

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: P622683

Luminaire Tested: **PRV-M-PA6B-8540-U-T2R-HSS**

Issue Date: 9/29/2022

Test Information

Test Method: LM-79-08
Report Number: P622683
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2207-719-7)
Test Lab: INNOVATION CENTER
Issue Date: 9/29/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-M-PA6B-8540-U-T2R-HSS
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE
(6) 85 CRI, 4000K LIGHT ENGINES AND TYPE II ROADWAY OPTICS WITH HOUSE
SIDE SHIELD, BRONZE PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32536 lumens
Efficiency: N/A
Efficacy: 88.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

Input Watts (W): 365.8
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

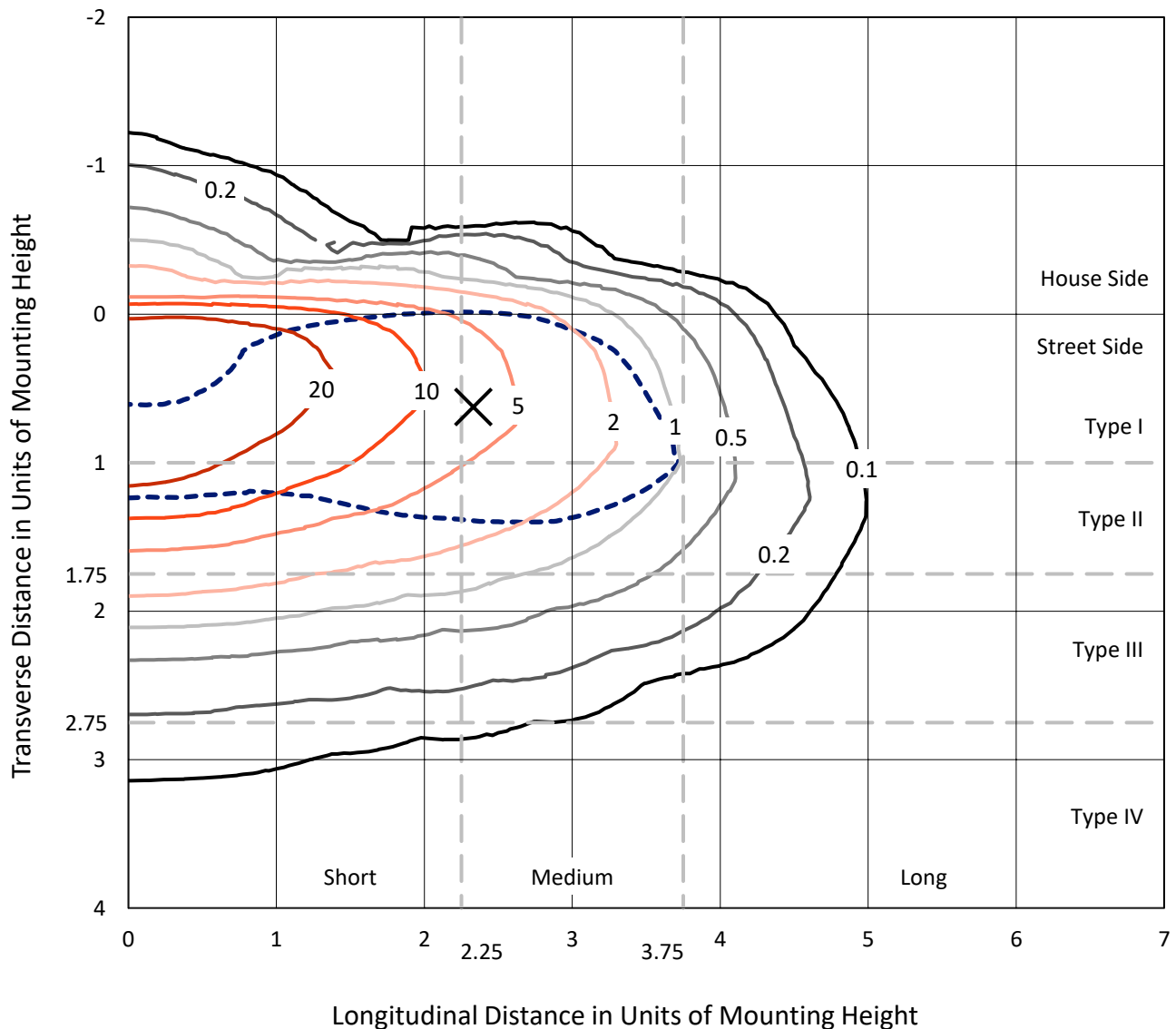


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

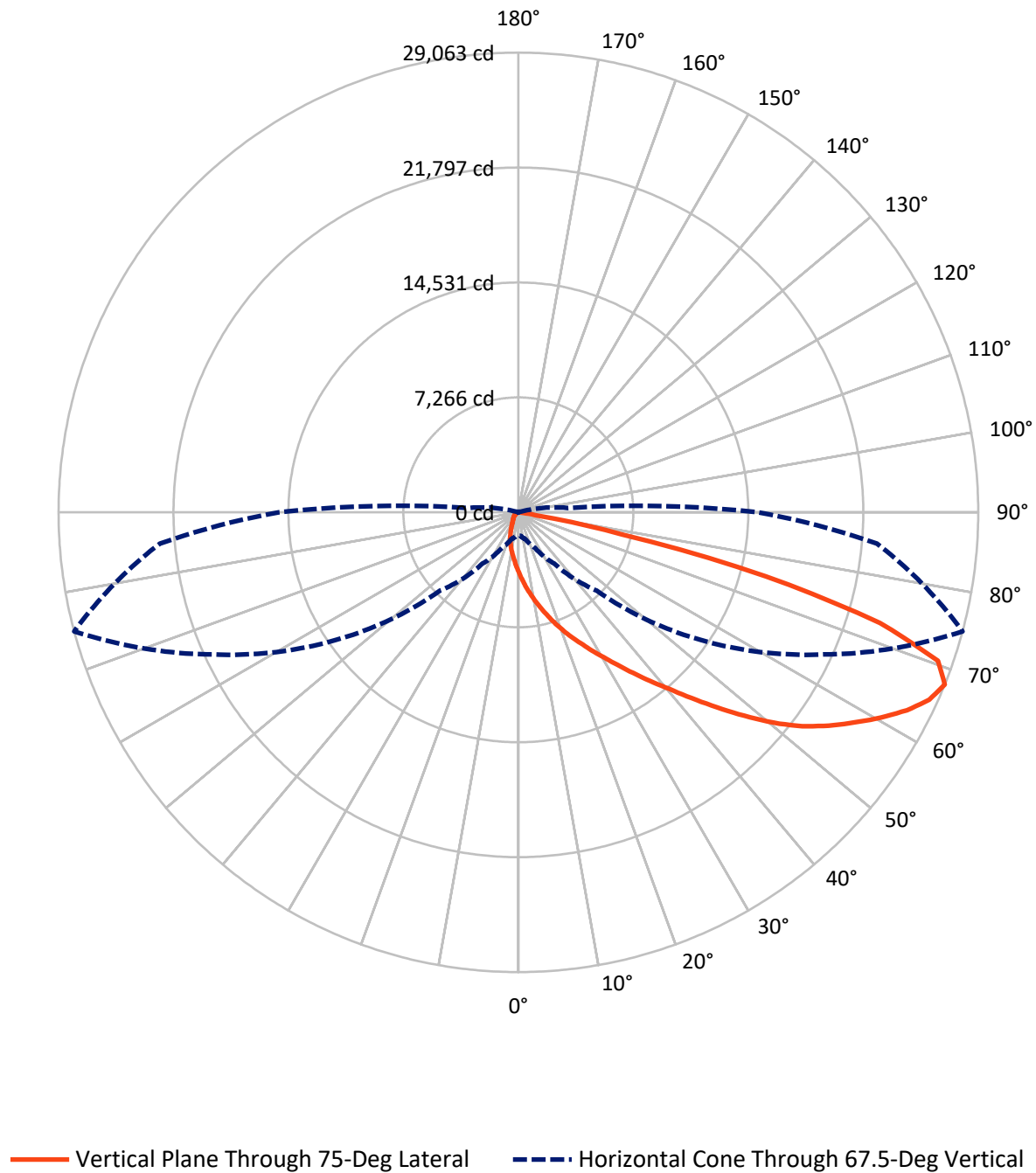


Based on 15 foot mounting height. Maximum calculated value = 40.3 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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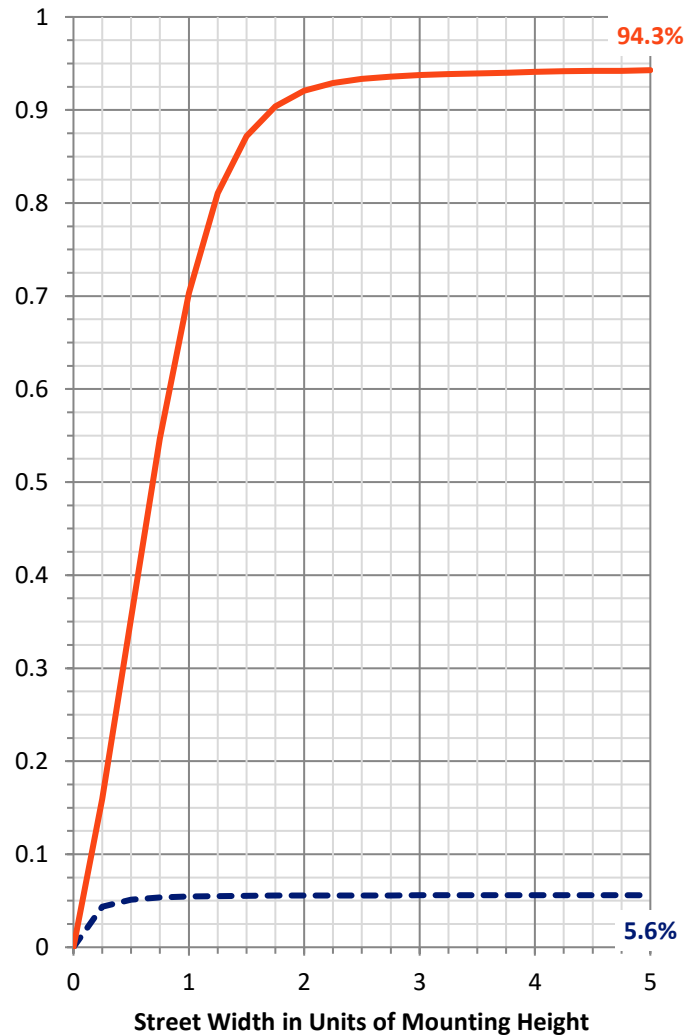
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1829.6	0.0	1829.6
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	30706.4	0.0	30706.4
	% Fixture	94.4	0.0	94.4
Total	Lumens	32536.0	0.0	32536.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	372.2	1.1
10°-20°	1255.4	3.9
20°-30°	2496.9	7.7
30°-40°	4526.9	13.9
40°-50°	6777.5	20.8
50°-60°	7724.1	23.7
60°-70°	6561.5	20.2
70°-80°	2707.1	8.3
80°-90°	114.2	0.4
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°	32536.0	100.0
0°-180°	32536.0	100.0

Coefficient of Utilization



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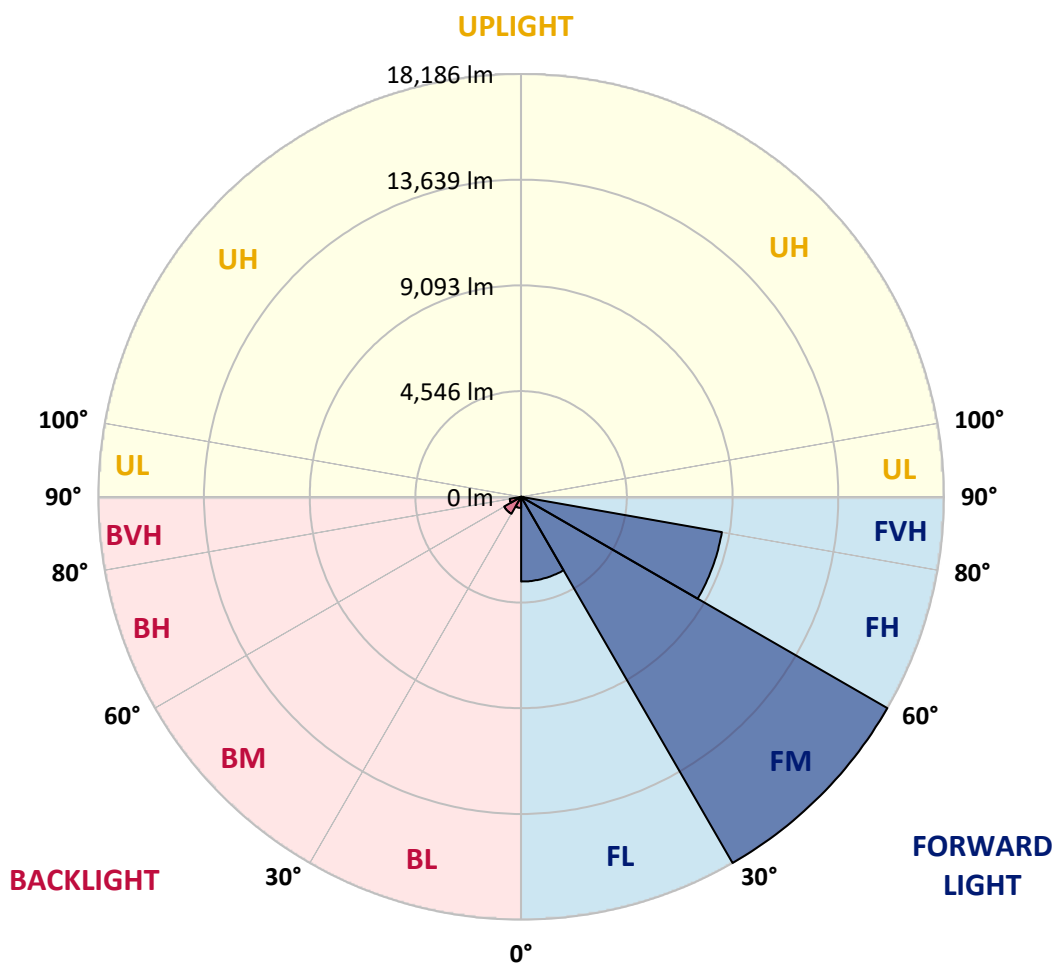
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3644.7	11.2			
FM	(30°-60°)	18185.6	55.9			
FH	(60°-80°)	8767.5	26.9			G4/12000
FVH	(80°-90°)	108.6	0.3			G2/225
BL	(0°-30°)	479.9	1.5	B1/500		
BM	(30°-60°)	843.0	2.6	B1/1000		
BH	(60°-80°)	501.1	1.5	B2/1000		G2/1000
BVH	(80°-90°)	5.6	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3787.6	3787.6	3787.6	3787.6	3787.6	3787.6	3787.6	3787.6	3787.6	3787.6	3787.6
2.5°	5259.3	5195.9	5243.4	5188.0	5055.4	4890.1	4705.0	4471.5	4215.1	3958.8	3829.2
5°	6349.0	6219.3	6228.2	6157.9	6009.4	5787.8	5515.6	5119.7	4662.5	4149.8	3884.6
7.5°	6924.0	6813.1	6823.0	6772.6	6667.6	6482.5	6213.3	5744.2	5135.5	4387.4	3983.6
10°	7374.3	7305.0	7326.8	7297.1	7220.9	7072.4	6834.9	6361.8	5636.3	4672.4	4121.2
12.5°	7835.5	7761.3	7802.8	7790.9	7744.4	7640.5	7401.0	6970.5	6155.9	4986.1	4276.5
15°	8109.6	8017.6	8103.7	8190.8	8247.2	8210.6	8029.5	7580.1	6716.1	5318.7	4441.8
17.5°	8237.3	8161.1	8280.9	8430.3	8623.3	8727.2	8608.5	8220.5	7306.0	5685.8	4637.8
20°	8531.3	8462.0	8570.9	8728.2	8937.0	9151.8	9183.5	8880.6	7911.7	6081.7	4849.6
22.5°	9215.1	9136.0	9183.5	9211.2	9352.7	9556.6	9695.1	9550.6	8536.2	6500.4	5073.2
25°	10398.8	10285.0	10227.6	10031.6	10017.8	10077.2	10165.2	10225.6	9166.7	6933.9	5293.9
27.5°	12014.0	11864.6	11663.6	11175.8	10930.3	10789.7	10690.8	10901.6	9878.2	7352.5	5525.6
30°	13695.5	13507.5	13259.1	12669.2	12093.2	11721.0	11354.9	11594.4	10631.4	7851.3	5773.9
32.5°	15144.5	14926.7	14600.1	14000.4	13396.7	12821.6	12201.1	12294.1	11477.6	8405.6	6060.0
35°	16294.5	16031.2	15764.0	15169.2	14627.8	14017.2	13216.5	13033.4	12465.4	9035.0	6416.2
37.5°	17111.0	16830.9	16534.0	16017.4	15633.4	15222.6	14421.0	13905.4	13524.3	9771.4	6845.8
40°	17598.9	17303.0	17059.5	16687.4	16410.3	16293.5	15755.1	14928.7	14665.4	10630.4	7383.2
42.5°	17788.0	17500.9	17328.7	17058.5	16945.7	17118.9	17056.6	16212.3	16037.2	11660.7	8027.5
45°	17660.3	17397.0	17294.1	17169.4	17226.8	17700.9	18287.7	17619.7	17579.1	12817.6	8773.7
47.5°	17026.9	16819.1	16889.3	16988.3	17225.8	18030.5	19287.3	19127.0	19202.2	14141.9	9629.8
50°	15639.3	15522.5	15843.2	16349.9	16908.1	18110.6	20060.3	20558.1	20908.5	15541.3	10570.0
52.5°	12876.0	12952.2	13991.4	15079.2	16160.9	17897.8	20485.9	21805.1	22464.3	16813.1	11439.0
55°	9883.2	9844.6	11166.8	13171.0	14872.3	17272.4	20592.7	22558.3	23804.4	18027.5	12244.6
57.5°	7645.4	7613.8	8397.7	10619.5	12898.8	16123.3	20440.4	23023.5	25061.3	19187.4	13060.1
60°	5879.9	5861.1	6452.9	7924.6	10437.4	14460.6	19875.3	23247.2	26332.1	20449.3	13890.5
62.5°	4219.1	4243.9	4750.6	5888.7	8101.7	12127.8	18725.2	23107.6	27554.4	21568.6	14657.5
65°	2618.7	2646.5	3079.0	4102.3	5834.3	9457.6	16787.4	22504.9	28540.1	22397.0	15201.9
67.5°	1474.6	1488.5	1765.7	2487.1	3948.0	7005.1	14055.8	21263.8	29062.7	22745.4	15123.6
70°	993.6	998.6	1080.8	1370.7	2272.3	4710.0	10636.4	18971.6	28124.4	21587.5	13668.8
72.5°	792.8	795.7	853.2	922.4	1302.4	2918.6	7137.7	15360.2	23908.3	17111.0	10041.5
75°	585.9	598.8	706.7	746.2	882.8	1594.4	3839.0	10066.2	16139.1	9610.0	5460.2
77.5°	492.9	495.9	530.5	615.6	674.0	904.6	1290.5	4448.7	6674.6	2839.5	1407.4
80°	333.6	333.6	394.9	452.3	513.6	595.8	509.7	1211.4	1236.1	458.2	261.3
82.5°	233.6	241.5	283.1	382.0	417.7	319.7	261.3	335.5	285.0	151.4	82.1
85°	64.4	79.2	193.9	284.1	222.7	97.0	157.4	132.6	98.0	56.4	34.6
87.5°	9.9	11.9	93.0	85.1	60.4	17.9	54.4	22.8	30.7	21.8	16.8
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°	3787.6	3787.6	3787.6	3787.6	3787.6	3787.6	3787.6	3787.6	3787.6	3787.6
2.5°	3689.7	3432.3	3157.1	2916.7	2711.8	2524.7	2433.7	2308.0	2306.0	2217.9
5°	3606.5	3065.1	2584.1	2177.4	1852.7	1620.2	1476.7	1355.9	1299.5	1276.7
7.5°	3557.0	2763.3	2105.1	1609.2	1268.8	1072.9	961.0	915.5	890.7	878.8
10°	3545.1	2500.0	1695.4	1191.6	944.1	851.1	813.5	790.8	781.9	773.0
12.5°	3538.2	2240.7	1369.8	943.2	822.5	769.0	735.3	710.6	699.7	691.8
15°	3534.2	1980.4	1101.5	829.4	751.2	698.7	658.2	634.4	619.6	611.6
17.5°	3540.2	1746.8	917.4	766.0	690.8	626.5	584.9	554.2	542.4	531.5
20°	3551.1	1509.3	820.4	708.6	625.5	555.2	511.7	479.0	462.2	456.3
22.5°	3556.0	1275.7	754.2	646.3	557.2	485.0	439.4	411.7	396.9	391.0
25°	3542.1	1071.8	690.8	580.0	489.9	420.6	376.1	353.3	345.4	339.4
27.5°	3509.5	898.6	627.5	512.6	428.5	366.2	329.6	308.8	302.9	301.8
30°	3455.1	764.1	564.2	451.3	374.1	319.7	288.0	271.2	268.2	266.2
32.5°	3404.6	673.0	505.7	398.9	328.5	279.1	251.4	240.5	238.5	238.5
35°	3352.1	604.7	448.3	351.3	288.0	245.5	222.7	212.8	214.8	213.8
37.5°	3312.6	545.4	403.8	312.7	252.4	213.8	193.9	187.1	191.1	191.1
40°	3288.8	497.8	358.3	277.1	220.7	186.0	169.2	164.3	171.2	172.2
42.5°	3287.8	452.3	321.7	244.5	192.0	162.3	147.4	142.5	150.4	152.5
45°	3306.6	416.6	286.0	213.8	168.3	140.5	124.7	119.7	128.6	129.7
47.5°	3383.8	387.0	254.3	188.1	147.4	121.8	103.0	98.0	107.9	108.8
50°	3511.4	347.4	219.7	164.3	128.6	103.0	83.2	79.2	90.0	91.1
52.5°	3632.2	309.8	188.1	141.6	111.8	85.1	66.3	64.4	75.2	77.2
55°	3685.7	272.2	161.3	121.8	97.0	70.2	52.5	53.5	64.4	66.3
57.5°	3714.4	240.5	139.5	104.9	84.1	57.4	44.6	45.5	55.4	57.4
60°	3737.1	208.8	122.7	92.1	73.2	48.5	38.6	37.6	45.5	47.5
62.5°	3725.3	179.2	107.9	80.2	62.3	42.6	32.7	29.7	34.6	35.6
65°	3574.8	155.3	93.0	68.3	53.5	35.6	25.8	17.9	20.7	21.8
67.5°	3153.2	136.6	79.2	58.4	43.5	30.7	18.8	11.9	13.9	14.9
70°	2353.5	116.8	64.4	48.5	35.6	24.7	13.9	7.9	9.9	10.9
72.5°	1271.7	96.0	51.4	37.6	26.7	18.8	8.9	4.9	6.0	6.0
75°	525.5	69.3	38.6	25.8	18.8	13.9	6.9	2.0	2.0	2.0
77.5°	195.0	42.6	24.7	19.8	14.9	10.9	4.9	1.0	0.0	0.0
80°	89.1	22.8	18.8	15.8	11.9	8.9	4.0	0.0	0.0	0.0
82.5°	41.6	15.8	14.9	12.8	9.9	6.9	3.0	0.0	0.0	0.0
85°	19.8	12.8	13.9	11.9	9.9	6.0	2.0	0.0	0.0	0.0
87.5°	11.9	13.9	13.9	11.9	9.9	6.0	1.0	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

(END OF REPORT)