

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: 768357_320MP

Luminaire Tested: **TRU32PXX3F**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: 768357_320MP
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: TRU32PXX3F
Description: ARCHITECTURAL AREA LUMINAIRE - TYPE III
Light Source: 320 WATT PULSE-START CLEAR ED-28 HORIZONTAL BURN
Ballast/Driver: -

Summary

Lumens per Lamp: 30000 (1 lamp)
Luminaire Lumens: 20799.9 lumens
Efficiency: 69.3%
Efficacy: 59.4 lumens/watt
Luminous Opening: Rectangular (W 1.1' x L: 1.1' x H: 0')
IES Classification: Type III - Medium - Full Cutoff
BUG Rating: B3 - U0 - G3

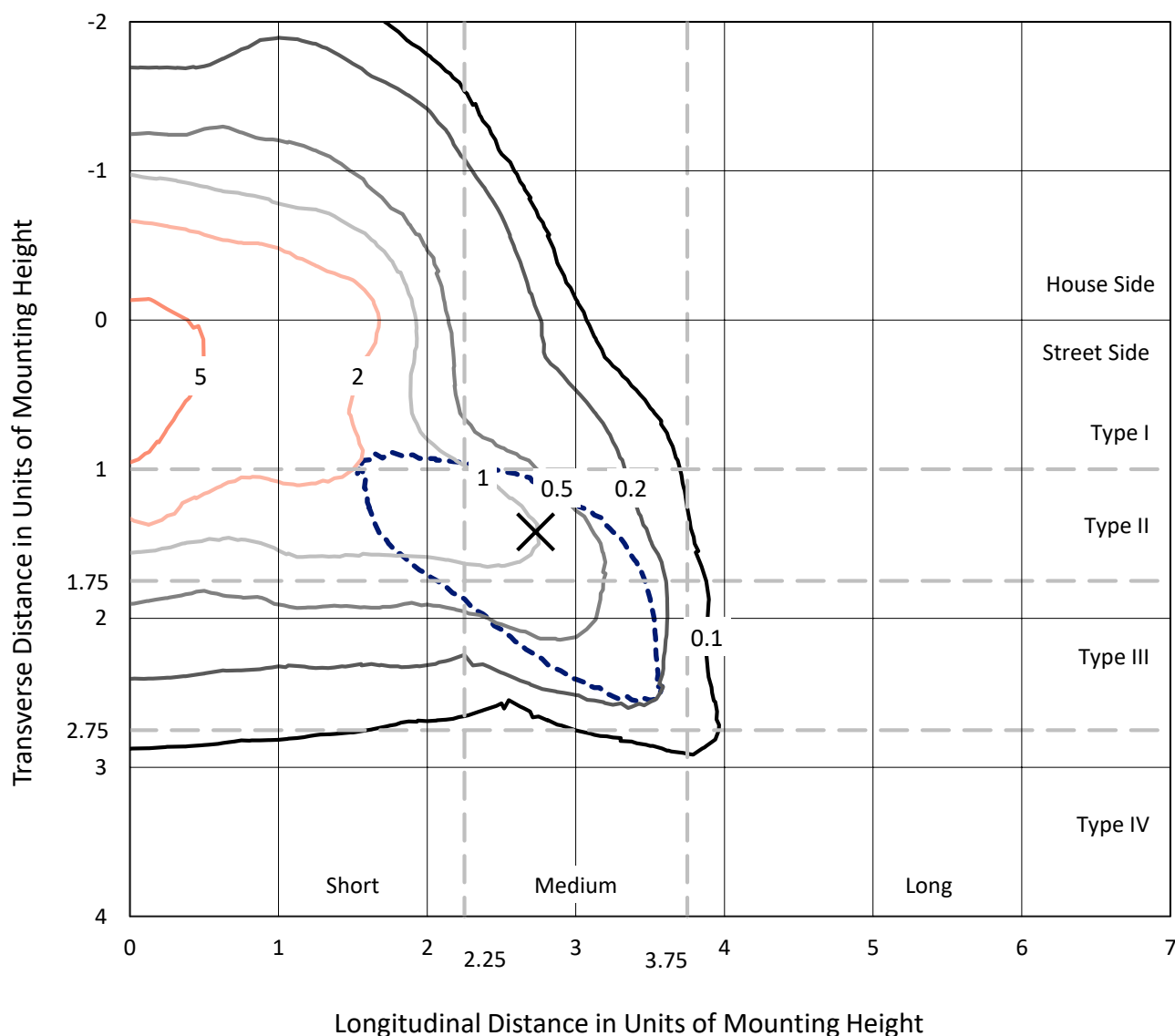
Input Watts (W): 350
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: 768357_320MP
 CATALOG NUMBER: TRU32PXX3F

Iso-Footcandle Lines of Horizontal Illumination

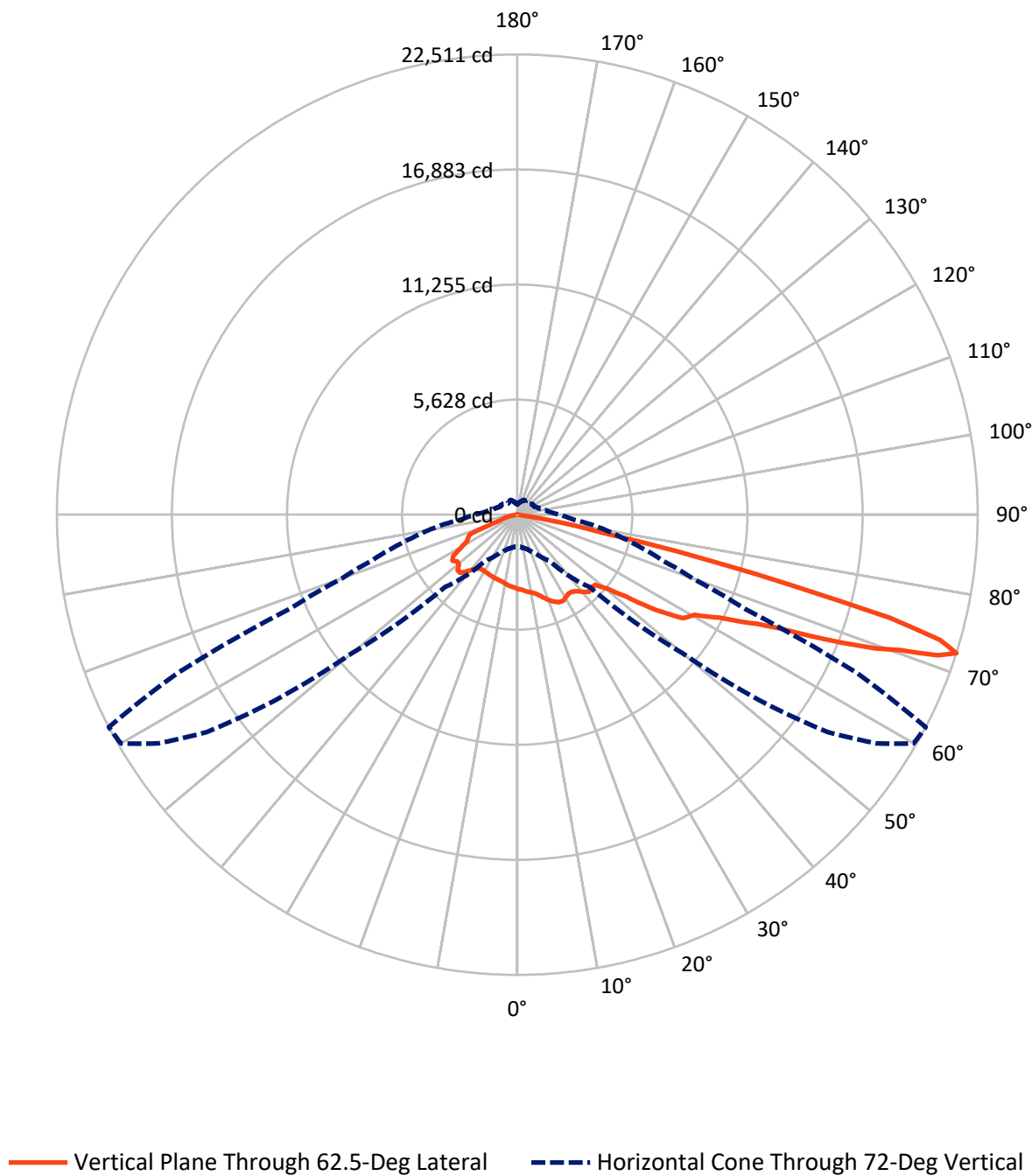
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type III - Medium - Full Cutoff

REPORT NUMBER: 768357_320MP
CATALOG NUMBER: TRU32PXX3F

Luminous Intensity Polar Plot



REPORT NUMBER: 768357_320MP

CATALOG NUMBER: TRU32PXX3F

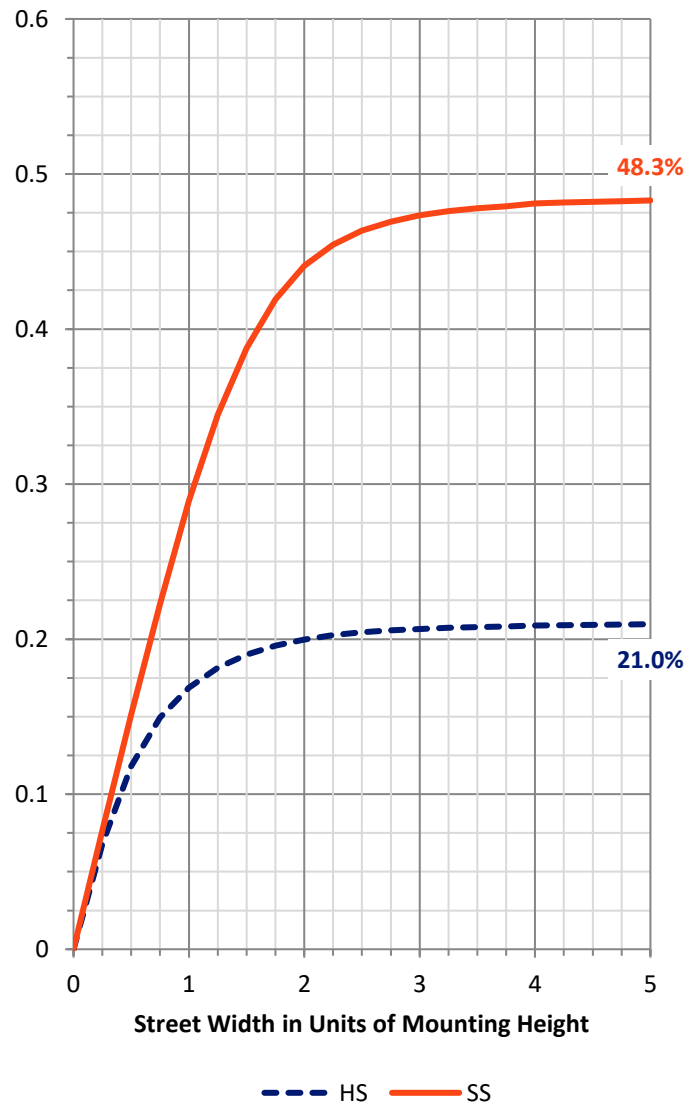
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6321.7	0.0	6321.7
	% Lamp	21.1	0.0	21.1
Street Side	Lumens	14478.2	0.0	14478.2
	% Lamp	48.3	0.0	48.3
Total	Lumens	20799.9	0.0	20799.9
	% Lamp	69.3	0.0	69.3

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	346.8	1.7	1.2
10°-20°	1064.2	5.1	3.5
20°-30°	1871.0	9.0	6.2
30°-40°	2634.0	12.7	8.8
40°-50°	3422.9	16.5	11.4
50°-60°	4419.4	21.2	14.7
60°-70°	4323.4	20.8	14.4
70°-80°	2619.1	12.6	8.7
80°-90°	99.0	0.5	0.3
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°	20799.9	100.0	69.3
0°-180°	20799.9	100.0	69.3

Coefficient of Utilization

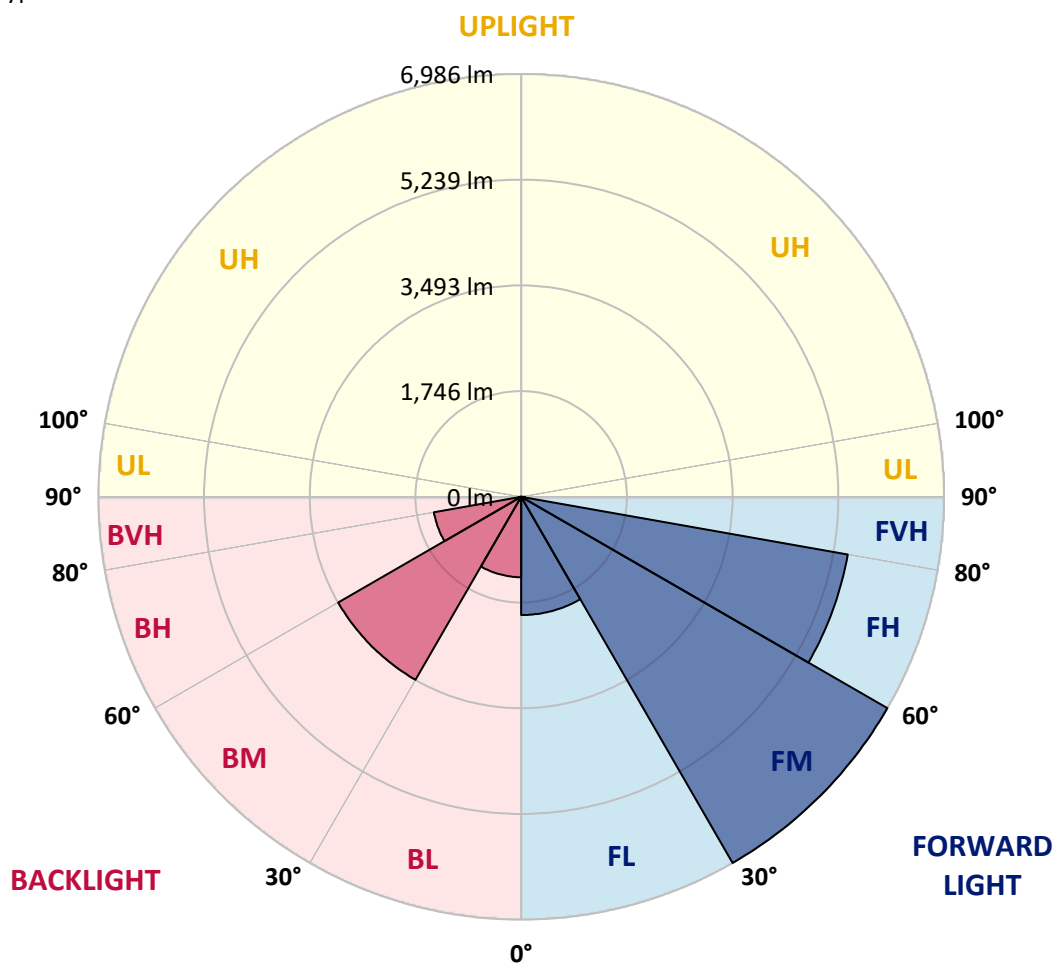


REPORT NUMBER: 768357_320MP
CATALOG NUMBER: TRU32PXX3F

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1953.7	6.5			
FM	(30°-60°)	6985.7	23.3			
FH	(60°-80°)	5478.8	18.3			G3/7500
FVH	(80°-90°)	60.0	0.2			G1/100
BL	(0°-30°)	1328.3	4.4	B3/2500		
BM	(30°-60°)	3490.6	11.6	B3/5000		
BH	(60°-80°)	1463.8	4.9	B3/2500		G3/2500
BVH	(80°-90°)	39.1	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	
Trapped Light		9200.1	30.7			

BUG Rating: B3-U0-G3
Type III Medium





REPORT NUMBER: 768357_320MP
CATALOG NUMBER: TRU32PXX3F

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	52.5°	55°	57.5°	60°
0°	3636.5	3636.5	3636.5	3636.5	3636.5	3636.5	3636.5	3636.5	3636.5	3636.5	3636.5
2.5°	3772.0	3753.7	3753.7	3748.2	3726.2	3704.2	3698.7	3680.4	3680.4	3671.3	3671.3
5°	3900.1	3872.7	3872.7	3845.2	3815.9	3781.1	3762.8	3761.0	3744.5	3753.7	3735.3
7.5°	4010.0	3991.7	3991.7	3936.8	3891.0	3863.5	3854.4	3845.2	3845.2	3845.2	3828.7
10°	4174.8	4189.4	4119.9	4114.4	4064.9	4006.3	3978.9	3955.1	3936.8	3918.4	3892.8
12.5°	4431.1	4431.1	4339.6	4284.7	4211.4	4110.7	4046.6	4028.3	3991.7	3982.5	3964.2
15°	4632.6	4605.1	4522.7	4467.8	4385.4	4257.2	4284.7	4248.0	4220.6	4193.1	4156.5
17.5°	4760.7	4751.6	4705.8	4678.3	4623.4	4623.4	4524.5	4486.1	4433.0	4378.0	4330.4
20°	4916.4	4925.5	4953.0	4888.9	4870.6	4760.7	4724.1	4678.3	4623.4	4568.5	4522.7
22.5°	5053.7	5081.2	5145.3	5094.0	5062.9	4925.5	4843.1	4815.7	4769.9	4715.0	4669.2
25°	5310.0	5465.7	5449.2	5397.9	5300.9	5117.8	5007.9	4953.0	4934.7	4881.6	4834.0
27.5°	6097.4	6188.9	5877.7	5703.7	5529.8	5246.0	5108.6	5035.4	4996.9	4953.0	4861.4
30°	7086.2	6930.5	6381.2	5932.6	5577.4	5233.1	5099.5	5007.9	4943.8	4861.4	4779.0
32.5°	7910.1	7644.6	6514.9	5886.8	5355.8	5154.4	5017.1	4954.8	4879.7	4769.9	4674.7
35°	8569.3	8212.3	6564.3	5720.2	5246.0	5126.9	5026.2	4971.3	4876.1	4747.9	4660.0
37.5°	8605.9	8303.8	6683.3	5709.2	5291.7	5209.3	5114.1	5026.2	4925.5	4824.8	4788.2
40°	8551.0	8175.6	6637.6	5720.2	5383.3	5337.5	5275.3	5227.6	5154.4	5053.7	4991.4
42.5°	8355.1	7970.6	6417.8	5712.9	5529.8	5538.9	5538.9	5511.5	5440.0	5313.7	5224.0
45°	8074.9	7690.4	6289.7	5886.8	5767.8	5777.0	5795.3	5703.7	5584.7	5383.3	5207.5
47.5°	7763.7	7342.5	6152.3	6069.9	5927.1	5841.0	5941.8	5923.4	5804.4	5612.2	5346.7
50°	7196.0	6871.9	5859.4	5667.1	5645.1	5994.9	6527.7	6600.9	6509.4	6298.8	5996.7
52.5°	6079.1	8953.8	5117.8	4936.5	5346.7	6698.0	7479.8	7836.9	8056.6	7782.0	7214.3
55°	4595.9	4586.8	4394.5	4385.4	5136.1	7461.5	8999.6	9530.6	9732.0	9497.7	8679.2
57.5°	3826.9	3762.8	3744.5	4193.1	4980.5	8111.6	9902.3	10620.1	10986.3	10922.2	10349.1
60°	3477.2	3319.7	3250.1	4394.5	5520.6	7554.9	9331.0	10061.6	10720.8	11006.4	10748.3
62.5°	3057.9	2960.8	2883.9	4129.0	6628.4	7921.1	9272.4	10299.7	10977.1	11332.4	11636.3
65°	2581.8	2609.2	2528.7	3392.9	6417.8	9027.1	10993.6	12084.9	13042.6	13692.6	13595.5
66°	2417.0	2444.5	2435.3	3140.3	5676.3	9072.9	11389.1	12808.2	13879.4	14721.6	14822.3
67°	2257.7	2279.7	2352.9	2856.4	4916.4	8816.5	11627.2	13375.8	14674.0	15884.4	16406.2
68°	2122.2	2136.8	2215.6	2656.9	4266.3	8496.1	11645.5	13696.3	15481.5	16882.3	17971.8
69°	2027.0	2005.0	2096.6	2453.6	3772.0	7772.8	11453.2	13879.4	16397.1	18228.1	19052.1
70°	1849.4	1849.4	1959.2	2325.4	3369.1	6848.1	11109.0	14135.7	17193.6	19216.9	20205.6
71°	1745.0	1737.7	1832.9	2215.6	3032.2	5859.4	10772.1	14447.0	17852.7	20123.2	21441.6
72°	1585.7	1578.4	1723.0	2072.7	2768.5	5007.9	10546.8	14941.4	18539.4	20808.1	22375.4
73°	1402.6	1420.9	1596.7	1931.8	2499.4	4273.7	10382.1	15375.3	18914.7	20892.3	22055.0
74°	1294.6	1294.6	1446.5	1812.7	2224.7	3588.9	9966.4	15481.5	18632.8	20077.5	19486.0
75°	1122.4	1120.6	1303.7	1686.4	2021.5	2902.2	9193.7	14813.2	17404.1	17863.7	16333.0
77.5°	661.0	651.9	776.4	1084.0	1311.0	1338.5	4830.3	9173.6	10272.2	7340.7	5657.9
80°	115.4	124.5	206.9	239.9	355.2	316.8	1137.1	2444.5	2305.3	1759.6	1300.0
82.5°	45.8	45.8	49.4	51.3	75.1	100.7	170.3	245.4	291.1	247.2	195.9
85°	25.6	22.0	22.0	23.8	31.1	34.8	38.5	38.5	42.1	47.6	45.8
87.5°	14.6	12.8	9.2	5.5	5.5	5.5	5.5	7.3	7.3	7.3	7.3
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: 768357_320MP
CATALOG NUMBER: TRU32PXX3F

CANDELA DISTRIBUTION (continued):

	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°	85°	90°	95°
0°	3636.5	3636.5	3636.5	3636.5	3636.5	3636.5	3636.5	3636.5	3636.5	3636.5	3636.5
2.5°	3665.8	3660.3	3662.1	3652.9	3652.9	3643.8	3656.6	3652.9	3616.3	3607.2	3607.2
5°	3735.3	3726.2	3724.4	3715.2	3707.9	3687.7	3689.6	3671.3	3652.9	3634.6	3616.3
7.5°	3817.7	3801.3	3790.3	3781.1	3762.8	3746.3	3735.3	3707.9	3680.4	3643.8	3616.3
10°	3869.0	3845.2	3826.9	3808.6	3781.1	3753.7	3726.2	3698.7	3652.9	3607.2	3579.7
12.5°	3955.1	3955.1	3934.9	3909.3	3892.8	3863.5	3826.9	3790.3	3717.0	3643.8	3579.7
15°	4110.7	4083.2	4043.0	4010.0	3973.4	3927.6	3892.8	3845.2	3762.8	3652.9	3570.5
17.5°	4284.7	4238.9	4165.6	4094.2	5092.2	3991.7	3955.1	3909.3	3817.7	3707.9	3616.3
20°	4467.8	4403.7	4339.6	4275.5	4211.4	4156.5	4097.9	4055.8	3933.1	3808.6	3691.4
22.5°	4623.4	4577.6	4513.5	4449.5	4376.2	4303.0	4248.0	4174.8	4055.8	3909.3	3781.1
25°	4746.1	4676.5	4606.9	4550.2	4471.4	4412.8	4339.6	4284.7	4183.9	4050.3	3898.3
27.5°	4779.0	4678.3	4614.2	4541.0	4486.1	4431.1	4385.4	4339.6	4248.0	4178.5	4028.3
30°	4678.3	4595.9	4541.0	4504.4	4467.8	4422.0	4394.5	4381.7	4330.4	4248.0	4101.6
32.5°	4605.1	4559.3	4506.2	4504.4	4467.8	4431.1	4409.2	4394.5	4348.7	4271.8	4138.2
35°	4623.4	4586.8	4577.6	4539.2	4537.3	4526.4	4508.0	4486.1	4440.3	4350.6	4193.1
37.5°	4751.6	4760.7	4757.1	4724.1	4715.0	4678.3	4678.3	4652.7	4632.6	4513.5	4314.0
40°	4973.1	4998.8	4989.6	4971.3	4934.7	4907.2	4865.1	4861.4	4826.6	4755.2	4541.0
42.5°	5154.4	5099.5	5062.9	5026.2	5011.6	5007.9	4980.5	4980.5	4980.5	5022.6	4881.6
45°	5079.3	5007.9	4962.1	4932.8	6262.2	5035.4	5108.6	5163.6	5255.1	5374.1	5282.6
47.5°	5126.9	5035.4	5072.0	5145.3	5291.7	5452.9	5575.5	5612.2	5740.3	5813.6	5767.8
50°	5685.4	5584.7	5603.0	5767.8	6033.3	6124.9	6170.6	6262.2	6445.3	6500.2	6353.7
52.5°	6648.5	6353.7	6456.3	6683.3	6795.0	6994.6	6981.8	7011.1	7197.9	7214.3	6875.6
55°	8232.4	7745.3	7736.2	7723.4	7662.9	7668.4	7672.1	7727.0	8413.7	8715.8	8413.7
57.5°	9558.1	8734.1	8313.0	8221.4	8230.6	8258.0	8389.9	8642.6	9960.9	10537.7	9375.0
60°	9951.8	9118.6	8516.2	8043.8	7597.0	7580.5	7681.3	7827.7	8258.0	8591.3	8093.2
62.5°	11096.2	10006.7	8697.5	7728.9	7135.6	6793.2	6509.4	6308.0	6665.0	6326.3	5769.6
65°	12875.9	10794.0	8725.0	7003.8	5960.1	5447.4	5090.3	4879.7	4550.2	4028.3	3652.9
66°	13888.5	11471.5	9036.2	6959.8	5701.9	5007.9	4508.0	4238.9	3781.1	3488.2	3369.1
67°	15472.4	12606.8	9667.9	7159.4	5484.0	4504.4	4099.7	3744.5	3305.0	3369.1	3341.7
68°	17092.9	13862.9	10440.6	7492.7	5308.2	4248.0	3781.1	3616.3	3250.1	3427.7	3398.4
69°	18695.0	15509.0	11266.5	7882.7	5493.2	4275.5	3955.1	3836.0	3277.6	3506.5	3286.7
70°	19839.4	16607.6	11857.9	8532.7	6134.0	4779.0	4385.4	4143.7	3327.0	3237.3	2673.3
71°	21676.0	17821.6	12139.9	9045.4	6963.5	5657.9	4980.5	4478.7	3195.2	2664.2	1922.6
72°	22510.9	18306.8	12030.0	9146.1	7437.7	6317.1	5282.6	4412.8	2761.2	2032.5	1550.9
73°	21571.6	17156.9	11013.8	8419.2	7020.2	5923.4	5017.1	4092.4	2243.0	1646.1	1351.3
74°	18914.7	14840.7	9594.7	7489.0	6174.3	5282.6	4379.9	3394.8	1818.2	1393.4	1153.6
75°	13952.6	11050.4	7470.7	5831.9	4887.1	4194.9	3512.0	2920.5	1514.3	1188.4	1049.2
77.5°	4202.3	3533.9	2424.3	2206.4	1994.0	1768.8	1591.2	1486.8	975.9	990.6	957.6
80°	1093.1	717.8	558.5	542.0	576.8	512.7	607.9	525.5	443.1	532.8	604.2
82.5°	157.5	148.3	124.5	111.7	128.2	137.3	155.6	166.6	139.2	161.1	181.3
85°	43.9	38.5	38.5	36.6	38.5	34.8	29.3	31.1	25.6	25.6	25.6
87.5°	7.3	7.3	5.5	5.5	3.7	3.7	3.7	3.7	1.8	1.8	3.7
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: 768357_320MP

CATALOG NUMBER: TRU32PXX3F

CANDELA DISTRIBUTION (continued):

	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3636.5	3636.5	3636.5	3636.5	3636.5	3636.5	3636.5	3636.5	3636.5
2.5°	3588.9	3570.5	3561.4	3552.2	3533.9	3533.9	3524.8	3515.6	3517.4
5°	3570.5	3543.1	3506.5	3451.5	3424.1	3387.4	3369.1	3369.1	3369.1
7.5°	3552.2	3497.3	3442.4	3387.4	3350.8	3299.6	3255.6	3204.3	3204.3
10°	3499.1	3442.4	3387.4	3341.7	3281.2	3213.5	3127.4	3067.0	3039.5
12.5°	3469.8	3387.4	3328.8	3268.4	3195.2	3094.5	3012.1	2957.1	2948.0
15°	3449.7	3350.8	3268.4	3213.5	3131.1	3008.4	2929.7	2885.7	2874.7
17.5°	3460.7	3332.5	3222.6	3120.1	3039.5	2938.8	2854.6	2829.0	2801.5
20°	3497.3	3332.5	3158.6	3052.4	2975.5	2874.7	2801.5	2764.9	2764.9
22.5°	3552.2	3314.2	3112.8	3002.9	2920.5	2818.0	2719.1	2699.0	2691.6
25°	3607.2	3295.9	3085.3	2966.3	2874.7	2746.6	2636.7	2609.2	2618.4
27.5°	3671.3	3268.4	3048.7	2929.7	2801.5	2622.1	2508.5	2492.1	2508.5
30°	3717.0	3268.4	3021.2	2861.9	2728.3	2517.7	2362.1	2362.1	2367.5
32.5°	3744.5	3259.3	2959.0	2783.2	2620.2	2334.6	2210.1	2197.3	2197.3
35°	3790.3	3286.7	2929.7	2691.6	2444.5	2173.5	2096.6	2050.8	2050.8
37.5°	3918.4	3396.6	3030.4	2563.5	2230.2	2041.6	1950.1	1886.0	1904.3
40°	4183.9	3643.8	3048.7	2435.3	2113.0	1931.8	1832.9	1790.8	1823.7
42.5°	4504.4	3982.5	3048.7	2325.4	2032.5	1834.7	1752.3	1679.1	1721.2
45°	5044.5	4321.3	2975.5	2298.0	1959.2	1768.8	1690.1	1591.2	1673.6
47.5°	5487.7	4368.9	2838.1	2288.8	1900.6	1675.4	1591.2	1479.5	1468.5
50°	5520.6	4074.1	2746.6	2288.8	1849.4	1657.1	1435.5	1389.8	1323.8
52.5°	5767.8	4028.3	2794.2	2288.8	1843.9	1723.0	1287.2	1237.8	1223.1
55°	6046.1	4238.9	2847.3	2288.8	1814.6	1721.2	1177.4	1096.8	1107.8
57.5°	6188.9	4046.6	2819.8	2252.2	1759.6	1507.0	1087.6	1010.7	1007.1
60°	5500.5	3378.3	2671.5	2224.7	1721.2	1387.9	1007.1	935.7	926.5
62.5°	4028.3	2871.1	2526.8	2169.8	1770.6	1461.2	930.2	838.6	833.1
65°	3259.3	2710.0	2490.2	2078.2	1909.8	1549.1	853.3	781.9	789.2
66°	3277.6	2673.3	2462.8	2023.3	1856.7	1571.0	847.8	763.5	787.4
67°	3231.8	2609.2	2407.8	1959.2	1756.0	1638.8	842.3	743.4	759.9
68°	3107.3	2508.5	2343.7	1873.2	1616.8	1673.6	813.0	703.1	719.6
69°	2719.1	2050.8	1995.8	1536.3	1417.2	1576.5	785.5	644.5	675.7
70°	1959.2	1444.7	1419.1	1126.1	1078.5	1336.7	730.6	593.3	593.3
71°	1406.2	1054.7	1043.7	822.1	840.5	1001.6	679.3	564.0	536.5
72°	1135.3	924.7	899.0	732.4	710.4	791.0	661.0	534.7	499.9
73°	952.1	833.1	813.0	653.7	622.6	602.4	657.3	494.4	455.9
74°	816.6	787.4	726.9	606.1	542.0	487.1	644.5	459.6	404.7
75°	748.9	728.8	622.6	534.7	468.7	423.0	609.7	415.6	366.2
77.5°	681.2	518.2	408.3	371.7	276.5	223.4	417.5	351.6	285.6
80°	617.1	276.5	199.6	190.4	142.8	104.4	236.2	282.0	214.2
82.5°	212.4	91.6	78.7	86.1	69.6	51.3	73.2	113.5	91.6
85°	36.6	31.1	27.5	33.0	31.1	25.6	25.6	23.8	22.0
87.5°	5.5	9.2	9.2	7.3	9.2	9.2	11.0	9.2	9.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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