

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: P622847

Luminaire Tested: **PRV-M-PA6D-8540-U-T2U-HSS**

Issue Date: 9/29/2022

Test Information

Test Method: LM-79-08
Report Number: P622847
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2207-719-9)
Test Lab: INNOVATION CENTER
Issue Date: 9/29/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-M-PA6D-8540-U-T2U-HSS
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE
(6) 85 CRI, 4000K LIGHT ENGINES AND TYPE II U OPTICS WITH HOUSE SIDE
SHIELD, BRONZE PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36989.7 lumens
Efficiency: N/A
Efficacy: 68.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 544
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

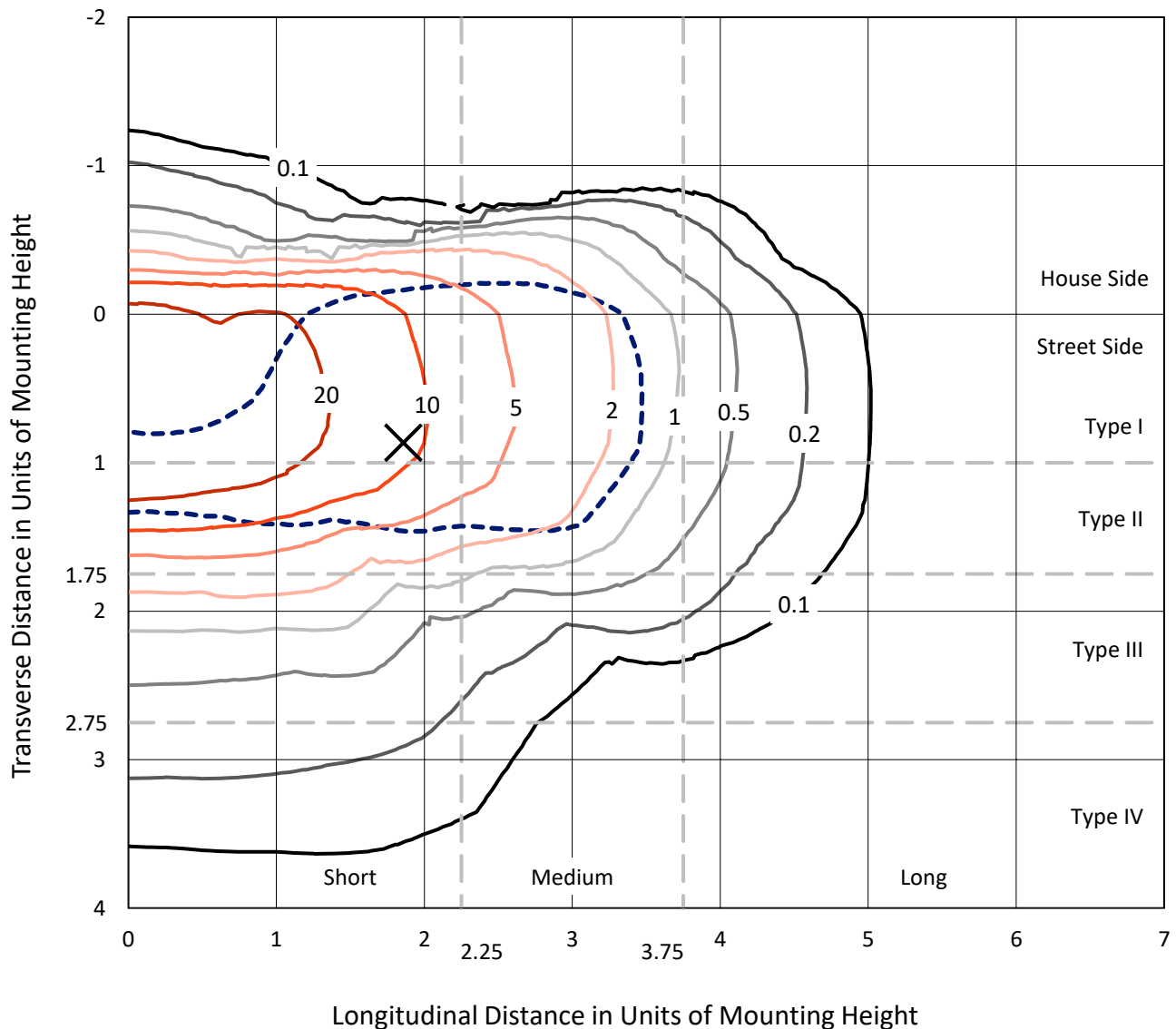


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

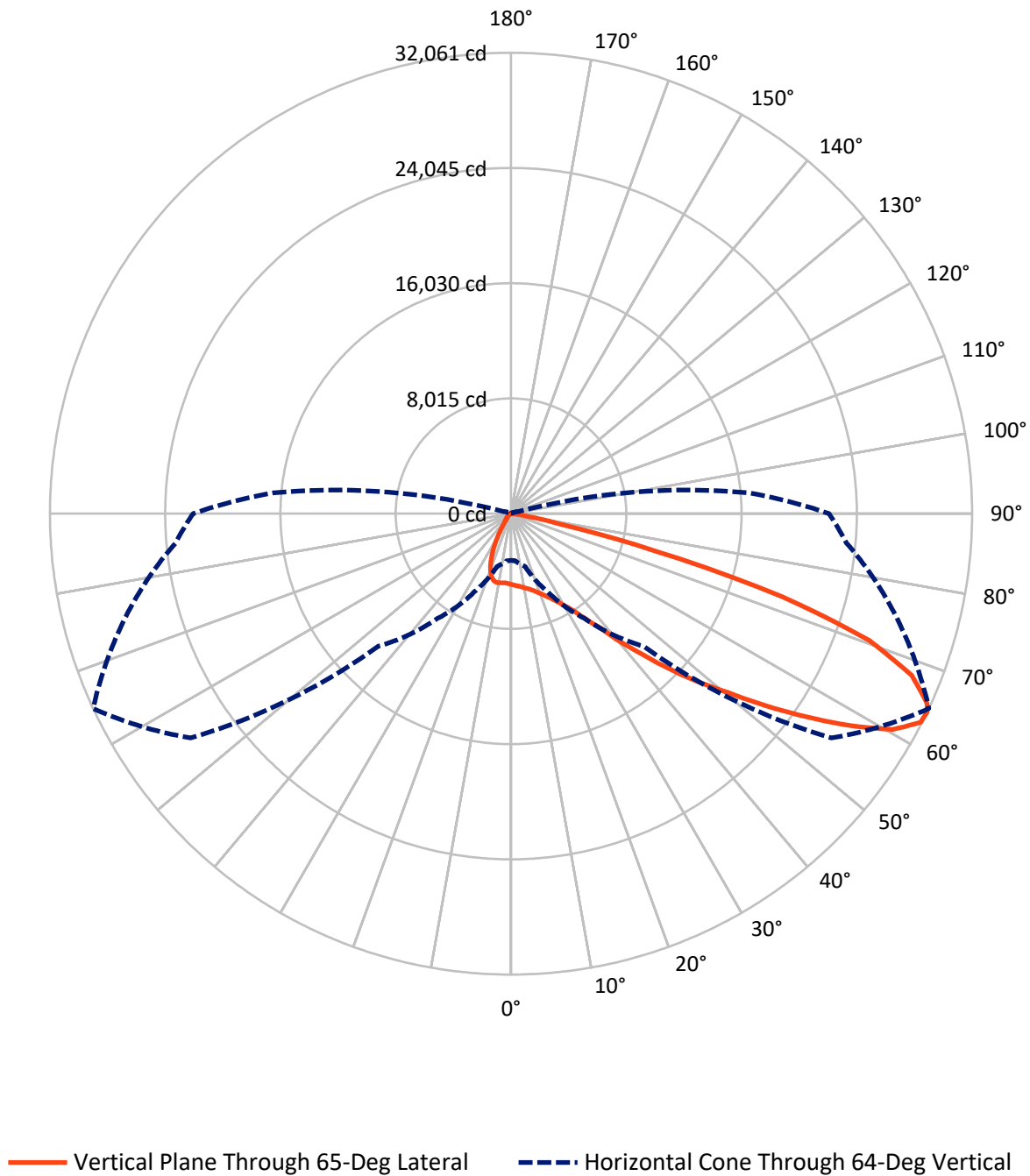


Based on 15 foot mounting height. Maximum calculated value = 35.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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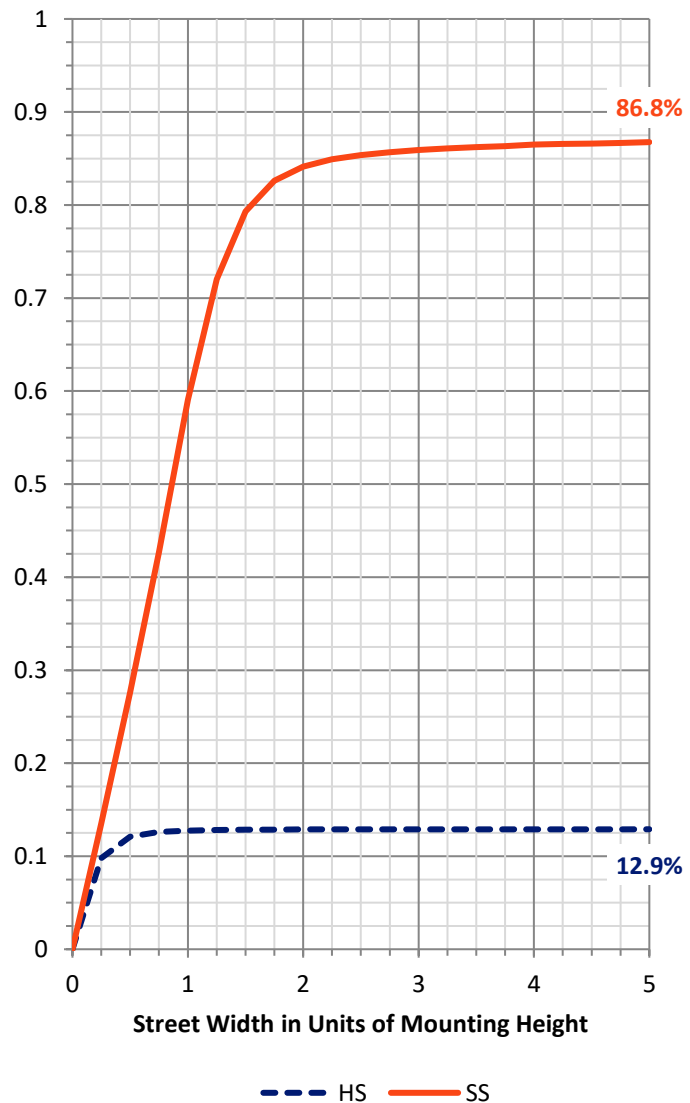
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4823.0	0.0	4823.0
	% Fixture	13.0	0.0	13.0
Street Side	Lumens	32166.7	0.0	32166.7
	% Fixture	87.0	0.0	87.0
Total	Lumens	36989.7	0.0	36989.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	464.8	1.3
10°-20°	1236.6	3.3
20°-30°	1987.4	5.4
30°-40°	3622.2	9.8
40°-50°	7381.0	20.0
50°-60°	10181.2	27.5
60°-70°	8563.3	23.2
70°-80°	3354.2	9.1
80°-90°	198.9	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°	36989.7	100.0
0°-180°	36989.7	100.0

Coefficient of Utilization



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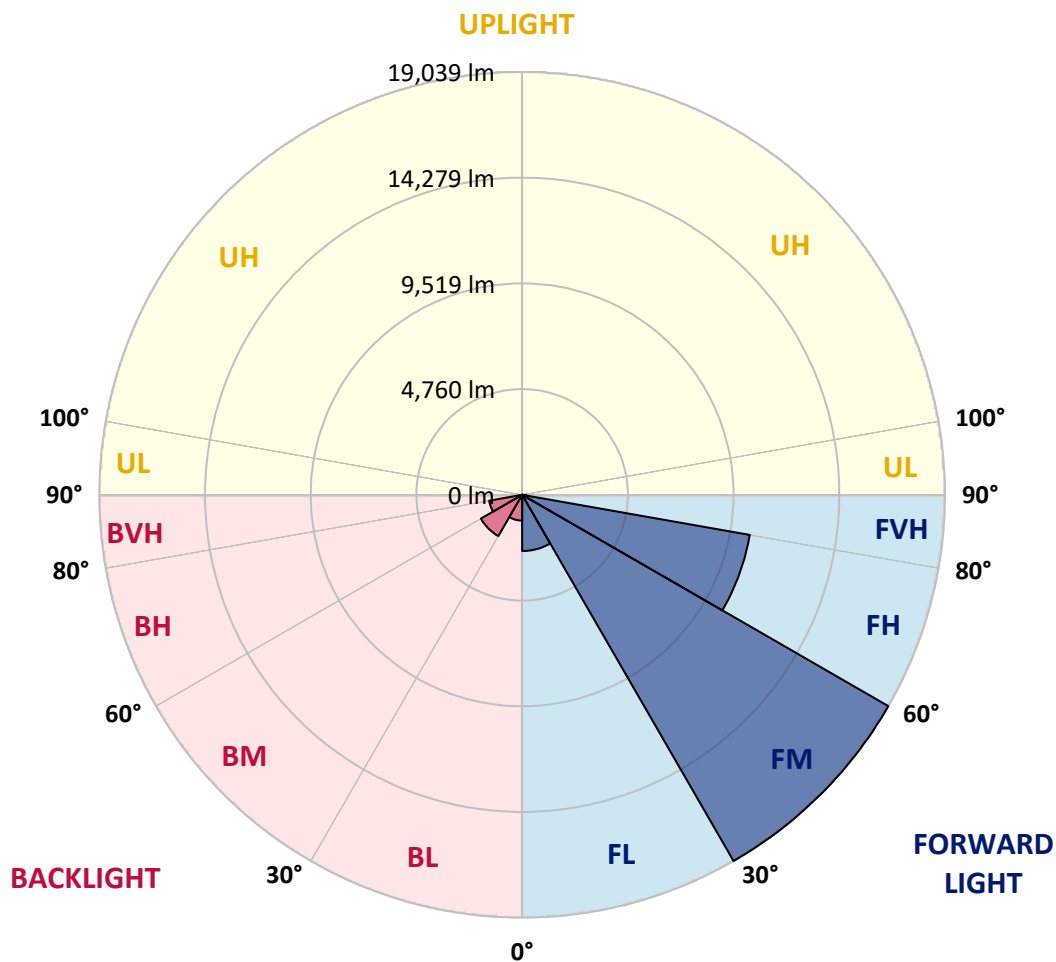
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2529.7	6.8			
FM	(30°-60°)	19038.8	51.5			
FH	(60°-80°)	10408.7	28.1			G4/12000
FVH	(80°-90°)	189.6	0.5			G2/225
BL	(0°-30°)	1159.2	3.1	B3/2500		
BM	(30°-60°)	2145.7	5.8	B2/2500		
BH	(60°-80°)	1508.8	4.1	B3/2500		G3/2500
BVH	(80°-90°)	9.3	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4922.9	4922.9	4922.9	4922.9	4922.9	4922.9	4922.9	4922.9	4922.9	4922.9	4922.9
2.5°	5119.6	5073.6	5068.5	5062.2	5043.0	5030.2	5008.5	4989.3	4961.2	4935.6	4919.0
5°	5192.5	5141.3	5140.1	5141.3	5124.7	5109.4	5085.1	5053.2	5008.5	4962.5	4933.1
7.5°	5202.6	5155.4	5159.3	5164.4	5161.8	5161.8	5156.7	5136.2	5095.4	5032.7	4996.9
10°	5249.9	5207.8	5205.2	5202.6	5198.8	5210.3	5238.4	5247.4	5209.1	5145.2	5096.6
12.5°	5361.1	5315.1	5312.6	5303.7	5294.6	5303.7	5344.5	5368.8	5344.5	5267.9	5211.6
15°	5511.9	5463.3	5458.2	5449.3	5442.9	5459.5	5492.7	5518.3	5490.2	5404.6	5334.3
17.5°	5684.3	5624.3	5638.4	5630.7	5632.0	5643.5	5683.1	5708.6	5672.8	5570.7	5482.5
20°	5874.8	5812.1	5839.0	5849.2	5845.3	5870.9	5922.0	5945.0	5886.2	5750.8	5643.5
22.5°	6092.0	6028.1	6075.3	6112.4	6077.9	6132.8	6204.3	6218.4	6143.0	5956.5	5818.6
25°	6374.3	6298.9	6353.9	6396.0	6325.8	6412.6	6518.7	6546.8	6459.9	6238.9	6056.2
27.5°	6825.3	6723.1	6729.5	6719.2	6632.4	6730.7	6884.1	6946.7	6844.5	6576.2	6356.4
30°	7836.0	7659.6	7448.8	7165.2	7001.7	7138.4	7344.1	7453.9	7332.6	6965.9	6688.6
32.5°	9649.0	9370.5	8934.7	8112.0	7553.6	7631.5	7916.4	8086.4	7975.2	7542.1	7185.6
35°	12254.2	11845.3	11064.7	9983.7	8630.7	8294.6	8651.1	9028.0	8920.7	8449.3	8002.0
37.5°	15351.2	14821.0	13754.1	12287.4	10324.9	9301.4	9631.1	10092.3	10149.8	9604.3	9070.2
40°	17953.9	17403.2	16498.6	14938.5	12755.0	10971.4	10929.2	11712.4	11644.7	10981.6	10340.2
42.5°	19857.6	19314.6	18721.7	17516.9	15804.8	13712.0	12671.9	13364.5	13277.6	12426.6	11684.3
45°	20960.2	20435.0	20096.5	19609.7	18639.9	17624.2	15030.5	15351.2	15021.6	13939.4	13048.9
47.5°	21270.7	20730.2	20695.7	20969.1	21194.0	21372.9	18020.3	17447.9	16812.9	15370.4	14426.2
50°	20235.8	19906.1	20384.0	21533.9	23128.4	24185.1	21388.2	19553.5	18665.5	16920.2	15813.7
52.5°	17184.7	17137.4	18458.5	20827.3	24192.7	26599.8	24651.4	22180.4	20522.0	18385.7	17179.6
55°	13154.9	13142.1	14875.9	18029.2	23594.8	27390.7	27413.7	24967.0	22287.7	19772.0	18487.9
57.5°	8960.3	9106.0	11446.7	14235.8	20395.5	26671.4	29110.5	27822.6	24080.3	21091.8	19720.9
60°	5600.0	5658.8	7635.3	10843.6	15583.7	23219.2	29592.2	30486.5	25628.8	22182.9	20817.1
62.5°	3893.1	3912.3	4763.1	7765.7	10982.8	17016.0	28688.8	31968.6	27050.8	23037.7	21708.9
64°	3251.6	3286.2	3807.5	5966.7	8886.2	13041.2	27196.5	32060.6	27731.8	23408.3	22107.5
65°	2887.5	2937.3	3332.1	4935.6	7758.0	10420.7	25494.6	31791.1	28102.4	23587.1	22274.9
67.5°	2270.4	2259.0	2455.7	3173.7	5601.3	5692.0	19280.0	30054.7	28457.6	23620.3	22300.5
70°	1985.5	1999.5	2092.8	2293.4	3942.9	3580.0	9985.0	26415.8	27208.0	22709.3	21316.7
72.5°	1551.1	1555.0	1776.0	1985.5	2610.3	2377.7	4291.7	19702.9	22594.3	19632.7	18155.7
75°	1031.1	1079.6	1318.6	1726.1	1786.2	1612.4	1871.8	10304.4	13694.1	13124.3	11677.9
77.5°	692.5	716.8	877.7	1275.1	1594.5	1024.7	1037.5	3449.7	5660.1	5072.4	4423.3
80°	439.5	456.1	577.5	884.2	1234.2	746.2	612.0	1226.6	1590.7	1056.7	859.9
82.5°	298.9	316.9	385.9	637.6	790.9	672.0	365.4	568.5	623.5	276.0	208.3
85°	134.1	185.3	272.2	424.2	514.9	347.5	224.9	283.7	342.4	127.8	71.6
87.5°	25.5	38.4	158.4	228.7	154.6	83.1	109.9	107.3	150.7	51.1	23.0
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4922.9	4922.9	4922.9	4922.9	4922.9	4922.9	4922.9	4922.9	4922.9	4922.9
2.5°	4906.3	4890.9	4867.9	4843.6	4816.9	4804.0	4797.7	4787.4	4784.9	4735.0
5°	4915.2	4876.8	4833.5	4787.4	4738.9	4710.8	4690.3	4664.8	4653.3	4606.0
7.5°	4970.2	4907.5	4842.4	4764.4	4664.8	4551.0	4400.3	4314.7	4247.0	4208.6
10°	5064.7	4975.3	4875.6	4704.4	4422.0	4069.4	3689.9	3435.6	3302.8	3290.0
12.5°	5165.6	5046.8	4884.5	4485.9	3863.7	3235.0	2661.4	2322.8	2164.4	2158.0
15°	5276.8	5127.3	4807.9	4031.0	3081.7	2281.9	1717.2	1424.6	1281.5	1273.9
17.5°	5410.9	5212.9	4602.2	3388.4	2225.7	1450.2	1080.9	937.8	895.7	890.5
20°	5557.9	5281.9	4244.4	2663.9	1483.4	986.3	830.4	756.4	724.4	719.3
22.5°	5713.8	5308.7	3776.8	1948.4	1022.1	789.6	686.1	615.8	582.6	577.5
25°	5918.1	5292.1	3218.4	1344.1	808.8	658.0	554.5	495.7	463.8	461.3
27.5°	6190.3	5226.9	2583.4	962.1	686.1	544.3	447.2	393.5	373.1	370.5
30°	6477.8	5027.6	1962.5	757.6	578.8	444.7	360.3	320.7	305.4	302.8
32.5°	6866.2	4740.1	1406.7	624.8	480.4	362.8	295.1	264.5	254.2	253.0
35°	7562.5	4483.4	953.1	514.9	392.3	297.7	246.6	224.9	219.8	219.8
37.5°	8505.5	4226.6	693.7	430.6	319.4	247.9	210.8	196.8	195.5	195.5
40°	9596.6	3917.3	553.3	362.8	267.0	212.1	182.7	172.5	175.1	175.1
42.5°	10700.5	3500.8	475.3	308.0	228.7	184.0	159.7	149.5	154.6	155.9
45°	11780.2	2947.6	419.1	264.5	200.6	159.7	138.0	129.0	135.5	135.5
47.5°	12744.7	2382.8	369.3	230.0	176.3	139.3	116.3	107.3	112.4	115.0
50°	13696.6	1828.4	323.2	203.2	158.4	120.1	97.1	89.4	94.6	97.1
52.5°	14537.3	1479.6	282.3	181.4	141.8	102.2	80.5	72.8	79.2	80.5
55°	15268.2	1206.1	244.1	162.2	123.9	85.6	65.1	60.1	66.5	67.7
57.5°	15886.6	997.9	210.8	144.4	108.6	72.8	55.0	51.1	56.2	58.8
60°	16315.8	811.3	178.8	127.8	93.3	61.3	46.0	42.1	46.0	46.0
62.5°	16548.4	658.0	153.3	112.4	80.5	53.6	39.6	31.9	34.5	34.5
64°	16576.5	583.9	139.3	103.5	72.8	49.8	34.5	25.5	26.9	26.9
65°	16548.4	537.9	127.8	97.1	69.0	47.3	31.9	20.4	20.4	21.7
67.5°	16180.5	442.1	104.8	81.7	57.5	39.6	23.0	12.8	12.8	12.8
70°	15177.4	339.8	86.9	66.5	47.3	33.2	17.9	8.9	7.7	7.7
72.5°	12185.1	233.8	69.0	49.8	37.0	26.9	12.8	5.1	2.6	2.6
75°	5702.3	149.5	48.5	33.2	25.5	20.4	8.9	2.6	0.0	0.0
77.5°	1668.7	85.6	30.7	21.7	17.9	14.0	7.7	1.3	0.0	0.0
80°	339.8	34.5	20.4	16.6	14.0	11.5	6.4	1.3	0.0	0.0
82.5°	57.5	17.9	16.6	12.8	11.5	8.9	5.1	0.0	0.0	0.0
85°	21.7	12.8	14.0	11.5	10.3	7.7	3.8	0.0	0.0	0.0
87.5°	12.8	12.8	12.8	11.5	8.9	5.1	2.6	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

(END OF REPORT)