

Scaled data based on original data using
LM-46-04 Photometric Testing of Indoor Luminaires Using High Intensity Discharge
or Incandescent Filament Lamps (Reaffirmed 2012)

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: STREETWORKS

Report Number: 768356_350MP

Luminaire Tested: **TRU35PXX2F**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: 768356_350MP
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: TRU35PXX2F
Description: ARCHITECTURAL AREA LUMINAIRE - TYPE II
Light Source: 350 WATT PULSE-START CLEAR ED-28 HORIZONTAL BURN
Ballast/Driver: -

Summary

Lumens per Lamp: 33000 (1 lamp)
Luminaire Lumens: 24009.2 lumens
Efficiency: 72.8%
Efficacy: 60.5 lumens/watt
Luminous Opening: Rectangular (W 1.1' x L: 1.1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 397
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

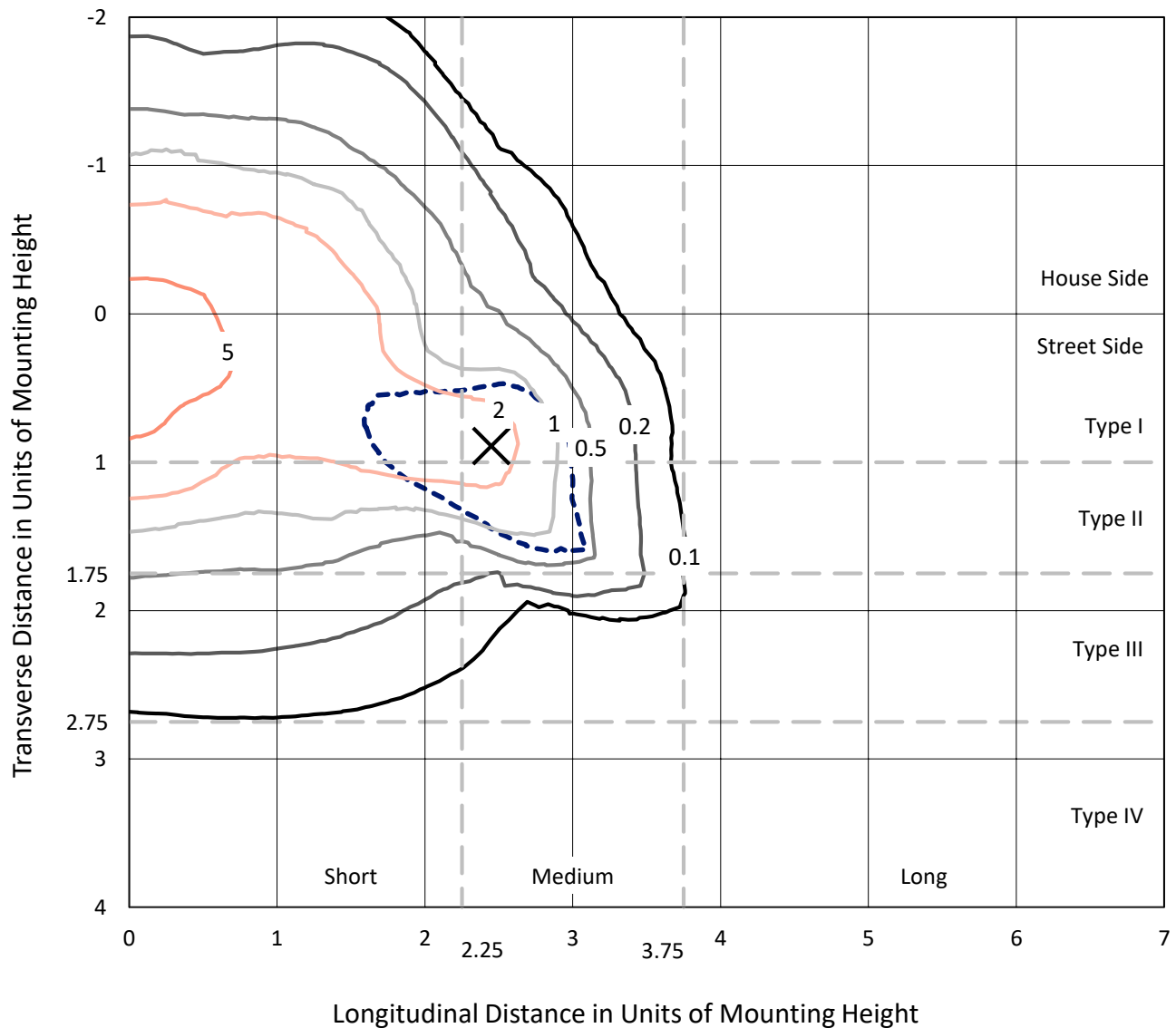


REPORT NUMBER: 768356_350MP

CATALOG NUMBER: TRU35PXX2F

Iso-Footcandle Lines of Horizontal Illumination

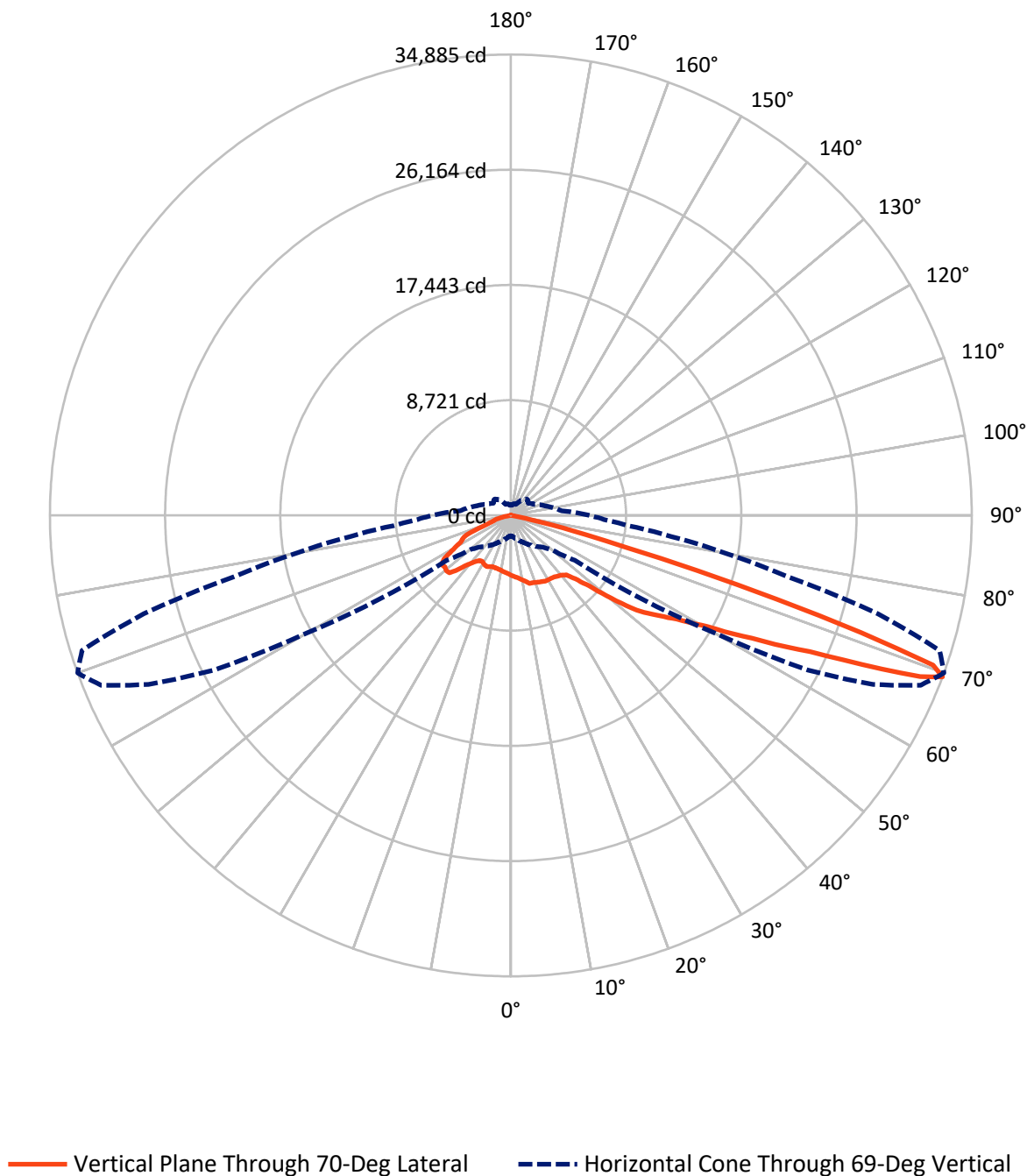
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc
 Type II - Medium - Full Cutoff

REPORT NUMBER: 768356_350MP
CATALOG NUMBER: TRU35PXX2F

Luminous Intensity Polar Plot



REPORT NUMBER: 768356_350MP

CATALOG NUMBER: TRU35PXX2F

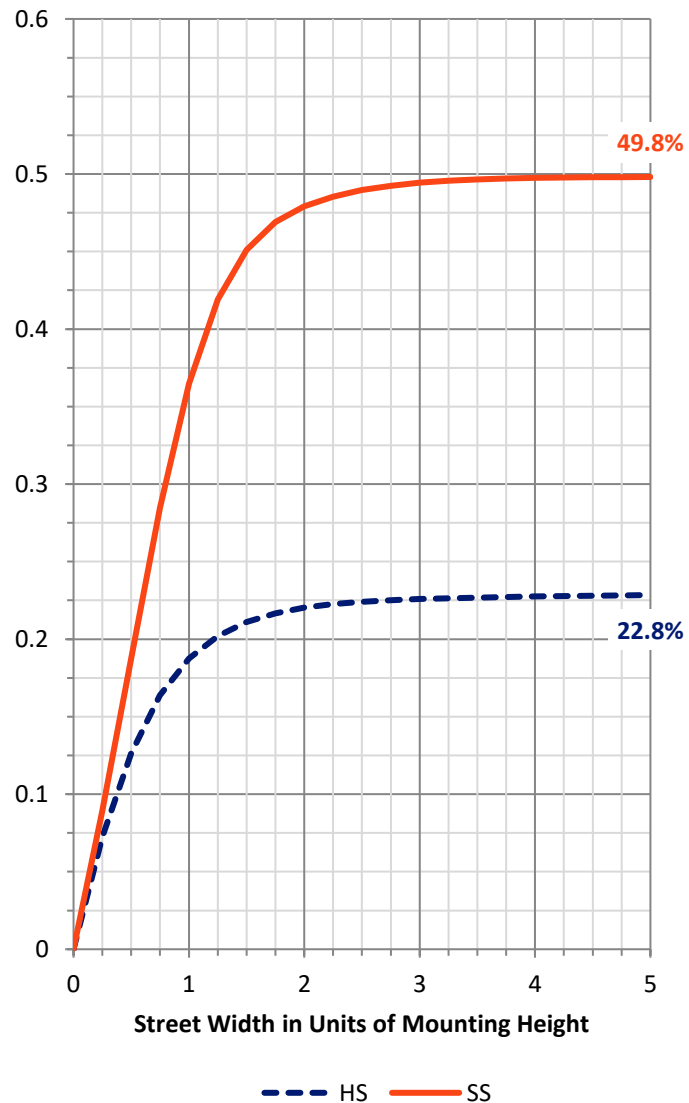
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7572.7	0.0	7572.7
	% Lamp	22.9	0.0	22.9
Street Side	Lumens	16436.4	0.0	16436.4
	% Lamp	49.8	0.0	49.8
Total	Lumens	24009.2	0.0	24009.2
	% Lamp	72.8	0.0	72.8

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	443.9	1.8	1.3
10°-20°	1364.1	5.7	4.1
20°-30°	2246.4	9.4	6.8
30°-40°	2982.1	12.4	9.0
40°-50°	4052.4	16.9	12.3
50°-60°	5090.1	21.2	15.4
60°-70°	5525.3	23.0	16.7
70°-80°	2256.1	9.4	6.8
80°-90°	48.9	0.2	0.1
90°-100°	0.0	0.0	0.0
100°-110°	0.0	0.0	0.0
110°-120°	0.0	0.0	0.0
120°-130°	0.0	0.0	0.0
130°-140°	0.0	0.0	0.0
140°-150°	0.0	0.0	0.0
150°-160°	0.0	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-90°	24009.2	100.0	72.8
0°-180°	24009.2	100.0	72.8

Coefficient of Utilization

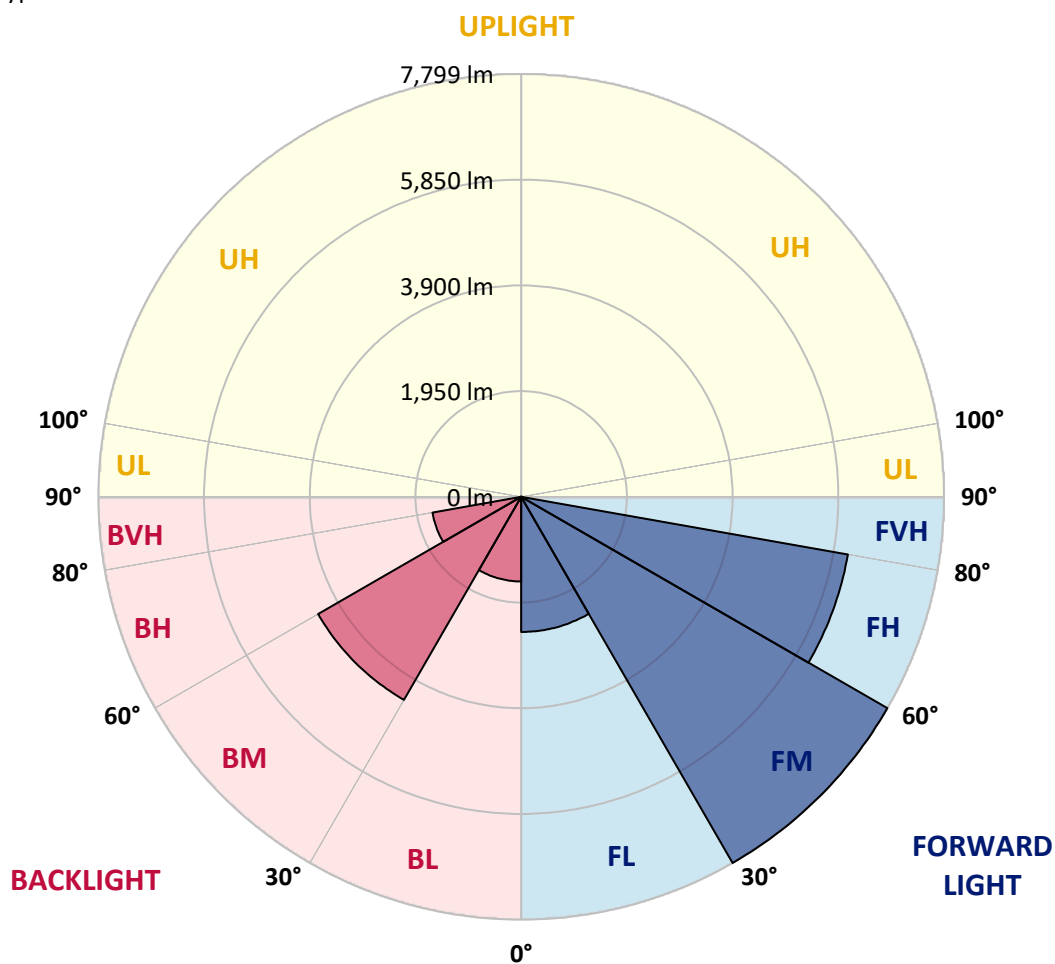


REPORT NUMBER: 768356_350MP
CATALOG NUMBER: TRU35PXX2F

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2493.0	7.6			
FM	(30°-60°)	7799.4	23.6			
FH	(60°-80°)	6119.9	18.5			G3/7500
FVH	(80°-90°)	24.2	0.1			G1/100
BL	(0°-30°)	1561.4	4.7	B3/2500		
BM	(30°-60°)	4325.1	13.1	B3/5000		
BH	(60°-80°)	1661.5	5.0	B3/2500		G3/2500
BVH	(80°-90°)	24.7	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	
Trapped Light		8990.8	27.2			

BUG Rating: B3-U0-G3
Type II Medium





REPORT NUMBER: 768356_350MP
CATALOG NUMBER: TRU35PXX2F

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	60°	62.5°	65°
0°	4547.1	4547.1	4547.1	4547.1	4547.1	4547.1	4547.1	4547.1	4547.1	4547.1	4547.1
2.5°	4887.8	4859.9	4843.1	4809.6	4787.3	4725.8	4711.9	4683.9	4667.2	4650.4	4650.4
5°	5306.8	5290.0	5245.3	5169.9	5086.1	4999.5	4946.5	4848.7	4812.4	4784.5	4753.7
7.5°	6033.0	5935.2	5851.4	5706.2	5538.6	5340.3	5206.2	5100.1	4999.5	4966.0	4918.5
10°	6465.9	6424.0	6298.3	6041.3	5748.1	5488.3	5393.4	5290.0	5183.9	5125.2	5074.9
12.5°	6619.5	6605.5	6479.8	6256.4	5921.2	5641.9	5527.4	5424.1	5320.7	5278.8	5236.9
15°	6619.5	6633.5	6549.7	6312.3	6088.8	5809.5	5753.7	5669.9	5580.5	5535.8	5482.7
17.5°	6736.8	6759.2	6661.4	6396.1	6186.6	6091.6	6033.0	5851.4	5641.9	5574.9	5513.5
20°	7010.5	6996.6	6759.2	6410.0	6284.3	6256.4	6164.2	5968.7	5711.8	5644.7	5552.6
22.5°	7038.5	7094.3	6842.9	6465.9	6396.1	6284.3	6158.6	6033.0	5823.5	5725.7	5658.7
25°	7234.0	7317.8	6856.9	6493.8	6354.2	6270.4	6172.6	6060.9	5907.3	5809.5	5711.8
27.5°	7820.5	7457.4	6826.2	6368.1	6133.5	6192.2	6186.6	6130.7	6005.0	5907.3	5795.6
30°	7625.0	7373.6	6608.3	6102.8	5949.2	6130.7	6273.2	6287.1	6119.5	5977.1	5865.4
32.5°	7150.2	7094.3	6326.2	5795.6	5851.4	6144.7	6306.7	6410.0	6186.6	6046.9	5907.3
35°	7010.5	6926.7	6393.3	5711.8	5795.6	6102.8	6270.4	6438.0	6298.3	6136.3	6005.0
37.5°	6982.6	6884.8	6549.7	5837.4	5781.6	6060.9	6278.7	6516.2	6479.8	6348.6	6167.0
40°	6954.7	6856.9	6507.8	5918.4	5753.7	6158.6	6451.9	6742.4	6661.4	6532.9	6312.3
42.5°	6926.7	6829.0	6549.7	6055.3	5641.9	6396.1	6479.8	6605.5	6591.6	6521.7	6396.1
45°	6787.1	6703.3	6535.7	6200.5	5516.2	6144.7	6270.4	6703.3	6954.7	7080.4	6996.6
47.5°	6340.2	6368.1	6368.1	6102.8	5320.7	5879.3	6440.7	7457.4	7937.8	8071.9	8002.1
50°	5669.9	5605.6	5572.1	5412.9	4753.7	5879.3	6935.1	8451.7	9510.3	9845.5	9705.8
52.5°	4468.9	4440.9	4580.6	4371.1	4482.8	5851.4	7234.0	9594.1	11314.6	11507.3	11660.9
55°	3575.1	3477.3	3527.6	3885.1	4234.2	5753.7	7415.5	10110.8	12247.5	12792.1	13043.5
57.5°	3100.3	3033.2	3077.9	3650.5	4189.6	5600.0	6940.7	9845.5	12560.3	13568.6	14398.1
60°	2731.6	2667.4	2804.2	3318.1	4510.8	5809.5	6745.2	10208.6	13713.8	15738.8	16716.3
62.5°	2396.4	2424.4	2575.2	2974.6	4371.1	6801.0	7764.6	11152.6	16339.3	18456.4	19914.4
65°	2133.9	2133.9	2318.2	2753.9	3449.4	5284.4	6884.8	10300.7	18336.3	21701.9	23891.6
66°	1991.4	2022.2	2212.1	2622.7	3253.9	4496.8	5977.1	9077.4	18434.0	22511.9	26017.1
67°	1854.6	1857.4	2111.5	2530.5	3044.4	3952.1	5158.7	8071.9	18224.6	22749.3	26757.3
68°	1703.8	1728.9	2008.2	2399.2	2932.7	3686.8	4552.7	7080.4	17844.7	23461.5	27944.3
69°	1536.2	1600.4	1890.9	2248.4	2767.9	3379.6	4008.0	5907.3	17791.6	25346.8	30262.6
70°	1390.9	1444.0	1726.1	2103.2	2645.0	3142.2	3561.1	4977.2	18104.5	26394.2	31449.6
71°	1242.9	1307.1	1589.2	1980.3	2530.5	2988.6	3239.9	4413.0	18559.7	27804.7	30150.8
72°	1106.0	1175.9	1460.8	1863.0	2362.9	2798.6	2932.7	3812.5	17987.2	26226.6	26667.9
73°	966.4	1036.2	1323.9	1734.5	2198.1	2617.1	2555.6	2815.4	15389.6	21813.6	19657.4
74°	770.9	801.6	1008.3	1536.2	1991.4	2189.7	1988.6	1782.0	11367.7	17386.7	13602.1
75°	494.4	586.5	675.9	1072.5	1552.9	1466.3	1131.2	1410.5	7206.0	10851.0	8323.3
77.5°	97.8	103.3	142.4	234.6	368.7	349.1	335.2	522.3	1717.7	2578.0	2011.0
80°	61.4	61.4	58.7	64.2	78.2	111.7	142.4	217.9	329.6	474.8	488.8
82.5°	36.3	36.3	33.5	27.9	33.5	47.5	58.7	89.4	100.5	114.5	111.7
85°	25.1	22.3	16.8	11.2	14.0	16.8	22.3	25.1	30.7	41.9	41.9
87.5°	16.8	16.8	8.4	2.8	0.0	0.0	0.0	2.8	2.8	5.6	5.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: 768356_350MP
CATALOG NUMBER: TRU35PXX2F

CANDELA DISTRIBUTION (continued):

	67.5°	70°	72.5°	75°	77.5°	80°	82.5°	85°	87.5°	90°	95°
0°	4547.1	4547.1	4547.1	4547.1	4547.1	4547.1	4547.1	4547.1	4547.1	4547.1	4547.1
2.5°	4639.2	4622.5	4602.9	4600.1	4594.5	4586.2	4577.8	4566.6	4544.3	4533.1	4508.0
5°	4728.6	4714.6	4683.9	4664.4	4650.4	4619.7	4597.3	4575.0	4549.9	4524.7	4488.4
7.5°	4879.4	4829.2	4806.8	4759.3	4725.8	4697.9	4658.8	4636.4	4591.8	4549.9	4482.8
10°	5035.8	4985.6	4932.5	4887.8	4851.5	4795.6	4737.0	4686.7	4628.1	4575.0	4468.9
12.5°	5200.6	5144.8	5114.1	5077.7	5024.7	4963.2	4901.8	4826.4	4748.2	4664.4	4510.8
15°	5418.5	5345.9	5259.3	5175.5	5097.3	5010.7	4924.1	4837.5	4751.0	4661.6	4494.0
17.5°	5452.0	5351.5	5267.7	5181.1	5094.5	5005.1	4913.0	4823.6	4742.6	4667.2	4510.8
20°	5485.5	5407.3	5323.5	5231.4	5158.7	5055.4	4963.2	4879.4	4804.0	4717.4	4575.0
22.5°	5558.1	5482.7	5410.1	5320.7	5234.2	5144.8	5044.2	4977.2	4893.4	4829.2	4678.3
25°	5633.6	5544.2	5482.7	5393.4	5312.4	5214.6	5116.8	5027.5	4952.1	4882.2	4737.0
27.5°	5711.8	5628.0	5524.6	5440.8	5334.7	5225.8	5116.8	5013.5	4924.1	4845.9	4695.1
30°	5739.7	5628.0	5521.8	5432.5	5323.5	5189.5	5094.5	4980.0	4887.8	4792.9	4625.3
32.5°	5795.6	5655.9	5524.6	5424.1	5320.7	5206.2	5074.9	4971.6	4865.5	4773.3	4605.7
35°	5851.4	5711.8	5558.1	5463.2	5371.0	5273.3	5164.3	5055.4	4949.3	4882.2	4717.4
37.5°	5985.5	5823.5	5683.8	5574.9	5471.6	5401.7	5334.7	5273.3	5217.4	5130.8	4968.8
40°	6088.8	5935.2	5798.3	5720.1	5692.2	5695.0	5622.4	5605.6	5572.1	5521.8	5281.6
42.5°	6273.2	6158.6	6130.7	6130.7	6102.8	6116.8	6080.4	6027.4	5960.3	5946.4	5734.1
45°	6954.7	6842.9	6829.0	6829.0	6842.9	6773.1	6745.2	6689.3	6661.4	6479.8	6284.3
47.5°	8043.9	7954.6	8099.8	8057.9	7848.4	7750.7	7714.4	7583.1	7457.4	7289.8	7016.1
50°	9873.4	9845.5	9848.3	9644.4	9217.0	8951.7	8714.3	8574.6	8407.0	8113.8	7555.2
52.5°	11521.3	11926.3	11842.5	11633.0	11119.1	10783.9	10515.8	10180.6	9580.1	9007.5	8085.8
55°	13107.7	13280.9	13155.2	12591.0	11976.5	11549.2	11493.3	11574.3	11325.8	10568.9	9007.5
57.5°	14607.6	14803.1	14389.7	13546.2	12456.9	11496.1	10934.7	10711.3	10878.9	10616.3	8826.0
60°	17261.0	17051.5	16492.9	14551.7	12331.3	10697.3	9761.7	9300.8	9300.8	8923.8	7778.6
62.5°	20040.0	20486.9	18858.6	15699.7	12331.3	9733.7	8057.9	7192.1	7164.1	6675.4	6158.6
65°	25006.1	24872.0	23673.8	18783.2	13308.8	9412.5	6884.8	5753.7	5290.0	5102.9	4773.3
66°	26938.8	27385.7	26944.4	21528.7	14663.4	9971.1	6787.1	5530.2	5248.1	5111.3	4985.6
67°	29625.7	30388.2	29865.9	24872.0	16953.7	11535.2	7834.5	6256.4	5871.0	5711.8	5250.9
68°	31818.3	33307.0	32742.8	27695.8	20095.9	14160.7	10124.8	7625.0	6661.4	6340.2	4748.2
69°	33572.3	34885.0	34027.6	28757.1	21464.5	16492.9	12261.4	8895.8	7055.2	5949.2	3865.6
70°	33474.6	33904.7	32273.5	27776.8	19746.8	15319.8	11755.9	8351.2	6326.2	4706.3	3069.5
71°	29452.6	27958.3	26045.1	23307.9	16241.5	12767.0	9803.6	7038.5	5236.9	3974.5	2572.4
72°	22609.6	21101.4	18559.7	16875.5	13018.3	10258.8	7555.2	5759.2	4133.7	3248.3	2321.0
73°	16115.8	14705.3	12345.2	11297.8	9060.6	6842.9	5803.9	4161.6	3267.9	2656.2	2170.2
74°	10624.7	9018.7	7778.6	6829.0	6158.6	5223.0	4454.9	3329.3	2672.9	2287.5	2016.6
75°	7192.1	5865.4	4773.3	3982.9	3784.6	3323.7	2860.1	2307.0	2064.1	1804.3	1807.1
77.5°	1795.9	1399.3	1044.6	907.7	935.7	1005.5	1055.8	877.0	793.2	754.1	1016.7
80°	365.9	343.5	251.4	265.3	248.6	265.3	268.1	259.8	270.9	259.8	326.8
82.5°	108.9	106.1	108.9	103.3	100.5	92.2	89.4	97.8	86.6	78.2	81.0
85°	36.3	39.1	39.1	36.3	36.3	33.5	27.9	25.1	22.3	22.3	22.3
87.5°	8.4	8.4	8.4	5.6	2.8	2.8	2.8	2.8	2.8	2.8	2.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: 768356_350MP
CATALOG NUMBER: TRU35PXX2F

CANDELA DISTRIBUTION (continued):

	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4547.1	4547.1	4547.1	4547.1	4547.1	4547.1	4547.1	4547.1	4547.1
2.5°	4460.5	4387.9	4320.8	4301.3	4301.3	4273.3	4245.4	4245.4	4245.4
5°	4415.8	4309.7	4231.5	4147.7	4063.9	3994.0	4022.0	3994.0	3994.0
7.5°	4376.7	4228.7	4105.8	4022.0	3946.6	3868.4	3784.6	3759.4	3770.6
10°	4304.1	4164.4	4022.0	3927.0	3815.3	3731.5	3644.9	3589.1	3575.1
12.5°	4273.3	4094.6	3932.6	3826.5	3686.8	3575.1	3482.9	3393.5	3435.4
15°	4251.0	4044.3	3868.4	3728.7	3575.1	3438.2	3323.7	3253.9	3267.9
17.5°	4259.4	4013.6	3812.5	3630.9	3491.3	3334.9	3212.0	3142.2	3128.2
20°	4278.9	3971.7	3756.6	3547.2	3379.6	3239.9	3133.8	3072.3	3072.3
22.5°	4354.3	3994.0	3630.9	3421.5	3323.7	3184.1	3044.4	2988.6	2960.6
25°	4454.9	4058.3	3561.1	3337.7	3253.9	3114.2	2938.3	2862.9	2848.9
27.5°	4468.9	4058.3	3519.2	3267.9	3198.0	3058.4	2848.9	2815.4	2809.8
30°	4379.5	3963.3	3407.5	3192.4	3156.1	3016.5	2793.0	2726.0	2717.6
32.5°	4309.7	3865.6	3407.5	3156.1	3089.1	2988.6	2773.5	2583.6	2558.4
35°	4393.4	3901.9	3449.4	3156.1	2988.6	2890.8	2619.9	2427.1	2404.8
37.5°	4647.6	4033.1	3591.8	3172.9	2876.8	2759.5	2536.1	2318.2	2323.8
40°	4991.2	4329.2	3770.6	3223.2	2809.8	2591.9	2633.8	2326.6	2365.7
42.5°	5412.9	4795.6	4203.5	3184.1	2726.0	2483.0	2991.3	2351.7	2421.6
45°	6046.9	5496.7	4636.4	3114.2	2622.7	2281.9	3357.2	2103.2	2106.0
47.5°	6619.5	6116.8	4656.0	2924.3	2527.7	2170.2	2474.6	1865.7	1823.9
50°	6870.9	5991.1	4357.1	2876.8	2441.1	2175.8	1863.0	1804.3	1756.8
52.5°	6884.8	5753.7	4035.9	2904.8	2332.2	2078.0	1647.9	1650.7	1659.1
55°	7055.2	5809.5	3896.3	2938.3	2220.5	1804.3	1502.7	1516.6	1483.1
57.5°	6348.6	5641.9	3728.7	2837.7	2114.3	1561.3	1335.1	1379.8	1365.8
60°	5432.5	4633.6	3323.7	2670.1	2038.9	1424.4	1167.5	1279.2	1256.9
62.5°	4650.4	3910.3	2974.6	2555.6	1966.3	1329.5	1025.0	1187.0	1167.5
65°	4538.7	3477.3	2848.9	2410.4	1860.2	1223.4	916.1	983.1	1131.2
66°	4413.0	3309.7	2759.5	2312.6	1782.0	1170.3	879.8	893.8	1078.1
67°	3994.0	3114.2	2645.0	2206.5	1717.7	1111.6	879.8	849.1	1013.9
68°	3360.0	2566.8	2343.4	2075.2	1620.0	1019.5	885.4	815.6	930.1
69°	2723.2	1980.3	1614.4	1745.6	1404.9	918.9	910.5	770.9	790.4
70°	2312.6	1455.2	1178.7	1139.6	1022.3	742.9	930.1	689.9	670.3
71°	2108.7	1307.1	882.6	784.8	754.1	553.0	927.3	578.2	567.0
72°	1885.3	1128.4	692.7	634.0	617.3	446.9	907.7	497.2	466.4
73°	1742.9	980.4	589.3	527.9	511.1	382.6	896.6	455.3	427.3
74°	1647.9	868.6	513.9	427.3	379.9	293.3	893.8	444.1	399.4
75°	1631.1	770.9	449.7	346.3	296.1	223.4	885.4	430.1	371.5
77.5°	1279.2	486.0	268.1	237.4	156.4	114.5	645.2	396.6	296.1
80°	472.0	184.3	131.3	111.7	81.0	58.7	254.2	243.0	189.9
82.5°	86.6	67.0	58.7	53.1	36.3	27.9	50.3	55.9	41.9
85°	22.3	19.6	22.3	27.9	16.8	11.2	14.0	11.2	11.2
87.5°	2.8	2.8	8.4	8.4	2.8	2.8	5.6	2.8	2.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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