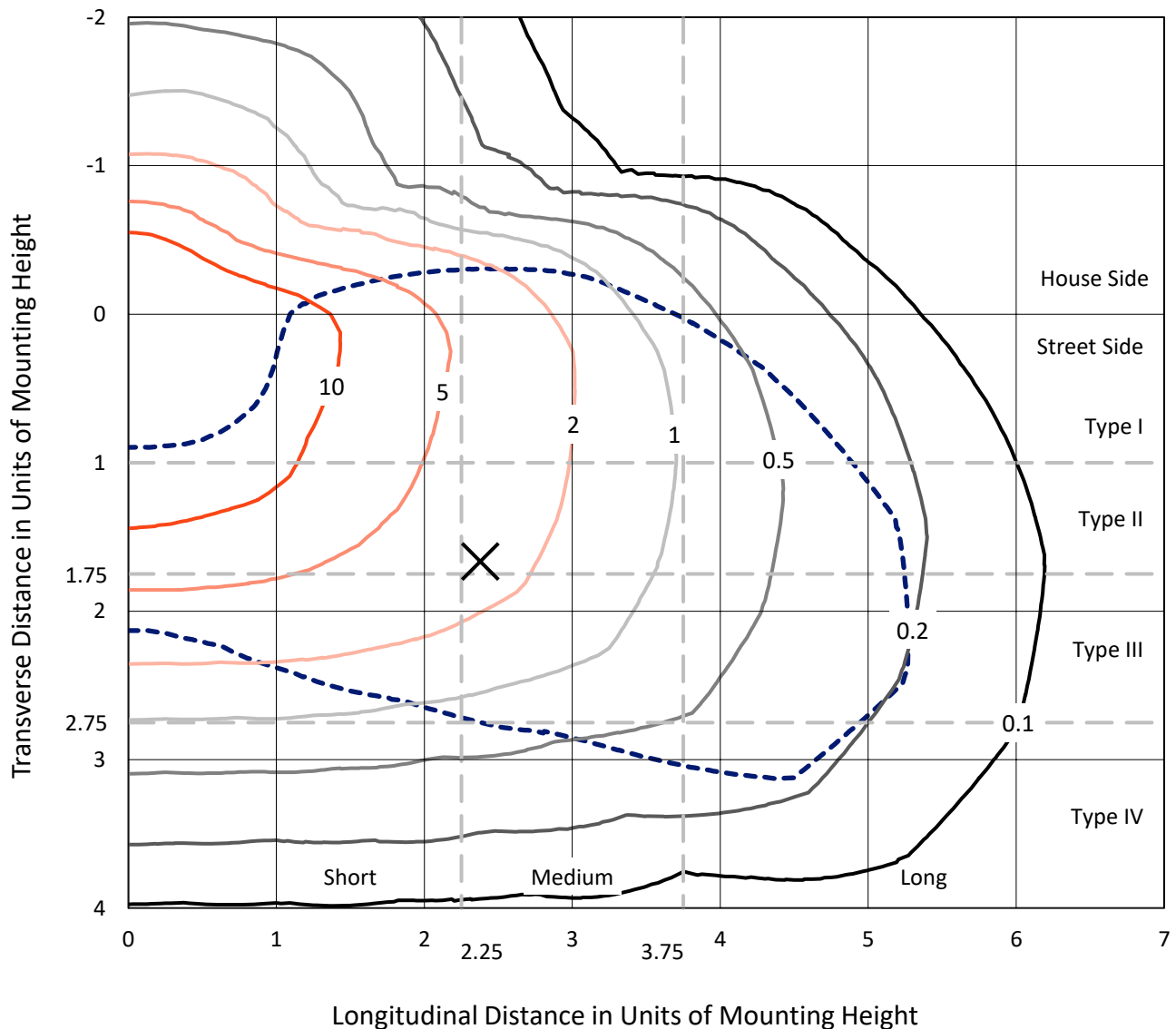


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

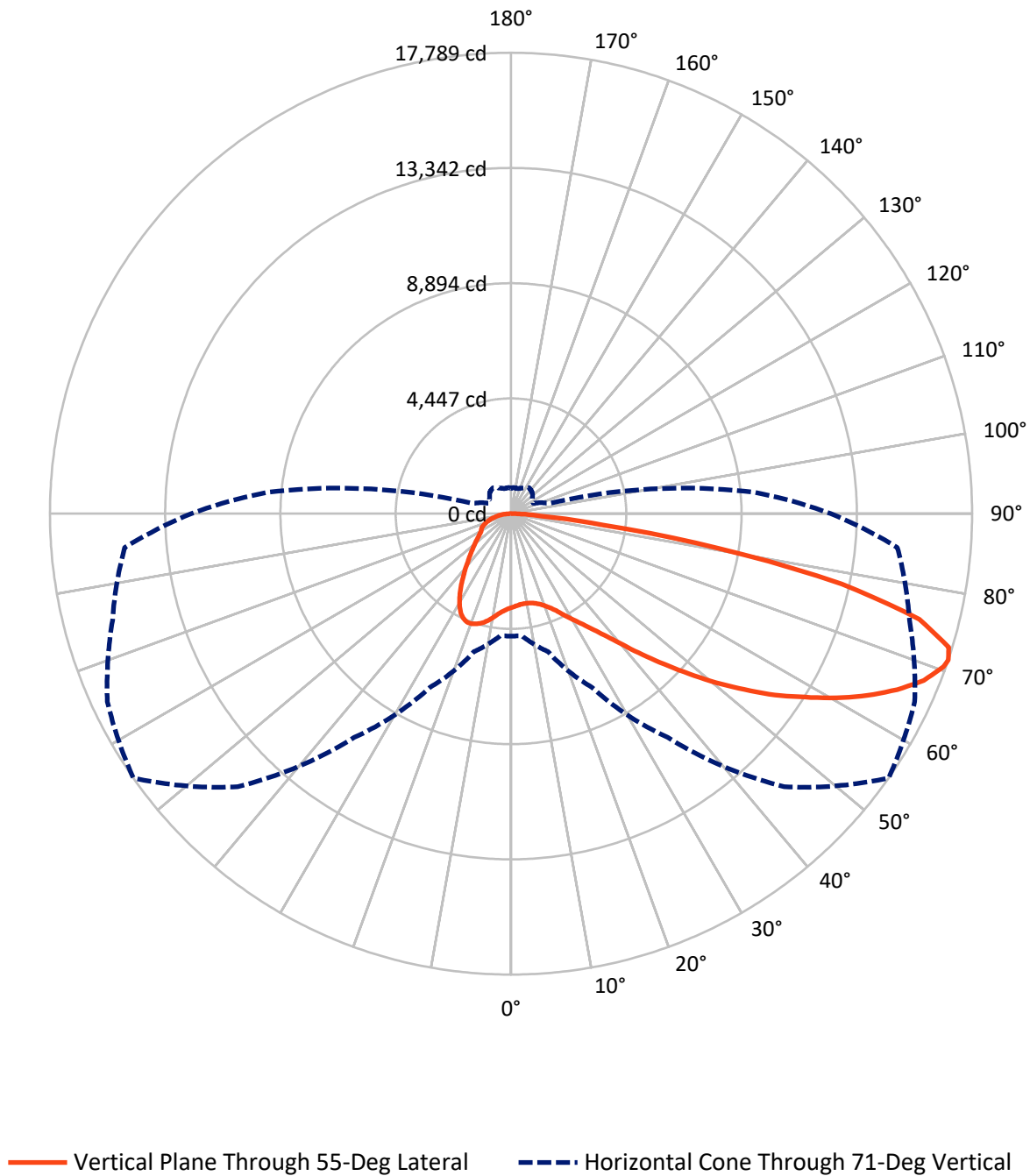


Based on 15 foot mounting height. Maximum calculated value = 17.8 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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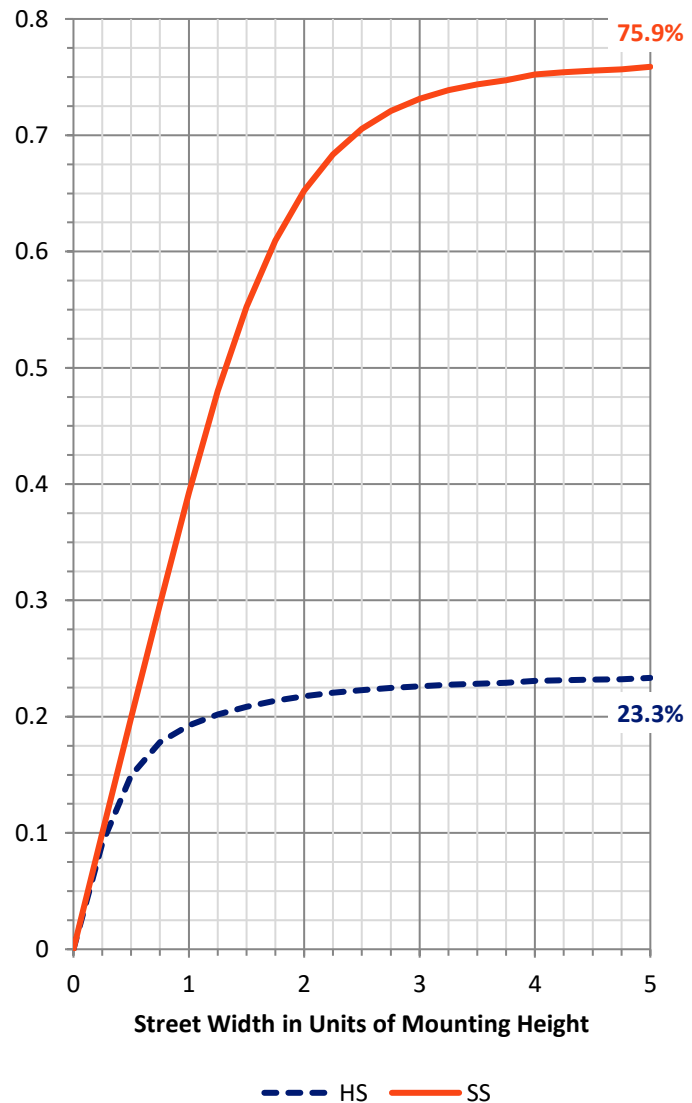
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7656.0	0.0	7656.0
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	24568.4	0.0	24568.4
	% Fixture	76.2	0.0	76.2
Total	Lumens	32224.4	0.0	32224.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	353.6	1.1
10°-20°	1123.8	3.5
20°-30°	1981.2	6.1
30°-40°	2967.8	9.2
40°-50°	4644.3	14.4
50°-60°	6826.8	21.2
60°-70°	7995.8	24.8
70°-80°	5415.7	16.8
80°-90°	915.6	2.8
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°	32224.4	100.0
0°-180°	32224.4	100.0

Coefficient of Utilization



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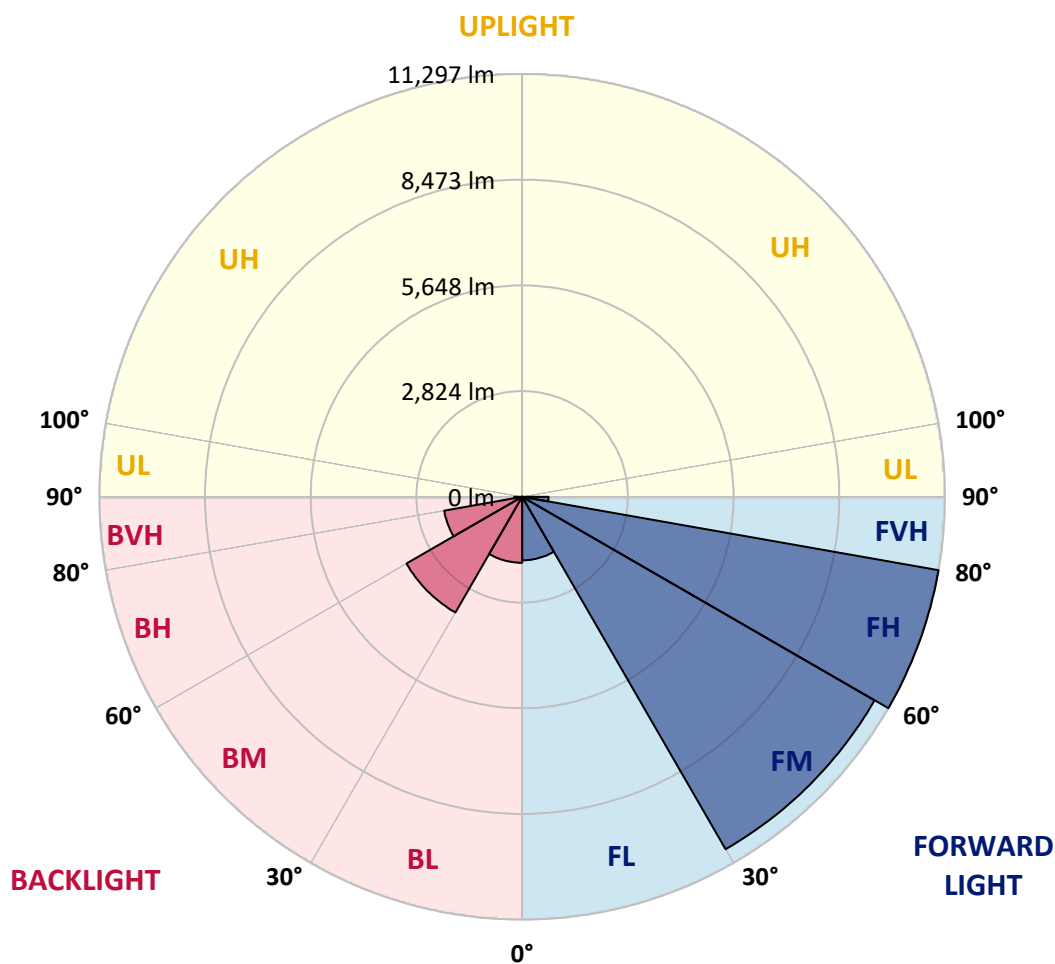
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1695.3	5.3			
FM	(30°-60°)	10871.8	33.7			
FH	(60°-80°)	11296.8	35.1			G4/12000
FVH	(80°-90°)	704.5	2.2			G4/750
BL	(0°-30°)	1763.3	5.5	B3/2500		
BM	(30°-60°)	3567.0	11.1	B3/5000		
BH	(60°-80°)	2114.6	6.6	B3/2500		G3/2500
BVH	(80°-90°)	211.1	0.7			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°	65°	75°	85°	90°
0°	3626.9	3626.9	3626.9	3626.9	3626.9	3626.9	3626.9	3626.9	3626.9	3626.9	3626.9
2.5°	3572.0	3547.8	3548.6	3548.6	3545.4	3560.3	3568.1	3580.7	3592.4	3605.7	3619.0
5°	3480.4	3463.2	3468.7	3478.9	3485.1	3507.1	3525.1	3546.2	3565.8	3592.4	3610.4
7.5°	3392.7	3370.8	3388.0	3413.9	3432.7	3477.3	3510.2	3543.1	3572.0	3613.5	3640.2
10°	3346.5	3327.0	3348.1	3381.0	3411.5	3464.8	3514.1	3565.0	3616.7	3684.8	3717.7
12.5°	3362.2	3342.6	3359.1	3392.7	3424.1	3478.1	3536.0	3615.9	3691.1	3774.1	3817.1
15°	3437.4	3419.4	3430.3	3453.8	3471.8	3520.4	3591.6	3690.3	3783.5	3881.3	3926.7
17.5°	3607.3	3583.0	3571.3	3558.7	3561.9	3595.5	3677.8	3793.6	3898.6	4005.0	4050.5
20°	3857.1	3828.9	3806.2	3743.5	3705.2	3731.8	3804.6	3921.3	4033.2	4140.5	4185.1
22.5°	4201.6	4156.9	4108.4	4000.3	3922.8	3916.6	3962.0	4076.3	4184.4	4282.2	4334.7
25°	4531.2	4495.2	4445.9	4311.2	4191.4	4147.6	4176.5	4271.3	4360.5	4431.8	4477.2
27.5°	4914.1	4860.9	4769.3	4638.5	4503.0	4426.3	4453.7	4521.0	4586.0	4614.2	4640.8
30°	5325.9	5271.9	5174.8	4993.2	4833.5	4747.3	4752.8	4852.3	4869.5	4835.8	4849.1
32.5°	5857.5	5803.5	5688.4	5444.1	5234.3	5103.6	5094.2	5163.9	5165.5	5098.1	5095.0
35°	6530.9	6462.8	6299.2	6001.6	5722.9	5524.8	5507.5	5571.7	5576.4	5491.1	5465.3
37.5°	7282.6	7238.8	7086.1	6664.8	6298.4	6068.2	6006.3	6119.8	6152.7	6034.5	5981.3
40°	8141.6	8104.8	7995.1	7466.6	7004.6	6739.2	6656.2	6773.7	6848.0	6726.7	6657.0
42.5°	9103.9	9064.7	8840.8	8338.1	7865.9	7524.6	7440.0	7534.7	7699.2	7478.4	7342.9
45°	10146.0	10114.7	9755.3	9329.4	8854.1	8532.3	8290.3	8355.3	8532.3	8349.8	8114.9
47.5°	10958.8	10883.6	10633.8	10354.3	9998.0	9595.6	9224.4	9247.2	9390.4	9215.0	8853.3
50°	11561.7	11542.9	11338.5	11197.6	11201.5	10837.4	10251.0	10169.5	10317.5	10085.0	9652.0
52.5°	12096.5	12031.5	11859.2	11918.0	12271.9	12195.9	11272.8	11089.6	11283.7	11021.4	10471.8
55°	12209.2	12072.2	12159.1	12499.7	13170.0	13305.4	12355.7	12129.4	12282.8	12034.6	11322.1
57.5°	11925.8	11906.2	12213.9	12830.2	13862.9	14108.8	13355.6	13163.7	13174.7	13032.2	12152.9
60°	11239.9	11308.0	11986.1	12939.0	14411.0	14828.4	14438.4	14187.9	14063.4	14059.5	12927.3
62.5°	10167.2	10283.8	11197.6	12703.3	14565.3	15396.1	15443.0	15169.8	14885.5	14938.0	13557.6
65°	8798.5	8814.2	9849.3	11972.0	14202.8	15785.9	16373.9	16046.6	15577.7	15661.4	13886.4
67.5°	7200.4	7205.9	8179.1	10449.1	13343.0	15913.5	17174.9	16687.9	15971.5	15903.4	13731.4
70°	5461.3	5478.6	6237.3	8406.2	11554.7	15432.9	17703.5	17110.7	16024.7	15425.0	12904.5
71°	4723.8	4726.2	5509.9	7399.3	10542.2	14904.3	17788.8	17182.8	15916.7	14959.9	12333.7
72.5°	3532.1	3526.6	4209.4	5814.5	8800.1	13651.5	17660.4	17114.7	15608.2	13971.0	11213.3
75°	1854.1	1858.1	2227.6	3368.5	5586.6	10327.7	16269.0	16098.3	14342.9	11510.8	8729.6
77.5°	970.1	970.9	1173.7	1698.3	2908.1	6123.0	13039.2	13613.2	11946.2	8178.4	5737.0
80°	646.8	650.7	758.7	1010.1	1595.0	2608.2	8157.2	9280.0	8030.4	4669.8	2991.1
82.5°	474.5	477.6	570.0	693.7	1075.8	1158.8	3589.3	4818.6	3923.6	1979.4	1226.2
85°	364.9	366.4	445.5	476.8	711.7	641.3	1163.5	1950.5	1524.5	404.8	343.0
87.5°	186.4	201.2	289.7	261.5	348.4	253.7	404.0	454.1	389.2	134.7	109.6
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3626.9	3626.9	3626.9	3626.9	3626.9	3626.9	3626.9	3626.9	3626.9	3626.9
2.5°	3630.0	3656.6	3673.8	3683.2	3702.8	3723.2	3750.6	3762.3	3769.4	3742.0
5°	3631.6	3681.7	3725.5	3770.1	3821.0	3865.7	3918.1	3946.3	3958.1	3929.1
7.5°	3672.3	3745.1	3817.1	3889.2	3967.5	4027.8	4100.6	4139.7	4164.8	4141.3
10°	3763.9	3866.5	3964.3	4048.9	4124.1	4184.4	4247.0	4284.6	4308.1	4279.9
12.5°	3876.6	4005.0	4121.7	4213.3	4279.1	4317.5	4357.4	4377.8	4393.4	4367.6
15°	3993.3	4141.3	4266.6	4348.0	4380.9	4402.8	4413.0	4413.0	4420.0	4390.3
17.5°	4128.8	4278.3	4396.5	4444.3	4451.4	4431.0	4415.3	4395.0	4380.9	4351.9
20°	4265.8	4411.4	4512.4	4512.4	4453.7	4387.9	4324.5	4281.4	4258.7	4229.0
22.5°	4409.1	4543.0	4597.8	4519.5	4370.7	4248.6	4163.2	4097.4	4074.7	4047.3
25°	4549.2	4669.8	4643.2	4438.8	4211.0	4027.8	3913.4	3850.0	3819.5	3799.1
27.5°	4700.3	4788.0	4629.1	4282.2	3956.5	3760.7	3634.7	3549.3	3507.8	3482.8
30°	4899.2	4905.5	4551.6	4031.7	3656.6	3427.2	3293.3	3202.5	3178.2	3158.6
32.5°	5129.4	5014.3	4409.1	3727.1	3313.7	3070.9	2942.5	2890.1	2854.8	2845.4
35°	5480.9	5124.0	4217.2	3412.3	2955.8	2741.3	2630.9	2573.7	2524.4	2507.2
37.5°	5933.5	5219.4	3963.5	3065.4	2643.4	2457.8	2362.3	2273.0	2190.8	2172.8
40°	6462.0	5307.9	3668.4	2767.9	2388.9	2241.7	2131.3	2004.5	1883.9	1865.1
42.5°	7021.9	5365.8	3370.0	2482.9	2200.2	2067.9	1919.1	1770.4	1663.9	1633.3
45°	7602.1	5355.6	3053.7	2240.9	2052.2	1907.4	1746.9	1611.4	1512.8	1494.7
47.5°	8112.6	5285.2	2772.6	2035.0	1908.2	1770.4	1616.1	1496.3	1412.5	1394.5
50°	8647.4	5174.1	2530.7	1854.1	1779.0	1663.9	1516.7	1414.1	1336.6	1320.1
52.5°	9130.5	5065.2	2251.1	1692.8	1671.7	1581.7	1455.6	1380.4	1284.9	1263.0
55°	9617.5	4968.1	1968.5	1544.9	1584.8	1524.5	1436.0	1394.5	1291.2	1258.3
57.5°	10136.6	4836.6	1708.5	1426.6	1512.0	1519.8	1468.1	1430.5	1331.9	1285.7
60°	10626.0	4579.8	1491.6	1338.9	1481.4	1566.8	1473.6	1348.3	1283.3	1241.8
62.5°	10996.4	4105.3	1338.9	1292.0	1501.8	1555.0	1376.5	1246.5	1216.0	1193.3
65°	11090.3	3355.9	1206.6	1245.0	1436.8	1457.2	1285.7	1170.6	1175.3	1156.5
67.5°	10770.1	2506.4	1092.3	1151.0	1313.1	1350.7	1203.5	1099.3	1140.0	1120.5
70°	9910.4	1759.4	987.4	1048.4	1202.7	1256.7	1124.4	1026.5	1056.3	1028.9
71°	9430.4	1522.2	946.6	1003.8	1158.1	1219.1	1090.7	997.5	1011.6	977.2
72.5°	8399.2	1245.8	886.4	935.7	1088.4	1161.2	1045.3	945.1	931.8	909.1
75°	6042.3	940.4	782.2	819.0	971.7	1061.0	949.0	858.2	819.8	806.5
77.5°	3618.2	729.0	668.7	695.3	862.1	950.6	851.9	764.2	730.5	717.2
80°	1656.0	571.6	549.7	570.8	736.0	840.2	761.1	677.3	635.8	618.6
82.5°	678.1	433.8	418.9	445.5	612.3	717.2	653.0	572.4	548.9	490.2
85°	314.0	285.0	281.9	303.8	430.6	527.7	479.2	418.9	357.8	346.9
87.5°	142.5	133.1	114.3	140.9	218.5	300.7	275.6	235.7	145.6	139.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)