

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: P381190

Luminaire Tested: **PRV-PA2A-8540-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P381190
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-PA2A-8540-U-T2R-HSS
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(2) 85 CRI, 4000K, 720mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9777.3 lumens
Efficiency: N/A
Efficacy: 87.3 lumens/watt
Luminous Opening: Rectangular (W 1.1' x L: 1.12' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 112
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

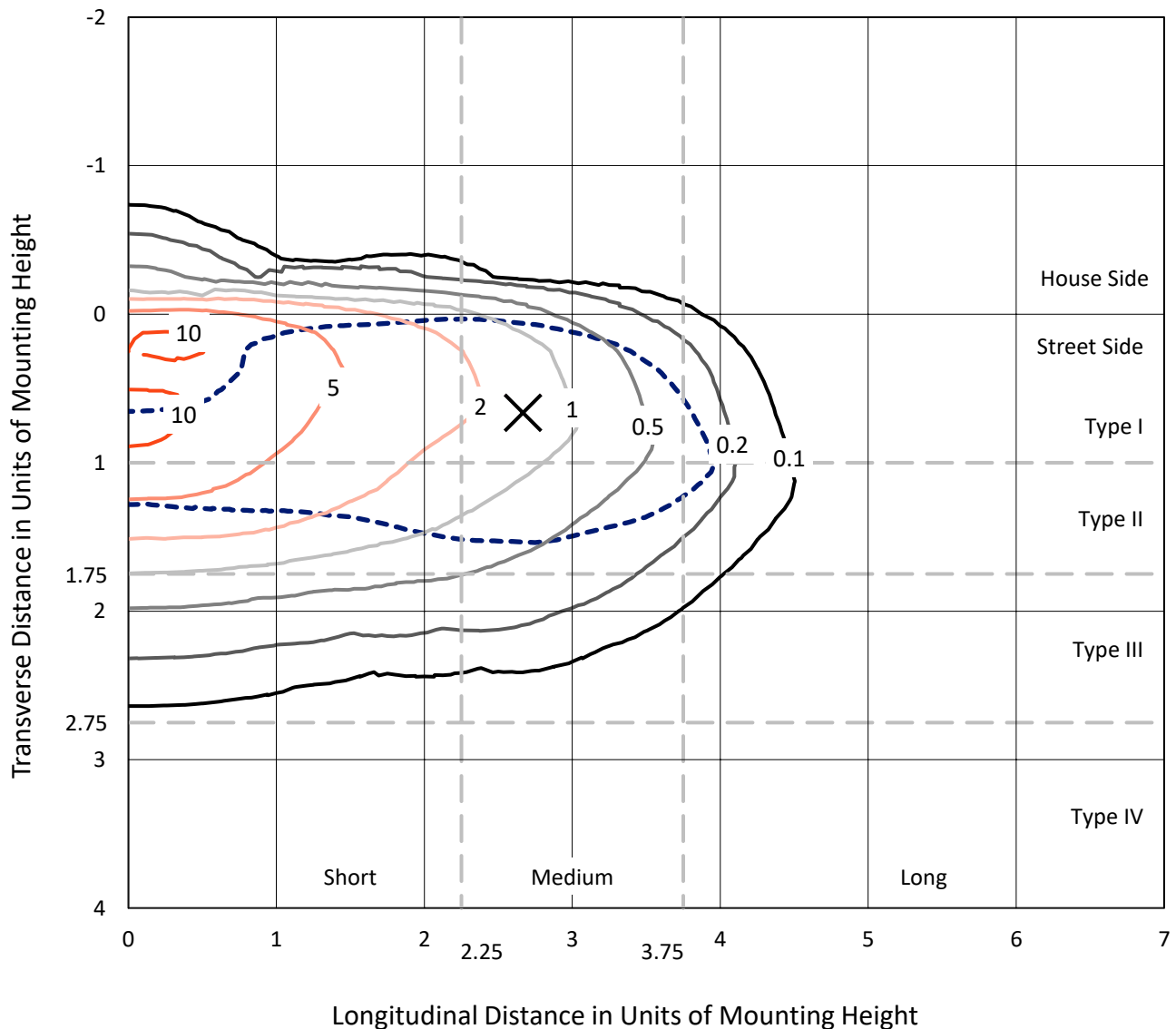


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

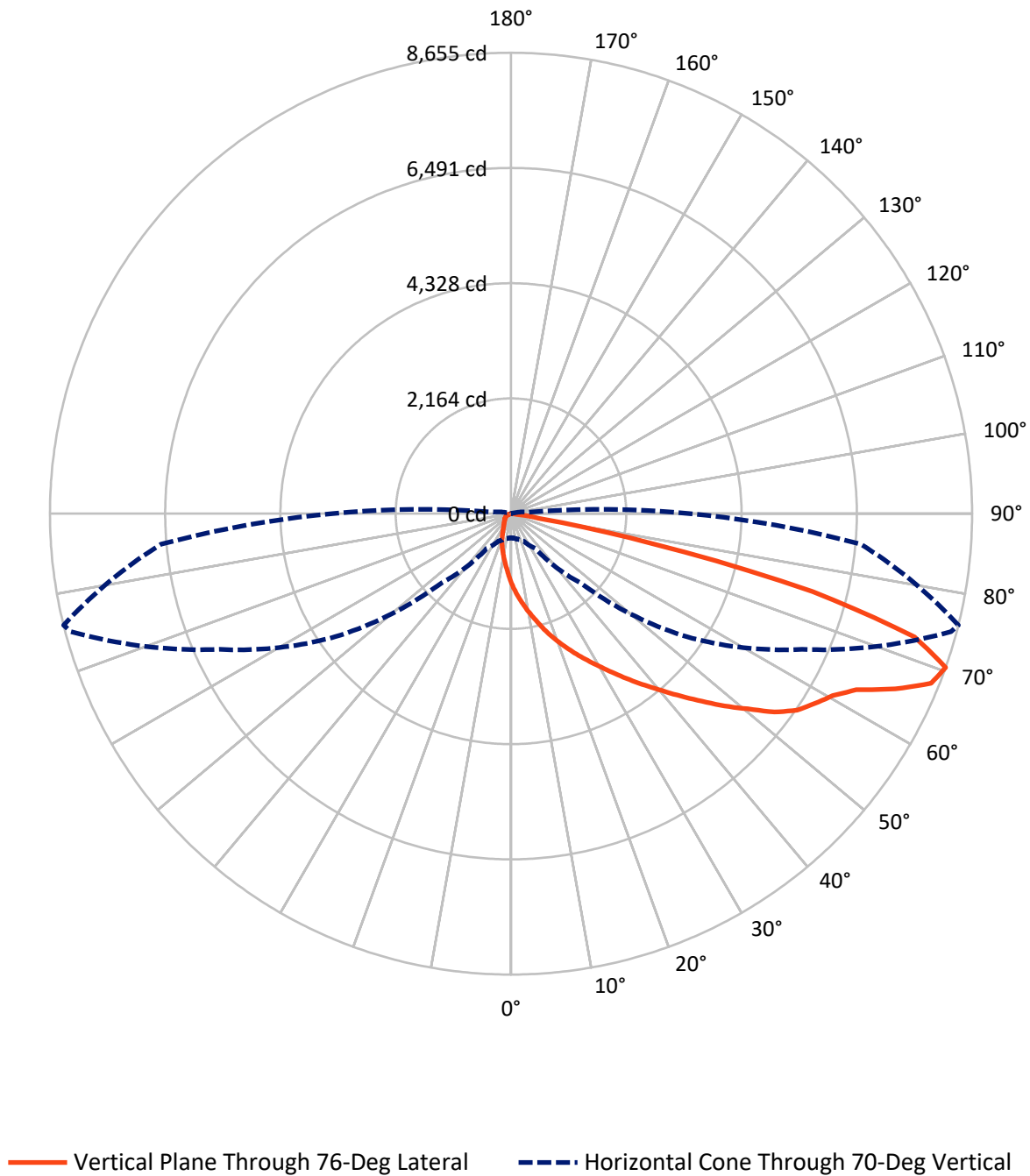


Based on 15 foot mounting height. Maximum calculated value = 11.1 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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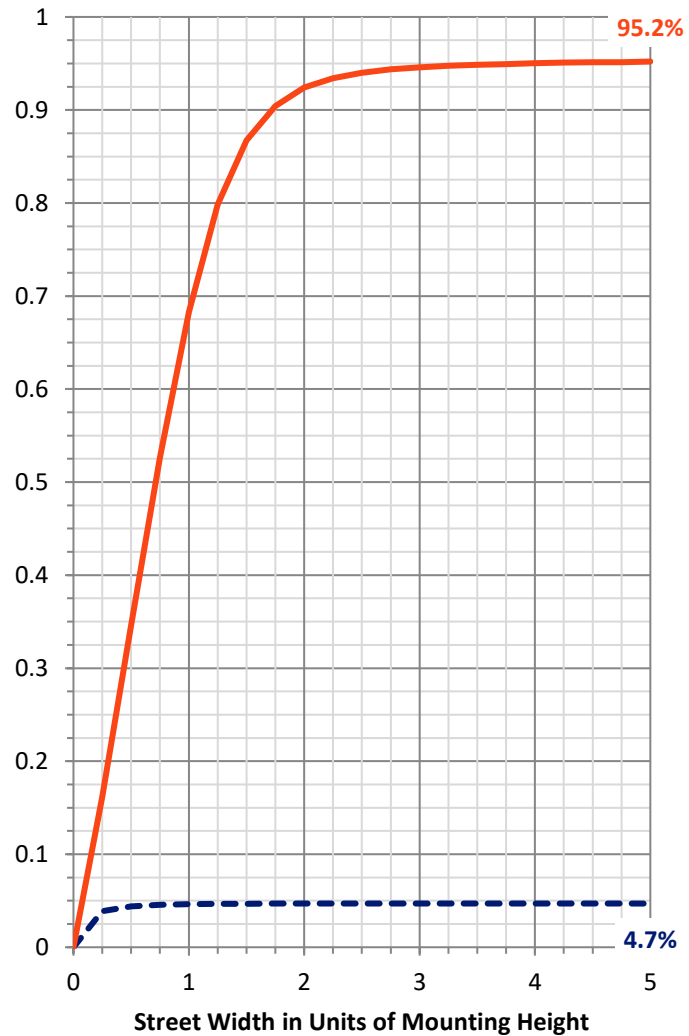
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	461.1	0.0	461.1
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	9316.2	0.0	9316.2
	% Fixture	95.3	0.0	95.3
Total	Lumens	9777.3	0.0	9777.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.3	1.3
10°-20°	397.9	4.1
20°-30°	741.1	7.6
30°-40°	1310.8	13.4
40°-50°	2004.6	20.5
50°-60°	2272.7	23.2
60°-70°	1948.3	19.9
70°-80°	943.6	9.7
80°-90°	35.0	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°	9777.3	100.0
0°-180°	9777.3	100.0

Coefficient of Utilization



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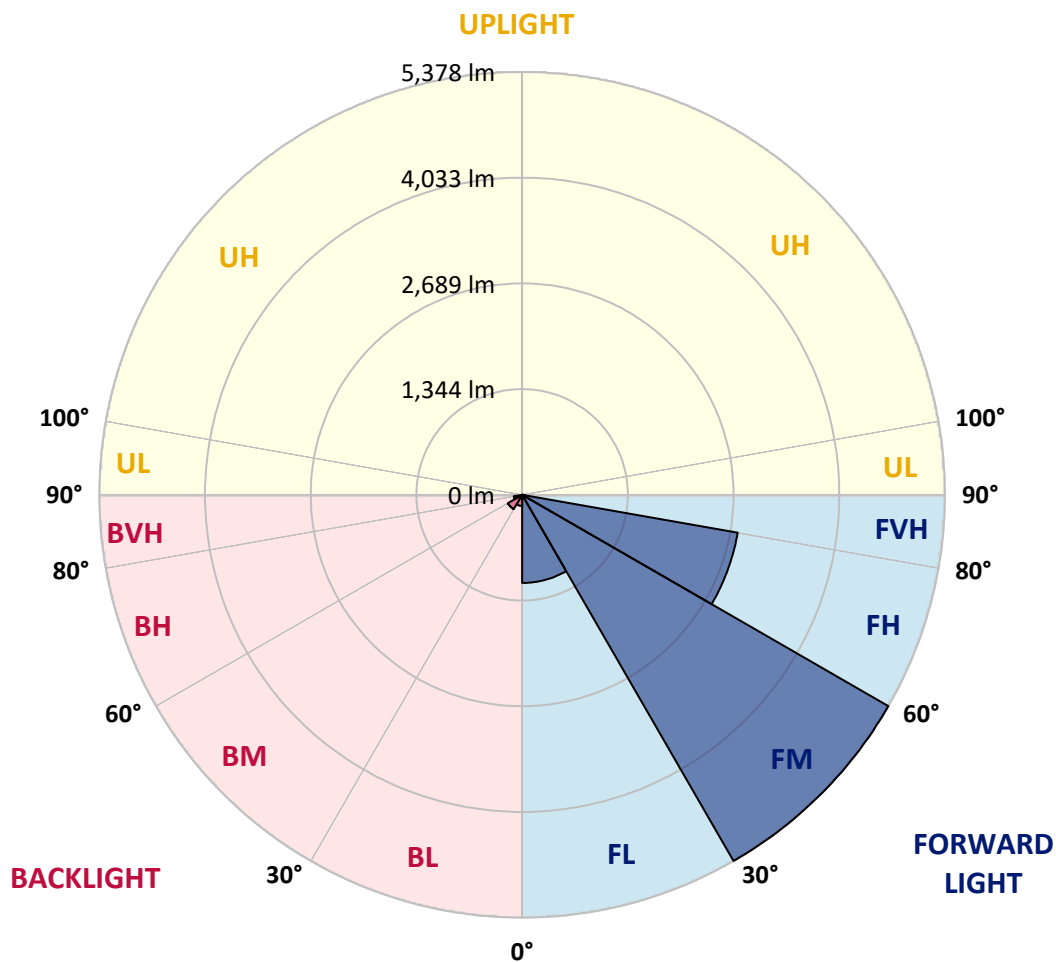
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1120.9	11.5			
FM	(30°-60°)	5377.6	55.0			
FH	(60°-80°)	2783.3	28.5			G2/5000
FVH	(80°-90°)	34.4	0.4			G1/100
BL	(0°-30°)	141.5	1.4	B1/500		
BM	(30°-60°)	210.5	2.2	B0/220		
BH	(60°-80°)	108.6	1.1	B0/110		G0/110
BVH	(80°-90°)	0.6	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1308.8	1308.8	1308.8	1308.8	1308.8	1308.8	1308.8	1308.8	1308.8	1308.8	1308.8
2.5°	1789.0	1779.2	1769.4	1732.0	1697.8	1666.9	1608.3	1531.8	1463.4	1448.8	1369.0
5°	2101.5	2090.1	2075.4	2038.0	1994.1	1942.0	1855.7	1738.5	1618.1	1592.0	1443.9
7.5°	2313.1	2303.4	2282.2	2264.3	2220.4	2169.8	2073.9	1937.1	1771.1	1738.5	1530.1
10°	2458.0	2451.5	2448.2	2433.6	2401.0	2360.4	2264.3	2121.1	1925.7	1888.3	1621.3
12.5°	2510.1	2510.1	2526.3	2550.8	2555.6	2542.6	2454.7	2311.5	2088.5	2049.4	1728.7
15°	2440.1	2448.2	2484.1	2562.1	2643.6	2697.3	2641.9	2508.4	2267.6	2225.2	1855.7
17.5°	2420.6	2428.7	2453.1	2521.5	2630.6	2773.8	2801.5	2698.9	2436.9	2401.0	1985.9
20°	2475.9	2484.1	2505.2	2563.8	2646.9	2791.7	2907.3	2882.8	2615.9	2578.4	2117.8
22.5°	2607.8	2612.6	2612.6	2658.2	2731.5	2838.9	2974.0	3057.0	2799.9	2759.1	2248.0
25°	2891.0	2881.2	2842.1	2819.3	2866.6	2954.5	3058.6	3210.1	3004.9	2949.6	2388.0
27.5°	3262.1	3294.7	3200.3	3091.2	3055.4	3105.8	3177.5	3345.1	3203.5	3144.9	2515.0
30°	3765.1	3752.1	3628.4	3472.1	3317.5	3299.6	3324.0	3460.7	3402.1	3346.8	2656.6
32.5°	4178.6	4203.0	4072.8	3882.3	3651.2	3542.1	3516.1	3599.1	3613.7	3577.9	2824.3
35°	4603.4	4629.5	4502.5	4290.9	4015.8	3833.5	3758.6	3770.0	3875.8	3830.2	3000.1
37.5°	4984.3	5007.1	4881.8	4665.3	4390.2	4167.2	4059.8	3971.8	4129.8	4089.1	3185.6
40°	5274.1	5277.3	5192.7	4999.0	4738.6	4507.4	4385.3	4212.8	4398.3	4370.6	3379.3
42.5°	5479.2	5485.7	5423.8	5257.8	5016.9	4802.1	4702.7	4497.6	4707.6	4683.2	3604.0
45°	5575.3	5586.6	5580.1	5427.1	5226.9	5041.3	5008.8	4800.4	5046.2	5023.4	3862.8
47.5°	5484.1	5484.1	5567.1	5545.9	5362.0	5238.3	5275.7	5116.2	5414.1	5392.9	4126.5
50°	5104.8	5109.7	5279.0	5521.6	5414.1	5386.4	5503.6	5425.5	5747.8	5760.8	4442.3
52.5°	4108.6	4100.4	4671.8	5137.3	5378.3	5453.1	5713.6	5741.3	6148.2	6187.3	4756.5
55°	3070.1	3065.1	3612.1	4456.9	5127.6	5419.0	5830.8	6022.9	6490.1	6514.5	4990.8
57.5°	2430.4	2417.3	2718.4	3592.6	4561.1	5266.0	5835.7	6076.6	6680.6	6722.8	5218.8
60°	1868.7	1857.4	2082.0	2672.8	3758.6	4859.0	5695.7	6079.8	6864.5	6939.3	5524.8
62.5°	1336.4	1349.4	1522.0	1917.6	2891.0	4284.4	5513.4	6125.4	7191.6	7276.3	5959.4
65°	901.8	895.3	1038.6	1305.5	2055.9	3511.2	5233.4	6221.5	7780.9	7929.0	6480.3
67.5°	626.7	631.6	696.7	849.7	1305.5	2695.6	4767.8	6275.2	8389.7	8505.3	6844.9
70°	452.5	459.1	494.9	571.4	797.6	1828.0	4030.4	6029.4	8554.1	8655.0	6591.0
72.5°	297.9	310.9	364.6	405.4	509.5	1144.4	2969.1	5194.3	7846.1	7920.9	5529.6
75°	161.1	164.4	234.4	302.8	363.0	713.0	1771.1	3503.1	5869.8	5845.5	3646.3
77.5°	125.4	130.2	144.9	216.5	244.1	392.3	699.9	1582.2	2780.3	2705.4	1243.6
80°	76.5	79.8	100.9	128.6	170.9	227.9	205.1	429.7	564.9	529.1	182.3
82.5°	45.6	48.9	60.2	107.4	135.1	107.4	71.6	104.2	105.8	104.2	45.6
85°	8.1	8.1	42.4	74.9	71.6	30.9	42.4	34.2	30.9	32.6	9.8
87.5°	0.0	0.0	16.3	22.8	32.6	11.4	16.3	8.1	8.1	8.1	4.9
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°	1308.8	1308.8	1308.8	1308.8	1308.8	1308.8	1308.8	1308.8	1308.8	1308.8	1308.8
2.5°	1320.1	1264.8	1150.9	1051.6	952.3	879.0	823.6	766.7	747.1	722.7	709.7
5°	1342.9	1233.9	1007.6	826.9	673.9	556.7	481.9	436.3	406.9	385.8	380.9
7.5°	1377.1	1209.5	892.1	647.9	480.2	363.0	301.1	270.2	253.9	244.1	240.9
10°	1417.9	1188.3	778.1	504.6	338.6	255.6	221.4	208.4	201.9	198.6	197.0
12.5°	1474.8	1180.1	682.1	389.1	255.6	210.0	192.1	183.9	179.1	174.1	172.6
15°	1549.6	1183.4	594.1	301.1	211.6	187.2	172.6	164.4	157.9	153.0	153.0
17.5°	1627.8	1188.3	507.9	244.1	192.1	170.9	154.6	143.2	138.4	133.5	131.9
20°	1701.1	1186.6	424.9	208.4	174.1	153.0	136.7	125.4	117.2	112.3	112.3
22.5°	1771.1	1176.9	346.7	187.2	159.5	135.1	117.2	105.8	99.3	94.4	94.4
25°	1845.9	1157.4	283.2	170.9	141.6	118.9	100.9	89.5	84.6	79.8	79.8
27.5°	1904.6	1124.8	231.1	156.3	125.4	102.6	86.3	76.5	71.6	68.4	68.4
30°	1968.0	1077.6	192.1	140.0	109.1	87.9	73.3	65.1	60.2	58.6	58.6
32.5°	2038.0	1025.5	164.4	123.7	92.8	74.9	61.9	57.0	52.1	50.4	50.4
35°	2119.4	979.9	148.1	107.4	81.4	63.5	53.7	48.9	45.6	45.6	45.6
37.5°	2212.2	932.7	133.5	94.4	70.0	53.7	45.6	43.9	42.4	40.7	40.7
40°	2313.1	882.3	120.4	83.0	60.2	45.6	39.1	39.1	37.4	37.4	37.4
42.5°	2427.1	838.4	109.1	73.3	52.1	39.1	34.2	34.2	32.6	32.6	32.6
45°	2550.8	797.6	99.3	65.1	45.6	34.2	30.9	29.3	27.6	27.6	27.6
47.5°	2697.3	774.9	91.1	57.0	39.1	29.3	26.1	24.4	22.8	21.1	21.1
50°	2884.5	784.6	83.0	47.2	34.2	24.4	21.1	19.5	17.9	16.3	16.3
52.5°	3032.6	779.7	71.6	40.7	27.6	19.5	16.3	14.6	13.0	11.4	11.4
55°	3140.1	760.2	61.9	34.2	21.1	16.3	13.0	9.8	8.1	8.1	8.1
57.5°	3245.8	740.6	52.1	27.6	16.3	11.4	8.1	6.5	6.5	6.5	6.5
60°	3410.3	713.0	45.6	22.8	13.0	8.1	4.9	4.9	3.3	3.3	3.3
62.5°	3610.5	678.8	37.4	19.5	9.8	6.5	3.3	3.3	0.0	0.0	0.0
65°	3830.2	618.6	30.9	14.6	8.1	4.9	3.3	0.0	0.0	0.0	0.0
67.5°	3779.8	496.5	26.1	9.8	6.5	3.3	1.6	0.0	0.0	0.0	0.0
70°	3343.5	335.4	21.1	8.1	4.9	3.3	1.6	0.0	0.0	0.0	0.0
72.5°	2619.1	198.6	14.6	6.5	3.3	1.6	0.0	0.0	0.0	0.0	0.0
75°	1676.6	99.3	9.8	4.9	3.3	1.6	0.0	0.0	0.0	0.0	0.0
77.5°	561.6	48.9	6.5	3.3	1.6	0.0	0.0	0.0	0.0	0.0	0.0
80°	79.8	16.3	3.3	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	17.9	6.5	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	6.5	3.3	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.3	1.6	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)