

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: STREETWORKS

Report Number: P380862

Luminaire Tested: **USSL-PA2A-730-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P380862
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: USSL-PA2A-730-U-T2R
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 720mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14399 lumens
Efficiency: N/A
Efficacy: 128.6 lumens/watt
Luminous Opening: Rectangular (W 1.1' x L: 1.12' x H: 0')
IES Classification: Type II - Medium - Non-Cutoff
BUG Rating: B2 - U0 - G3

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



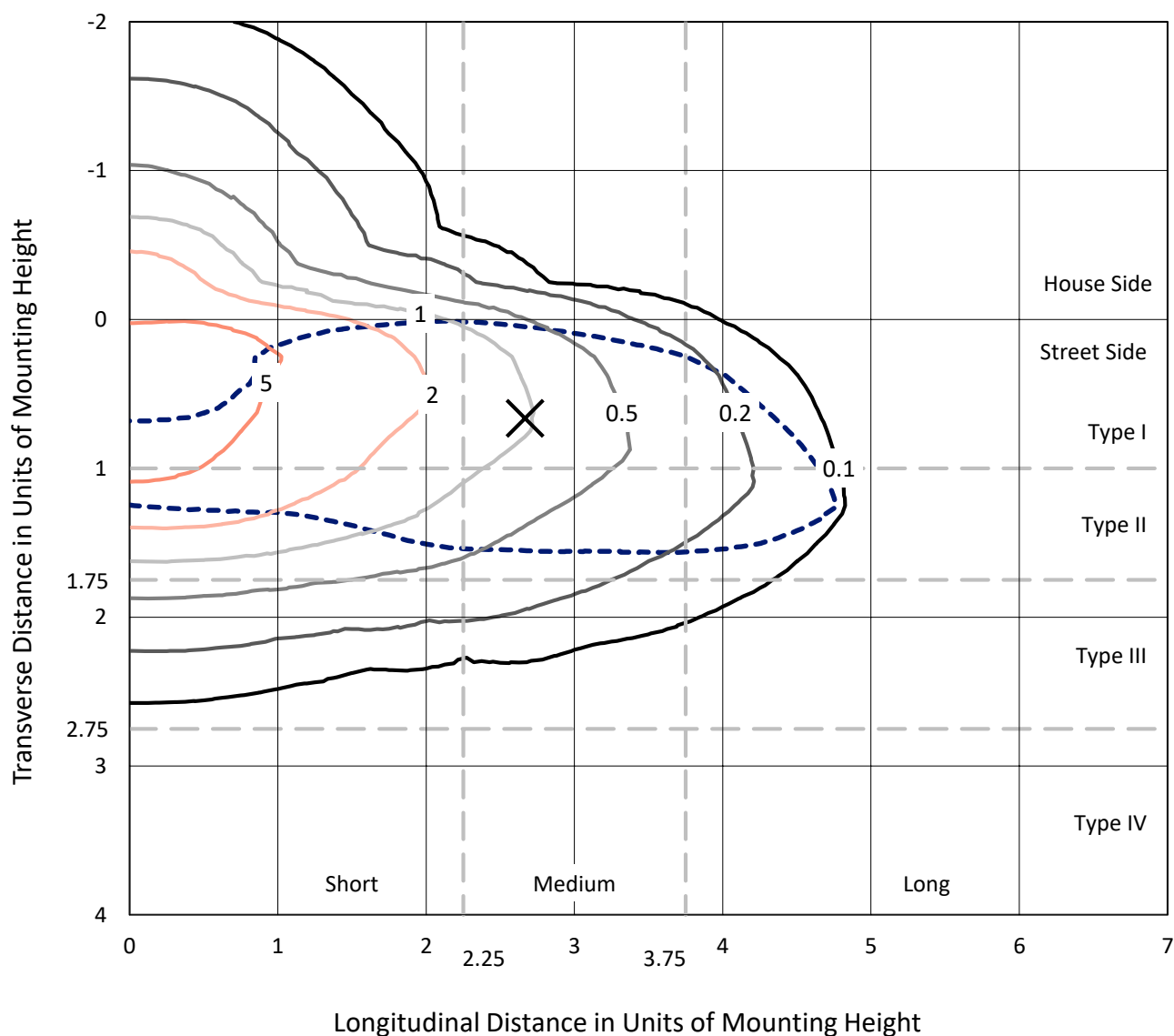
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

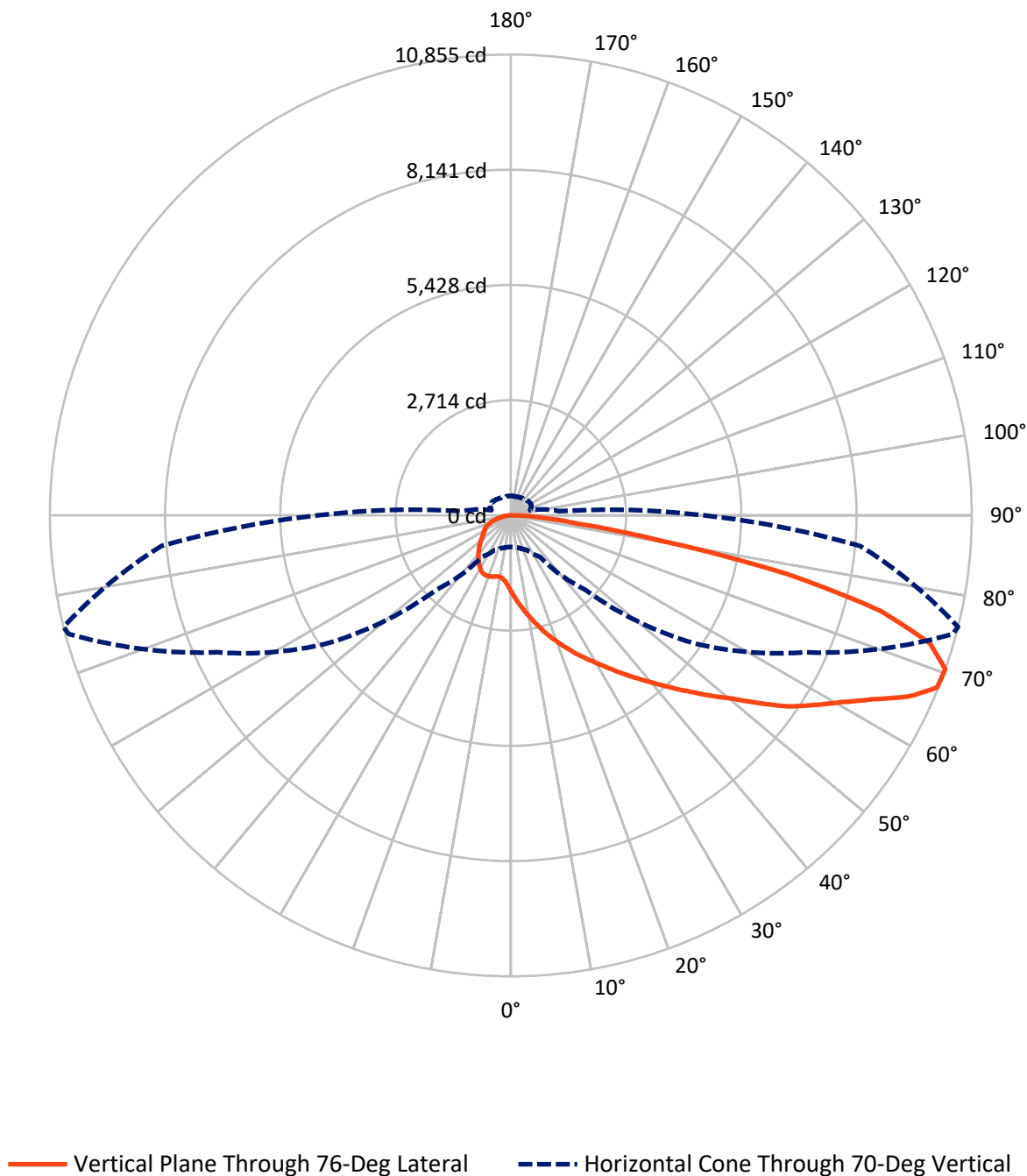


Based on 20 foot mounting height. Maximum calculated value = 7.7 fc
 Type II - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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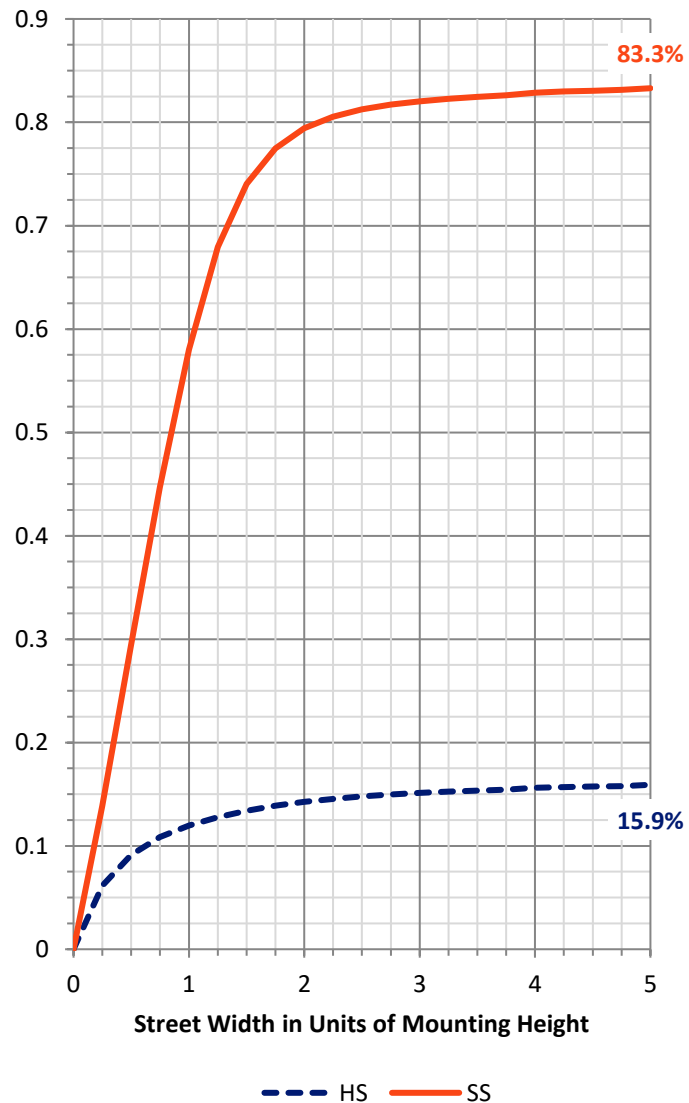
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2350.8	0.0	2350.8
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	12048.2	0.0	12048.2
	% Fixture	83.7	0.0	83.7
Total	Lumens	14399.0	0.0	14399.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.1	1.3
10°-20°	635.9	4.4
20°-30°	1137.7	7.9
30°-40°	1840.3	12.8
40°-50°	2662.3	18.5
50°-60°	3047.2	21.2
60°-70°	2803.1	19.5
70°-80°	1733.4	12.0
80°-90°	352.0	2.4
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°	14399.0	100.0
0°-180°	14399.0	100.0

Coefficient of Utilization



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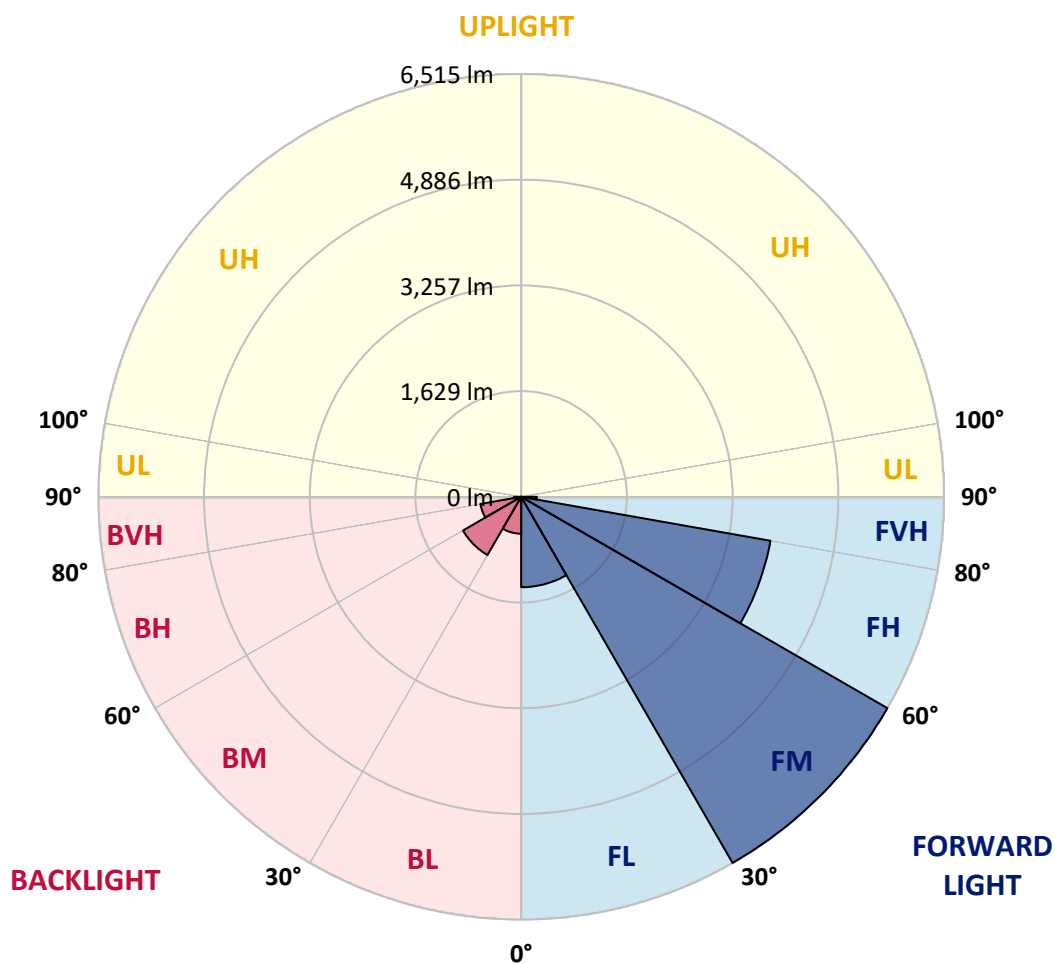
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1392.9	9.7			
FM	(30°-60°)	6514.9	45.2			
FH	(60°-80°)	3898.9	27.1			G2/5000
FVH	(80°-90°)	241.6	1.7			G3/500
BL	(0°-30°)	567.8	3.9	B2/1000		
BM	(30°-60°)	1035.0	7.2	B2/2500		
BH	(60°-80°)	637.6	4.4	B2/1000		G2/1000
BVH	(80°-90°)	110.4	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1800.7	1800.7	1800.7	1800.7	1800.7	1800.7	1800.7	1800.7	1800.7	1800.7	1800.7
2.5°	2294.8	2277.8	2275.9	2249.4	2224.8	2158.5	2111.2	2027.9	1944.6	1942.7	1859.4
5°	2652.7	2635.7	2626.2	2594.0	2552.4	2465.3	2380.0	2251.3	2109.3	2099.8	1942.7
7.5°	2895.1	2879.9	2861.0	2847.7	2808.0	2730.3	2626.2	2472.8	2277.8	2258.9	2039.2
10°	3057.9	3048.4	3044.6	3035.2	3010.6	2948.1	2847.7	2684.9	2446.3	2425.5	2141.5
12.5°	3128.0	3124.2	3141.2	3167.7	3177.2	3152.6	3056.0	2902.6	2631.9	2609.2	2264.5
15°	3046.5	3050.3	3093.9	3184.8	3281.3	3334.3	3277.5	3128.0	2842.0	2809.9	2408.4
17.5°	3008.7	3014.3	3044.6	3131.7	3268.1	3432.8	3459.3	3341.9	3044.6	2999.2	2559.9
20°	3074.9	3082.5	3105.2	3173.4	3268.1	3444.2	3582.4	3546.4	3243.5	3196.1	2705.7
22.5°	3243.5	3252.9	3251.0	3294.6	3359.0	3480.1	3650.5	3739.5	3451.7	3398.7	2857.2
25°	3603.2	3595.6	3531.3	3510.4	3527.5	3605.1	3741.4	3925.1	3669.5	3616.5	3016.2
27.5°	4091.7	4082.2	3964.9	3858.8	3764.1	3798.2	3870.2	4074.7	3891.0	3830.4	3167.7
30°	4614.3	4602.9	4466.6	4294.3	4084.1	4034.9	4025.4	4205.3	4114.4	4050.1	3328.7
32.5°	5123.6	5114.2	4968.4	4767.7	4478.0	4330.3	4239.4	4351.1	4368.2	4305.7	3504.7
35°	5587.5	5587.5	5462.6	5224.0	4896.4	4673.0	4523.4	4531.0	4659.7	4587.8	3705.5
37.5°	6000.3	5998.4	5862.1	5627.3	5313.0	5057.4	4871.8	4748.7	4938.1	4875.6	3915.6
40°	6327.9	6314.6	6214.3	6009.8	5693.6	5439.8	5252.4	5004.3	5248.6	5191.8	4139.0
42.5°	6566.4	6558.9	6490.7	6312.7	6011.7	5773.1	5644.3	5326.2	5600.8	5544.0	4400.3
45°	6659.2	6674.4	6674.4	6505.8	6267.3	6049.5	5992.7	5680.3	5981.4	5924.6	4680.6
47.5°	6509.6	6549.4	6630.8	6642.2	6432.0	6284.3	6303.2	6036.3	6373.3	6343.0	4987.3
50°	6042.0	6115.8	6293.8	6615.7	6498.3	6464.2	6568.3	6399.8	6793.6	6784.2	5360.3
52.5°	4835.8	5015.7	5570.5	6148.0	6452.8	6547.5	6831.5	6808.8	7335.2	7350.3	5846.9
55°	3709.2	3777.4	4419.3	5402.0	6174.5	6521.0	7007.6	7208.3	7922.1	7941.1	6293.8
57.5°	2999.2	3044.6	3394.9	4419.3	5540.2	6377.1	7145.8	7441.2	8372.8	8422.0	6691.4
60°	2376.3	2442.5	2677.3	3381.7	4652.2	6030.6	7242.4	7700.6	8857.5	8931.3	7166.7
62.5°	1766.6	1798.8	2020.3	2505.0	3682.7	5407.6	7191.3	7982.7	9452.0	9541.0	7738.5
65°	1257.2	1285.6	1442.8	1781.7	2722.8	4565.1	6894.0	8192.9	10198.0	10288.9	8314.1
67.5°	941.0	952.4	1041.4	1245.9	1834.7	3546.4	6291.9	8156.9	10743.3	10824.8	8545.1
70°	744.1	747.9	791.5	901.3	1192.9	2469.0	5237.2	7628.6	10783.1	10855.1	8253.5
72.5°	617.3	615.4	640.0	693.0	831.2	1562.1	3879.6	6647.8	10271.9	10321.1	7439.3
75°	509.3	513.1	530.2	560.5	634.3	1030.0	2514.5	5303.5	9062.0	9009.0	6242.7
77.5°	427.9	426.0	433.6	460.1	513.1	740.3	1473.1	3832.3	6716.0	6689.5	4097.4
80°	344.6	348.4	359.8	382.5	431.7	564.2	871.0	2391.4	3603.2	3506.6	1957.8
82.5°	231.0	267.0	289.7	316.2	373.0	416.6	552.9	1215.6	1611.3	1586.7	888.0
85°	109.8	145.8	215.9	246.1	302.9	261.3	374.9	579.4	806.6	797.1	320.0
87.5°	22.7	22.7	115.5	138.2	187.5	111.7	208.3	251.8	390.0	365.4	130.6
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1800.7	1800.7	1800.7	1800.7	1800.7	1800.7	1800.7	1800.7	1800.7	1800.7	1800.7
2.5°	1810.1	1759.0	1656.8	1575.3	1492.0	1444.7	1386.0	1357.6	1351.9	1336.8	1348.1
5°	1842.3	1742.0	1548.8	1422.0	1336.8	1295.1	1274.3	1266.7	1264.8	1261.0	1261.0
7.5°	1885.9	1732.5	1480.7	1351.9	1297.0	1283.7	1289.4	1300.8	1302.7	1306.5	1304.6
10°	1938.9	1734.4	1442.8	1334.9	1308.4	1310.3	1329.2	1344.3	1351.9	1357.6	1355.7
12.5°	2012.7	1757.1	1437.1	1346.2	1334.9	1342.4	1361.4	1376.5	1384.1	1386.0	1386.0
15°	2109.3	1804.4	1450.4	1370.8	1361.4	1367.1	1378.4	1384.1	1386.0	1384.1	1384.1
17.5°	2215.3	1861.2	1469.3	1386.0	1370.8	1365.2	1361.4	1355.7	1344.3	1336.8	1336.8
20°	2317.6	1912.4	1478.8	1384.1	1357.6	1334.9	1312.2	1283.7	1264.8	1249.7	1249.7
22.5°	2419.8	1959.7	1478.8	1363.3	1321.6	1278.1	1230.7	1185.3	1156.9	1138.0	1138.0
25°	2527.7	2005.1	1467.4	1327.3	1264.8	1202.3	1138.0	1081.2	1052.7	1033.8	1030.0
27.5°	2618.6	2031.7	1437.1	1276.2	1194.8	1115.2	1041.4	982.7	961.9	944.8	944.8
30°	2715.2	2048.7	1380.3	1209.9	1115.2	1024.3	948.6	901.3	878.6	853.9	852.0
32.5°	2823.1	2060.1	1315.9	1139.8	1033.8	937.3	872.9	835.0	785.8	759.3	755.5
35°	2948.1	2075.2	1247.8	1060.3	952.4	865.3	827.4	764.9	717.6	694.9	693.0
37.5°	3080.6	2086.6	1173.9	990.3	878.6	818.0	780.1	706.3	664.6	630.5	626.7
40°	3220.7	2086.6	1098.2	922.1	819.9	797.1	725.2	658.9	588.9	571.8	568.0
42.5°	3376.0	2082.8	1022.5	855.8	764.9	749.8	693.0	622.9	587.0	571.8	568.0
45°	3540.7	2069.5	950.5	780.1	708.1	677.8	634.3	615.4	600.2	600.2	600.2
47.5°	3728.2	2058.2	869.1	711.9	666.5	632.4	600.2	588.9	587.0	592.6	598.3
50°	3968.6	2054.4	800.9	662.7	634.3	594.5	590.8	581.3	583.2	583.2	583.2
52.5°	4260.2	2020.3	736.5	626.7	602.1	554.8	566.1	575.6	579.4	577.5	575.6
55°	4474.2	1959.7	681.6	602.1	579.4	539.6	554.8	569.9	573.7	568.0	568.0
57.5°	4667.3	1874.5	638.1	583.2	564.2	530.2	547.2	562.4	558.6	556.7	554.8
60°	4888.8	1793.1	604.0	573.7	549.1	526.4	541.5	551.0	545.3	541.5	539.6
62.5°	5129.3	1713.6	579.4	573.7	537.7	524.5	535.8	539.6	528.3	524.5	524.5
65°	5241.0	1588.6	552.9	573.7	532.1	520.7	524.5	520.7	509.3	509.3	507.4
67.5°	5057.4	1382.2	518.8	566.1	539.6	515.0	507.4	501.8	488.5	488.5	484.7
70°	4549.9	1136.1	469.6	541.5	541.5	513.1	484.7	471.5	456.3	462.0	454.4
72.5°	3887.2	901.3	409.0	499.9	530.2	511.2	460.1	439.3	426.0	431.7	420.3
75°	3148.8	698.7	337.0	433.6	501.8	501.8	435.5	407.1	391.9	391.9	378.7
77.5°	2007.0	516.9	274.5	359.8	450.6	488.5	414.7	371.1	348.4	342.7	333.2
80°	994.1	363.5	225.3	285.9	384.4	458.2	399.5	329.5	297.3	285.9	268.9
82.5°	528.3	251.8	179.9	223.4	306.7	412.8	380.6	284.0	244.3	227.2	208.3
85°	236.7	155.3	143.9	170.4	232.9	338.9	342.7	232.9	187.5	223.4	164.7
87.5°	87.1	70.1	70.1	87.1	134.4	142.0	242.4	149.6	119.3	81.4	64.4
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)