

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: 768374

Luminaire Tested: **TRU40SXX4F**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: 768374
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: TRU40SXX4F
Description: ARCHITECTURAL AREA LUMINAIRE - TYPE IV
Light Source: 400 WATT HPS CLEAR E-18
Ballast/Driver: -

Summary

Lumens per Lamp: 50000 (1 lamp)
Luminaire Lumens: 27080.2 lumens
Efficiency: 54.2%
Efficacy: 58.2 lumens/watt
Luminous Opening: Rectangular (W 1.08' x L: 1.08' x H: 0')
IES Classification: Type IV - Short - Full Cutoff
BUG Rating: B4 - U0 - G3

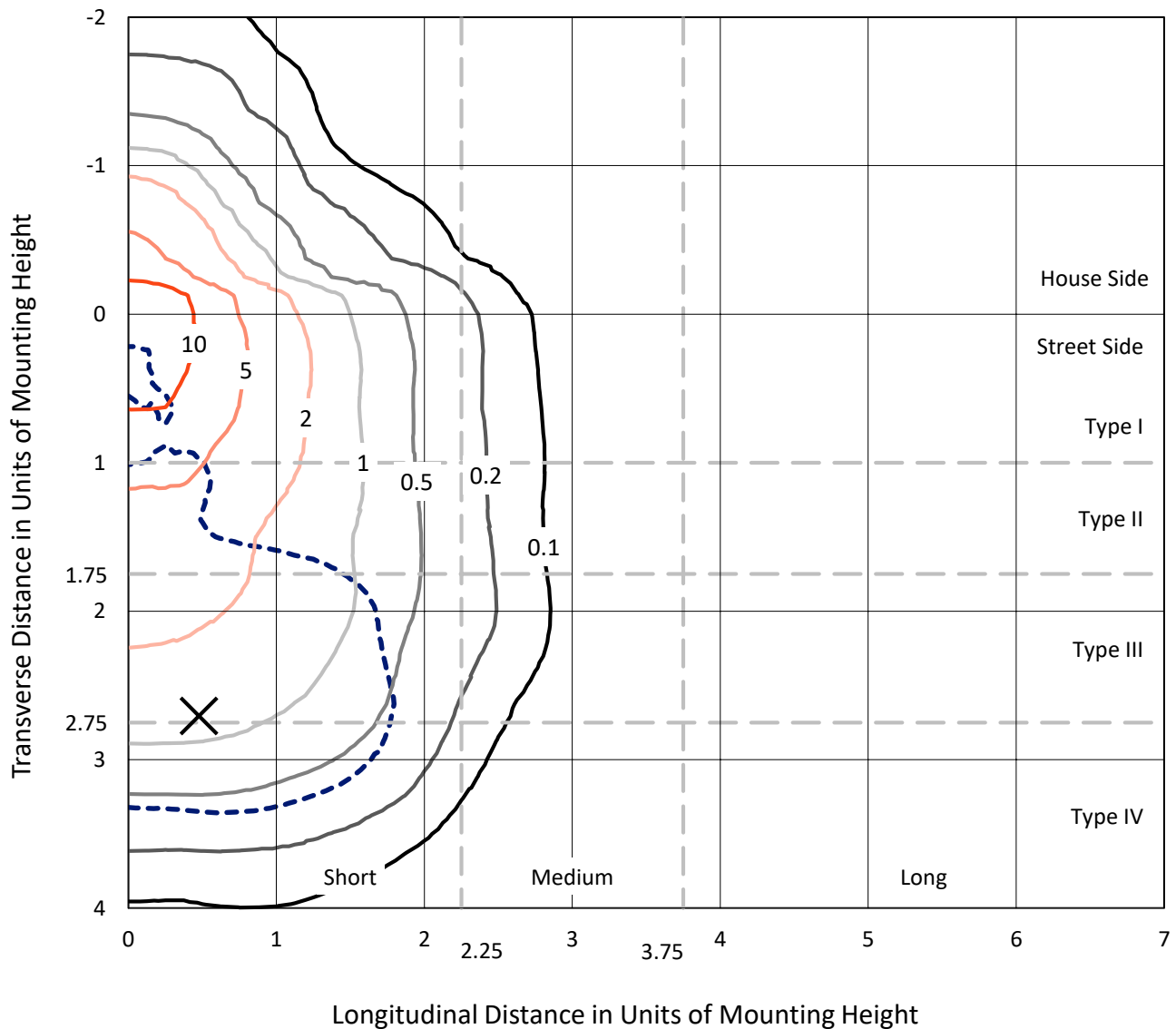
Input Watts (W): 465
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

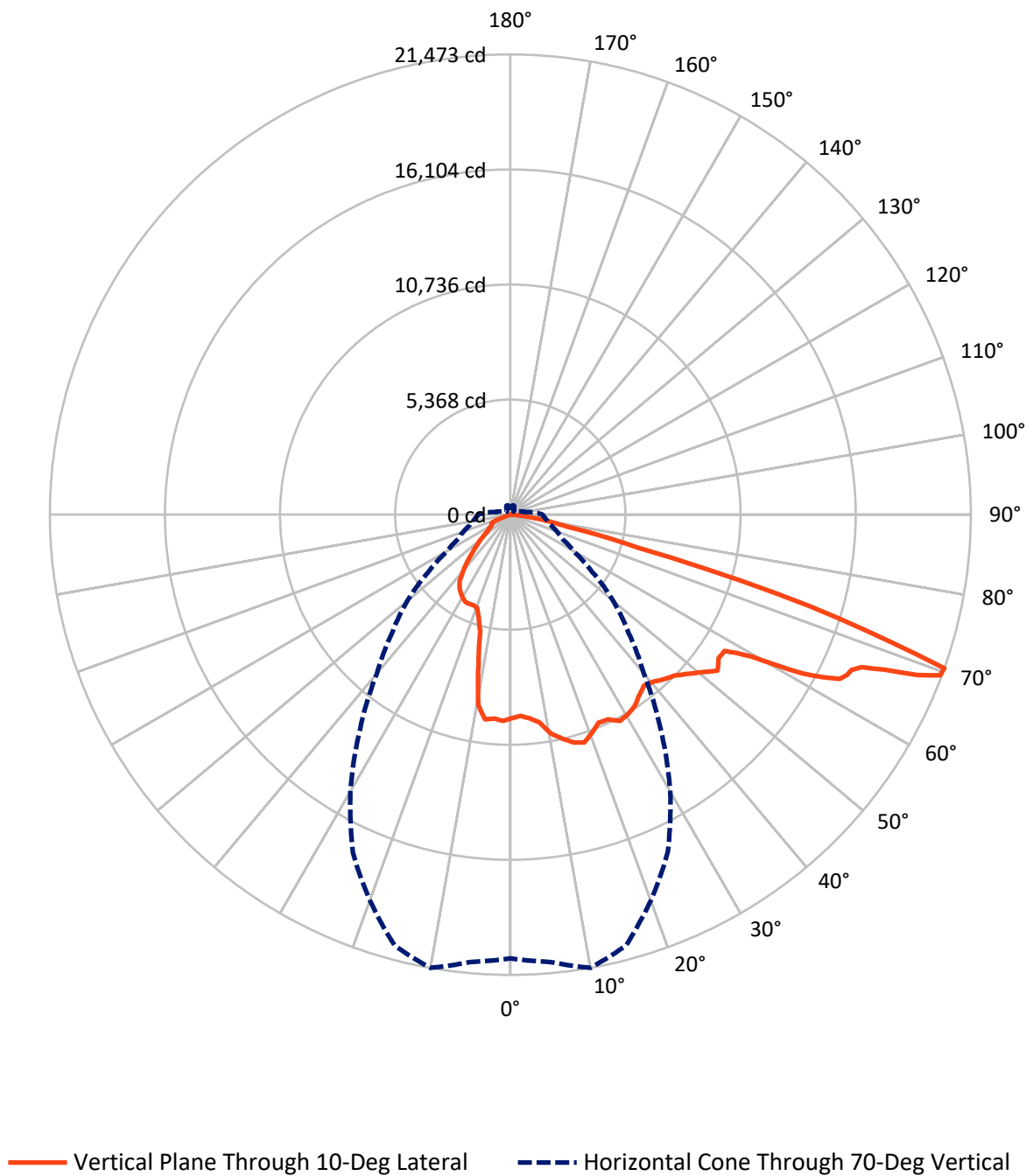
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16 fc
Type IV - Short - Full Cutoff

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Luminous Intensity Polar Plot



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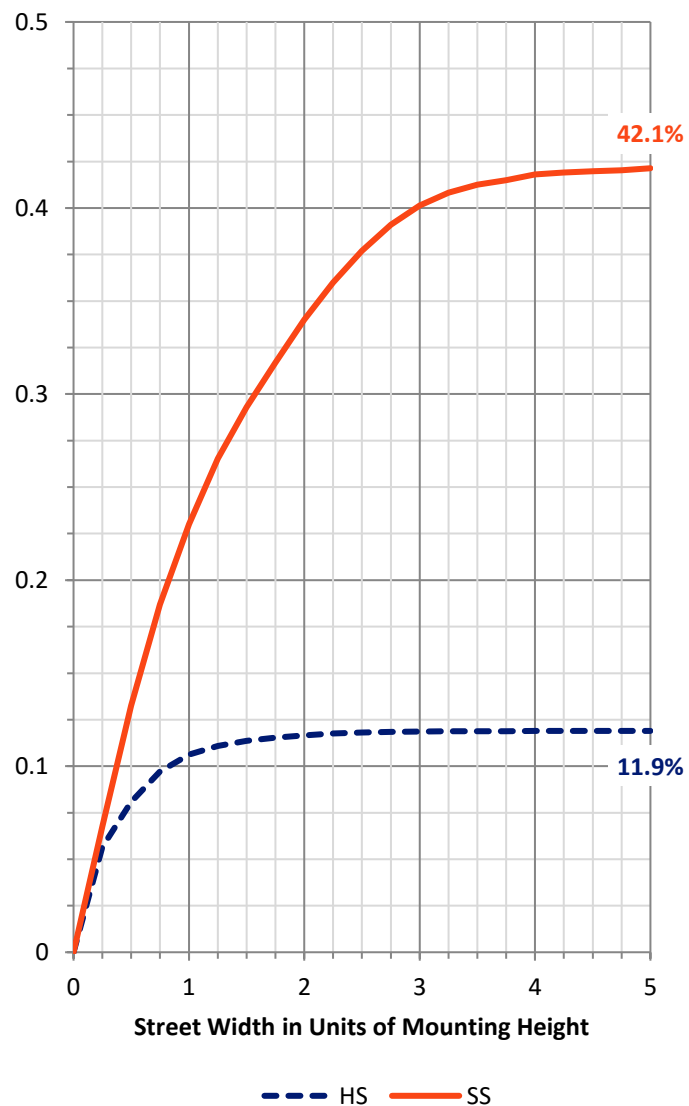
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5981.5	0.0	5981.5
	% Lamp	12.0	0.0	12.0
Street Side	Lumens	21098.7	0.0	21098.7
	% Lamp	42.2	0.0	42.2
Total	Lumens	27080.2	0.0	27080.2
	% Lamp	54.2	0.0	54.2

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	911.0	3.4	1.8
10°-20°	2489.7	9.2	5.0
20°-30°	3428.7	12.7	6.9
30°-40°	4017.2	14.8	8.0
40°-50°	4213.1	15.6	8.4
50°-60°	4244.1	15.7	8.5
60°-70°	5124.8	18.9	10.2
70°-80°	2509.6	9.3	5.0
80°-90°	141.9	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°	27080.2	100.0	54.2
0°-180°	27080.2	100.0	54.2

Coefficient of Utilization

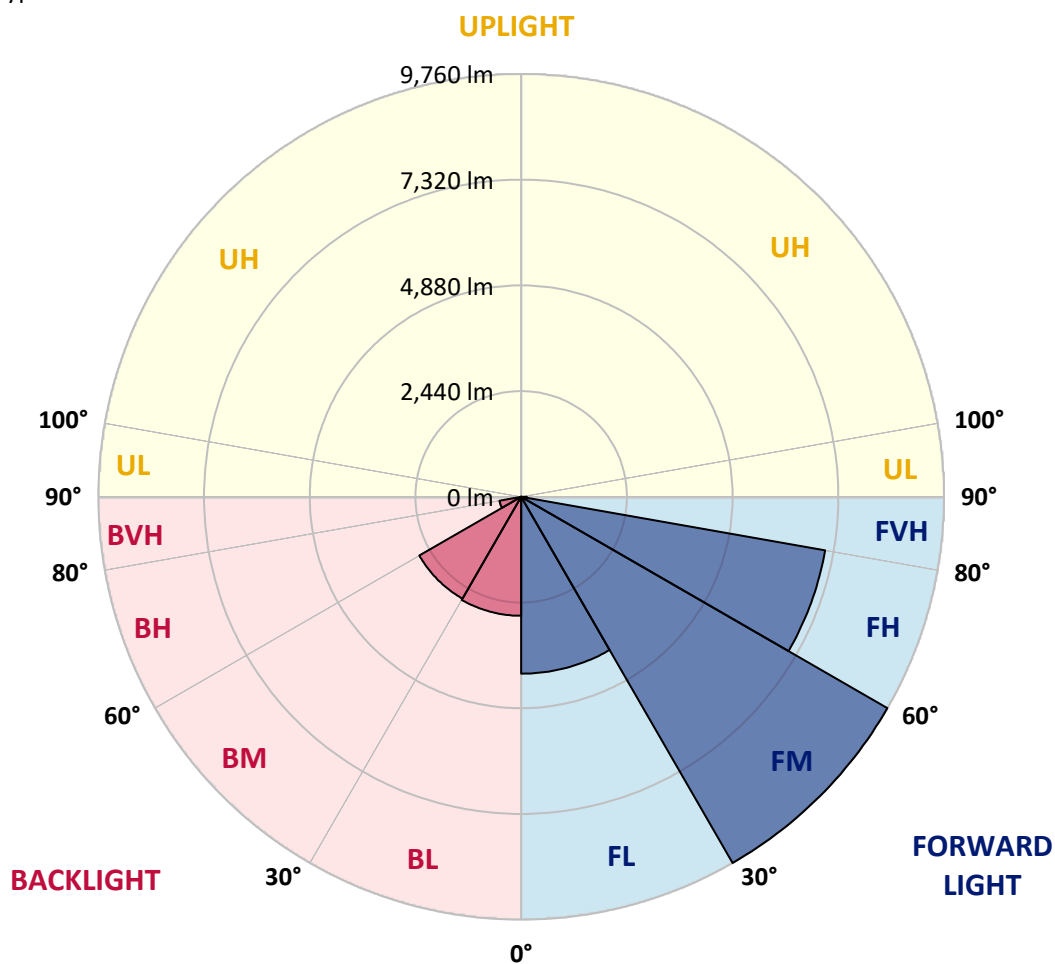


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

			Zone Rating/Lumen Limit			
Zone		Lumens	% Lamp	B	U	G
FL	(0°-30°)	4083.0	8.2			
FM	(30°-60°)	9760.1	19.5			
FH	(60°-80°)	7124.4	14.2			G3/7500
FVH	(80°-90°)	131.3	0.3			G2/225
BL	(0°-30°)	2746.5	5.5	B4/5000		
BM	(30°-60°)	2714.3	5.4	B3/5000		
BH	(60°-80°)	510.1	1.0	B2/1000		G2/1000
BVH	(80°-90°)	10.6	0.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	
Trapped Light		22919.8	45.8			

BUG Rating: B4-U0-G3
Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	9492.0	9492.0	9492.0	9492.0	9492.0	9492.0	9492.0	9492.0	9492.0	9492.0	9492.0
2.5°	9366.0	9397.5	9397.5	9387.0	9376.5	9376.5	9399.6	9429.0	9418.5	9439.5	9443.7
5°	9534.0	9571.8	9555.0	9555.0	9502.5	9481.5	9498.3	9492.0	9450.0	9450.0	9418.5
7.5°	9828.0	9817.5	9786.0	9828.0	9754.5	9712.5	9702.0	9687.3	9624.3	9576.0	9534.0
10°	10485.3	10483.2	10384.5	10342.5	10216.5	10111.5	10017.0	9964.5	9870.0	9838.5	9777.6
12.5°	10773.0	10766.7	10716.3	10678.5	10605.0	10479.0	10395.0	10311.0	10185.0	10059.0	9882.6
15°	11031.3	11025.0	11027.1	10995.6	10920.0	10741.5	10552.5	10426.5	10258.5	10132.5	9987.6
17.5°	11151.0	11193.0	11172.0	11151.0	11056.5	10920.0	10699.5	10458.0	10216.5	10048.5	9880.5
20°	10794.0	10846.5	10867.5	10941.0	10930.5	10867.5	10668.0	10426.5	10157.7	9956.1	9754.5
22.5°	10476.9	10500.0	10542.0	10602.9	10634.4	10602.9	10487.4	10290.0	10082.1	9880.5	9639.0
25°	10542.0	10573.5	10581.9	10588.2	10552.5	10472.7	10258.5	10006.5	9828.0	9702.0	9487.8
27.5°	10836.0	10875.9	10899.0	10873.8	10768.8	10521.0	10140.9	9798.6	9565.5	9439.5	9250.5
30°	10701.6	10762.5	10804.5	10947.3	10922.1	10657.5	10227.0	9781.8	9366.0	9111.9	8962.8
32.5°	10500.0	10563.0	10647.0	10867.5	11020.8	10871.7	10426.5	9872.1	9271.5	8883.0	8662.5
35°	10143.0	10174.5	10355.1	10680.6	11016.6	10941.0	10363.5	9760.8	9324.0	8893.5	8515.5
37.5°	9828.0	9922.5	10122.0	10460.1	10752.0	10647.0	10059.0	9628.5	9271.5	8977.5	8517.6
40°	10017.0	10090.5	10248.0	10518.9	10531.5	10122.0	9681.0	9513.0	9324.0	9051.0	8536.5
42.5°	10164.0	10269.0	10500.0	10668.0	10384.5	9891.0	9586.5	9502.5	9338.7	9061.5	8547.0
45°	10584.0	10573.5	10720.5	10867.5	10710.0	10227.0	9863.7	9586.5	9248.4	8975.4	8471.4
47.5°	11193.0	11025.0	11102.7	11718.0	11778.9	10962.0	10143.0	9508.8	9061.5	8767.5	8227.8
50°	11487.0	11394.6	11550.0	12243.0	11970.0	11172.0	10178.7	9429.0	8935.5	8578.5	7917.0
52.5°	11940.6	11980.5	12096.0	11959.5	11249.7	10479.0	9933.0	9355.5	8799.0	8418.9	7700.7
55°	11844.0	11886.0	11791.5	11371.5	10584.0	10038.0	9555.0	9107.7	8620.5	8127.0	7560.0
57°	12180.0	12127.5	11844.0	11224.5	10542.0	9922.5	9513.0	8946.0	8568.0	8076.6	7591.5
58°	12768.0	12757.5	12354.3	11539.5	10752.0	10017.0	9538.2	8904.0	8547.0	8137.5	7591.5
59°	13828.5	13492.5	13053.6	12253.5	11256.0	10363.5	9639.0	8967.0	8538.6	8232.0	7612.5
60°	15477.0	15057.0	14265.3	13240.5	12012.0	10857.0	9945.6	9130.8	8589.0	8295.0	7665.0
61°	16716.0	15993.6	15550.5	14248.5	12894.0	11518.5	10500.0	9376.5	8683.5	8326.5	7696.5
62°	17787.0	17367.0	16434.6	14981.4	13776.0	12369.0	11266.5	9828.0	8820.0	8305.5	7654.5
63°	18459.0	17978.1	17165.4	15750.0	14437.5	13146.0	11938.5	10416.0	8988.0	8253.0	7560.0
64°	18585.0	18102.0	17394.3	16338.0	15046.5	13975.5	12894.0	11287.5	9366.0	8253.0	7360.5
65°	18425.4	18070.5	17482.5	16621.5	15519.0	14763.0	13986.0	12240.9	9830.1	8242.5	7140.0
66°	18555.6	18238.5	17860.5	16989.0	16140.6	15554.7	14920.5	12925.5	10311.0	8274.0	7024.5
67°	19299.0	19026.0	18900.0	17818.5	16760.1	16100.7	15487.5	13587.0	10794.0	8322.3	6888.0
68°	20433.0	20342.7	20397.3	18952.5	17598.0	16558.5	15554.7	13671.0	10968.3	8334.9	6804.0
69°	21147.0	21157.5	21399.0	20328.0	18669.0	17041.5	15424.5	13143.9	10657.5	8267.7	6629.7
70°	20706.0	20947.5	21472.5	20821.5	19152.0	17377.5	14910.0	12222.0	9681.0	7801.5	6274.8
72.5°	12999.0	13444.2	14553.0	15078.0	15027.6	14876.4	13202.7	10437.0	7434.0	6008.1	5145.0
75°	5124.0	5050.5	6138.3	6969.9	7444.5	7562.1	7339.5	5733.0	4221.0	3366.3	3045.0
77.5°	2373.0	2509.5	2698.5	2929.5	2438.1	2076.9	1505.7	1268.4	1211.7	1247.4	1278.9
80°	1682.1	1701.0	1659.0	1505.7	1270.5	911.4	659.4	501.9	506.1	552.3	550.2
82.5°	833.7	819.0	812.7	730.8	621.6	491.4	415.8	312.9	241.5	224.7	212.1
85°	304.5	300.3	268.8	224.7	216.3	207.9	228.9	228.9	170.1	115.5	88.2
87.5°	60.9	58.8	50.4	54.6	60.9	56.7	52.5	52.5	46.2	31.5	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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	9492.0	9492.0	9492.0	9492.0	9492.0	9492.0	9492.0	9492.0	9492.0	9492.0	9492.0
2.5°	9422.7	9439.5	9439.5	9460.5	9443.7	9439.5	9439.5	9471.0	9481.5	9492.0	9502.5
5°	9384.9	9376.5	9345.0	9370.2	9345.0	9366.0	9376.5	9429.0	9450.0	9502.5	9544.5
7.5°	9450.0	9418.5	9345.0	9324.0	9292.5	9288.3	9313.5	9372.3	9439.5	9513.0	9565.5
10°	9681.0	9599.1	9492.0	9403.8	9313.5	9269.4	9271.5	9342.9	9424.8	9523.5	9561.3
12.5°	9744.0	9639.0	9544.5	9429.0	9282.0	9193.8	9177.0	9292.5	9429.0	9523.5	9502.5
15°	9777.6	9592.8	9450.0	9366.0	9210.6	9061.5	9036.3	9156.0	9355.5	9437.4	9351.3
17.5°	9718.8	9534.0	9303.0	9198.0	9082.5	8893.5	8851.5	8983.8	9166.5	9208.5	8998.5
20°	9525.6	9345.0	9126.6	8975.4	8864.1	8757.0	8620.5	8700.3	8847.3	8801.1	8555.4
22.5°	9366.0	9135.0	8956.5	8786.4	8662.5	8523.9	8324.4	8337.0	8555.4	8421.0	8169.0
25°	9156.0	8904.0	8715.0	8610.0	8452.5	8242.5	7938.0	7919.1	8179.5	7919.1	7696.5
27.5°	8925.0	8673.0	8452.5	8347.5	8169.0	7906.5	7564.2	7549.5	7711.2	7423.5	7152.6
30°	8725.5	8505.0	8253.0	8110.2	7948.5	7644.0	7203.0	7098.0	7324.8	7016.1	6520.5
32.5°	8442.0	8274.0	8032.5	7788.9	7644.0	7331.1	6841.8	6717.9	6909.0	6573.0	5670.0
35°	8253.0	8043.0	7822.5	7507.5	7339.5	7066.5	6541.5	6316.8	6465.9	6006.0	4859.4
37.5°	8106.0	7896.0	7608.3	7310.1	7056.0	6764.1	6163.5	5890.5	5949.3	5502.0	3895.5
40°	7990.5	7665.0	7461.3	7192.5	6846.0	6489.0	5911.5	5638.5	5546.1	4926.6	3084.9
42.5°	7931.7	7455.0	7242.9	7066.5	6636.0	6201.3	5670.0	5287.8	5029.5	4258.8	2320.5
45°	7843.5	7245.0	6982.5	6846.0	6434.4	5890.5	5334.0	4830.0	4701.9	3622.5	1902.6
47.5°	7560.0	6919.5	6615.0	6562.5	6100.5	5535.6	4956.0	4525.5	4368.0	3055.5	1575.0
50°	7213.5	6541.5	6226.5	6132.0	5659.5	5208.0	4620.0	4210.5	4105.5	2431.8	1375.5
52.5°	6963.6	6268.5	5859.0	5701.5	5229.0	4899.3	4368.0	4000.5	3759.0	1940.4	1207.5
55°	6827.1	6113.1	5586.0	5187.0	4930.8	4609.5	4132.8	3885.0	3429.3	1493.1	1144.5
57°	6766.2	6008.1	5292.0	4777.5	4607.4	4221.0	3838.8	3538.5	3213.0	1289.4	1068.9
58°	6783.0	5943.0	5187.0	4630.5	4410.0	4126.5	3727.5	3423.0	3076.5	1211.7	1047.9
59°	6783.0	5869.5	5050.5	4420.5	4256.7	3958.5	3591.0	3318.0	2969.4	1163.4	1047.9
60°	6793.5	5798.1	4945.5	4294.5	4084.5	3788.4	3454.5	3200.4	2845.5	1167.6	1043.7
61°	6720.0	5649.0	4788.0	4179.0	3906.0	3683.4	3328.5	3095.4	2717.4	1163.4	1039.5
62°	6594.0	5502.0	4607.4	4044.6	3717.0	3536.4	3202.5	2982.0	2551.5	1171.8	1026.9
63°	6405.0	5239.5	4389.0	3874.5	3496.5	3370.5	3097.5	2839.2	2373.0	1146.6	1008.0
64°	6174.0	5008.5	4158.0	3696.0	3269.7	3160.5	2908.5	2698.5	2173.5	1092.0	984.9
65°	6006.0	4832.1	3981.6	3454.5	3055.5	2877.0	2698.5	2520.0	2009.7	1024.8	953.4
66°	5796.0	4672.5	3708.6	3265.5	2835.0	2614.5	2469.6	2301.6	1852.2	949.2	903.0
67°	5565.0	4399.5	3538.5	3024.0	2583.0	2373.0	2293.2	2123.1	1635.9	884.1	827.4
68°	5407.5	4137.0	3276.0	2803.5	2360.4	2165.1	2091.6	1942.5	1442.7	804.3	732.9
69°	5029.5	3763.2	2982.0	2551.5	2171.4	1969.8	1856.4	1698.9	1253.7	758.1	644.7
70°	4676.7	3410.4	2677.5	2322.6	1984.5	1764.0	1606.5	1495.2	1108.8	682.5	575.4
72.5°	3584.7	2520.0	1988.7	1722.0	1482.6	1226.4	1085.7	957.6	730.8	560.7	451.5
75°	2534.7	1682.1	1169.7	1134.0	1071.0	972.3	837.9	714.0	567.0	455.7	342.3
77.5°	1365.0	1327.2	938.7	816.9	762.3	705.6	617.4	504.0	390.6	310.8	224.7
80°	573.3	682.5	686.7	546.0	491.4	455.7	403.2	291.9	241.5	180.6	132.3
82.5°	205.8	199.5	222.6	228.9	214.2	184.8	174.3	136.5	107.1	86.1	69.3
85°	73.5	60.9	65.1	60.9	71.4	67.2	52.5	46.2	42.0	42.0	25.2
87.5°	12.6	10.5	12.6	8.4	8.4	16.8	16.8	16.8	10.5	10.5	4.2
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	9492.0	9492.0	9492.0	9492.0	9492.0	9492.0	9492.0	9492.0	9492.0	9492.0	9492.0
2.5°	9513.0	9544.5	9555.0	9586.5	9576.0	9586.5	9594.9	9628.5	9618.0	9607.5	9618.0
5°	9565.5	9634.8	9628.5	9641.1	9636.9	9649.5	9607.5	9607.5	9607.5	9576.0	9544.5
7.5°	9588.6	9597.0	9565.5	9534.0	9502.5	9492.0	9513.0	9536.1	9565.5	9571.8	9586.5
10°	9523.5	9481.5	9450.0	9450.0	9492.0	9515.1	9544.5	9492.0	9355.5	9303.0	9120.3
12.5°	9418.5	9355.5	9366.0	9387.0	9296.7	9082.5	8778.0	8463.0	8274.0	7812.0	7635.6
15°	9183.3	9166.5	9084.6	8809.5	8465.1	7927.5	7270.2	6911.1	6310.5	6132.0	5806.5
17.5°	8883.0	8715.0	8347.5	7772.1	7024.5	6226.5	5848.5	5470.5	5275.2	5126.1	5061.0
20°	8412.6	8064.0	7245.0	6279.0	5707.8	5239.5	4987.5	4819.5	4620.0	4557.0	4546.5
22.5°	7883.4	7024.5	5961.9	5124.0	4756.5	4649.4	4462.5	4347.0	4294.5	4292.4	4344.9
25°	7070.7	5985.0	4840.5	4357.5	4300.8	4179.0	4107.6	4042.5	4063.5	4162.2	4294.5
27.5°	6132.0	4756.5	3979.5	3885.0	3853.5	3784.2	3748.5	3792.6	3969.0	4168.5	4326.0
30°	5140.8	3895.5	3559.5	3486.0	3433.5	3412.5	3517.5	3759.0	4063.5	4263.0	4357.5
32.5°	4042.5	3223.5	3055.5	3118.5	3076.5	3141.6	3471.3	3855.6	4084.5	4126.5	4168.5
35°	3139.5	2803.5	2799.3	2761.5	2740.5	3055.5	3551.1	3717.0	3612.0	3748.5	3948.0
37.5°	2572.5	2467.5	2467.5	2358.3	2467.5	3030.3	3087.0	3003.0	3108.0	3345.3	3643.5
40°	2205.0	2316.3	2190.3	2051.7	2303.7	2446.5	2394.0	2419.2	2614.5	2929.5	3192.0
42.5°	2083.2	2100.0	1890.0	1837.5	1919.4	1906.8	1902.6	2081.1	2270.1	2520.0	2740.5
45°	1986.6	1913.1	1640.1	1648.5	1512.0	1530.9	1646.4	1789.2	1967.7	2131.5	2299.5
47.5°	1701.0	1470.0	1509.9	1360.8	1251.6	1310.4	1381.8	1507.8	1663.2	1877.4	2009.7
50°	1325.1	1333.5	1383.9	1102.5	1043.7	1146.6	1213.8	1228.5	1402.8	1610.7	1734.6
52.5°	1236.9	1289.4	1117.2	921.9	919.8	1026.9	1081.5	1081.5	1186.5	1383.9	1474.2
55°	1108.8	1098.3	875.7	768.6	821.1	928.2	993.3	963.9	1016.4	1085.7	1134.0
57°	1018.5	932.4	764.4	690.9	739.2	825.3	913.5	875.7	825.3	1003.8	1098.3
58°	989.1	873.6	730.8	669.9	680.4	770.7	869.4	766.5	823.2	997.5	1085.7
59°	974.4	846.3	688.8	640.5	619.5	726.6	808.5	766.5	823.2	984.9	1068.9
60°	961.8	827.4	659.4	613.2	577.5	651.0	739.2	762.3	814.8	966.0	1056.3
61°	949.2	804.3	638.4	567.0	533.4	581.7	714.0	751.8	798.0	928.2	1010.1
62°	940.8	764.4	619.5	522.9	489.3	529.2	674.1	741.3	781.2	884.1	984.9
63°	932.4	724.5	592.2	470.4	428.4	483.0	636.3	730.8	747.6	848.4	949.2
64°	884.1	657.3	535.5	426.3	371.7	453.6	596.4	703.5	716.1	804.3	913.5
65°	825.3	600.6	501.9	386.4	340.2	394.8	567.0	657.3	678.3	768.6	896.7
66°	739.2	550.2	432.6	348.6	331.8	359.1	514.5	579.6	625.8	726.6	854.7
67°	636.3	489.3	375.9	310.8	304.5	327.6	447.3	506.1	558.6	678.3	793.8
68°	598.5	443.1	338.1	285.6	277.2	291.9	375.9	438.9	504.0	621.6	728.7
69°	518.7	378.0	294.0	258.3	245.7	252.0	310.8	365.4	424.2	537.6	619.5
70°	443.1	340.2	262.5	237.3	224.7	226.8	262.5	302.4	371.7	430.5	447.3
72.5°	327.6	233.1	201.6	180.6	170.1	165.9	180.6	195.3	184.8	155.4	140.7
75°	226.8	161.7	138.6	126.0	109.2	107.1	107.1	100.8	90.3	81.9	75.6
77.5°	147.0	105.0	88.2	73.5	63.0	65.1	60.9	52.5	48.3	39.9	39.9
80°	92.4	67.2	50.4	42.0	37.8	39.9	33.6	27.3	27.3	18.9	14.7
82.5°	46.2	31.5	25.2	21.0	16.8	16.8	12.6	10.5	6.3	4.2	4.2
85°	12.6	8.4	6.3	4.2	2.1	2.1	2.1	0.0	0.0	0.0	0.0
87.5°	2.1	4.2	4.2	4.2	4.2	4.2	4.2	6.3	2.1	6.3	4.2
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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CATALOG NUMBER: TRU40SXX4F

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	9492.0	9492.0	9492.0	9492.0
2.5°	9620.1	9628.5	9639.0	9660.0
5°	9544.5	9544.5	9544.5	9538.2
7.5°	9603.3	9618.0	9639.0	9639.0
10°	9114.0	9017.4	8967.0	9051.0
12.5°	7492.8	7140.0	7035.0	6993.0
15°	5701.5	5617.5	5575.5	5523.0
17.5°	5019.0	5029.5	5012.7	5040.0
20°	4588.5	4630.5	4672.5	4704.0
22.5°	4441.5	4567.5	4672.5	4725.0
25°	4420.5	4578.0	4729.2	4788.0
27.5°	4452.0	4588.5	4735.5	4809.0
30°	4420.5	4483.5	4546.5	4599.0
32.5°	4235.7	4336.5	4401.6	4473.0
35°	4074.0	4170.6	4200.0	4242.0
37.5°	3822.0	3927.0	4000.5	4008.9
40°	3406.2	3486.0	3633.0	3696.0
42.5°	2919.0	3055.5	3124.8	3213.0
45°	2457.0	2583.0	2646.0	2646.0
47.5°	2142.0	2173.5	2158.8	2163.0
50°	1833.3	1879.5	1908.9	1919.4
52.5°	1522.5	1507.8	1404.9	1436.4
55°	1201.2	1287.3	1360.8	1404.9
57°	1144.5	1190.7	1268.4	1323.0
58°	1104.6	1157.1	1192.8	1234.8
59°	1071.0	1081.5	1075.2	1098.3
60°	1026.9	1020.6	1039.5	1029.0
61°	1010.1	993.3	982.8	993.3
62°	999.6	982.8	972.3	970.2
63°	987.0	989.1	978.6	974.4
64°	968.1	984.9	993.3	997.5
65°	940.8	976.5	989.1	1003.8
66°	898.8	938.7	961.8	961.8
67°	856.8	875.7	898.8	884.1
68°	770.7	777.0	814.8	774.9
69°	657.3	604.8	632.1	659.4
70°	436.8	378.0	319.2	338.1
72.5°	134.4	147.0	153.3	153.3
75°	79.8	79.8	84.0	92.4
77.5°	39.9	42.0	42.0	42.0
80°	16.8	16.8	16.8	16.8
82.5°	4.2	4.2	6.3	6.3
85°	0.0	0.0	0.0	0.0
87.5°	2.1	2.1	0.0	2.1
90°	0.0	0.0	0.0	0.0

(END OF REPORT)