

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: 768375

Luminaire Tested: **TRU40SXX5F**

Issue Date: 3/3/2020

Test Information

Test Method: LM-46-04
Report Number: 768375
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: TRU40SXX5F
Description: ARCHITECTURAL AREA LUMINAIRE - TYPE V
Light Source: 400 WATT HPS CLEAR E-18
Ballast/Driver: -

Summary

Lumens per Lamp: 50000 (1 lamp)
Luminaire Lumens: 30272.5 lumens
Efficiency: 60.5%
Efficacy: 65.1 lumens/watt
Luminous Opening: Rectangular (W 1.08' x L: 1.08' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B4 - U0 - G2

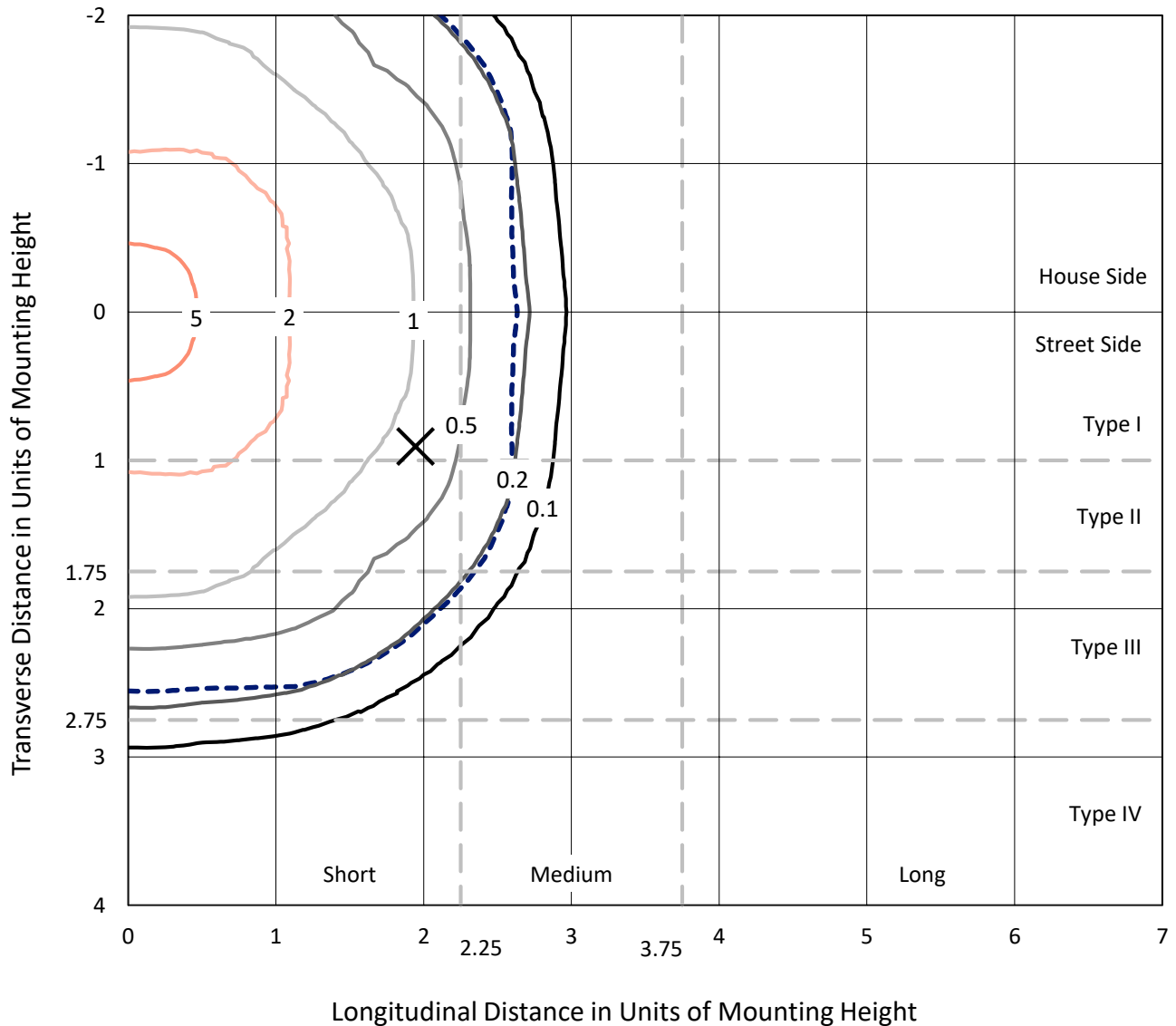
Input Watts (W): 465
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

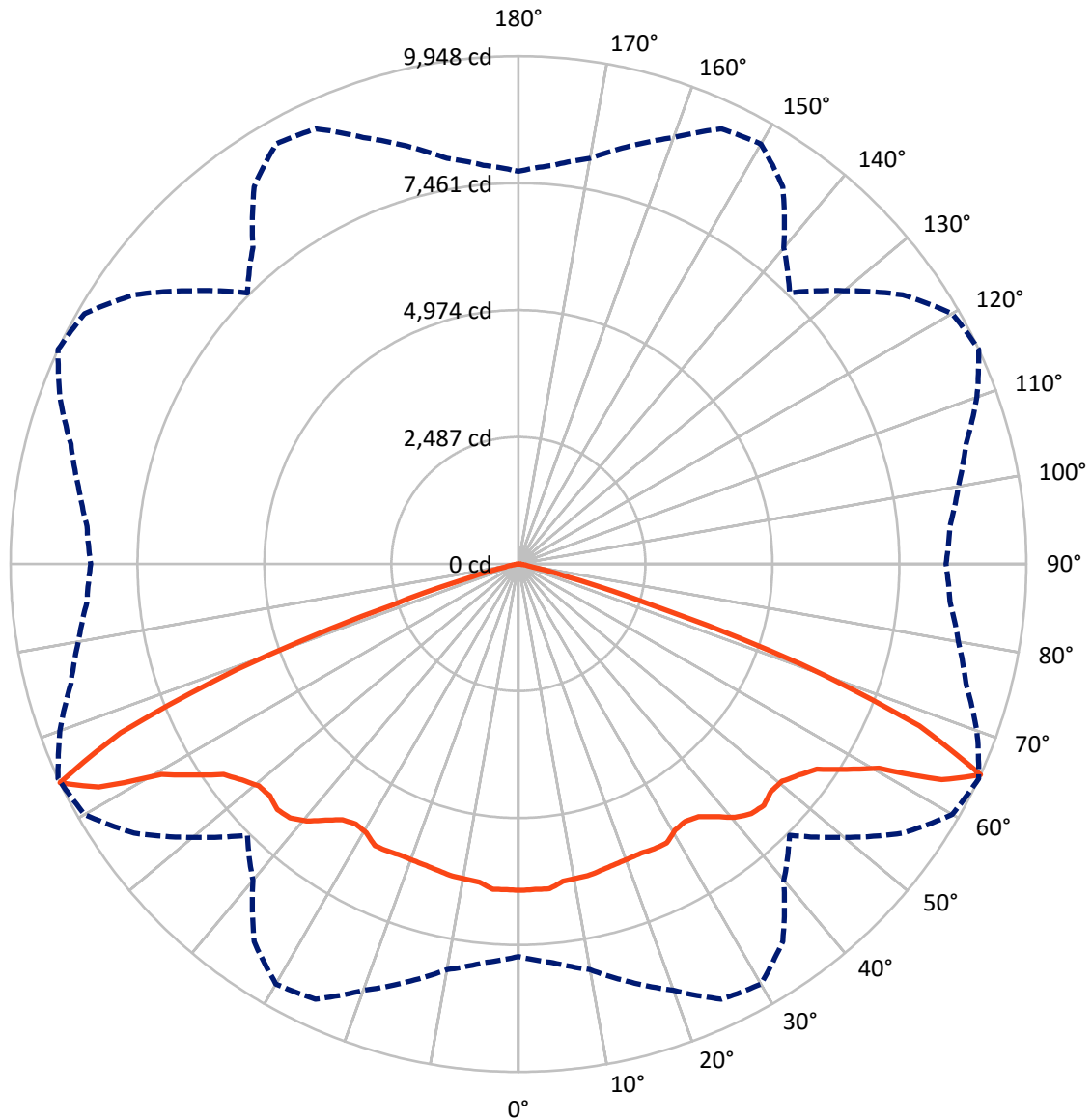
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.1 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical



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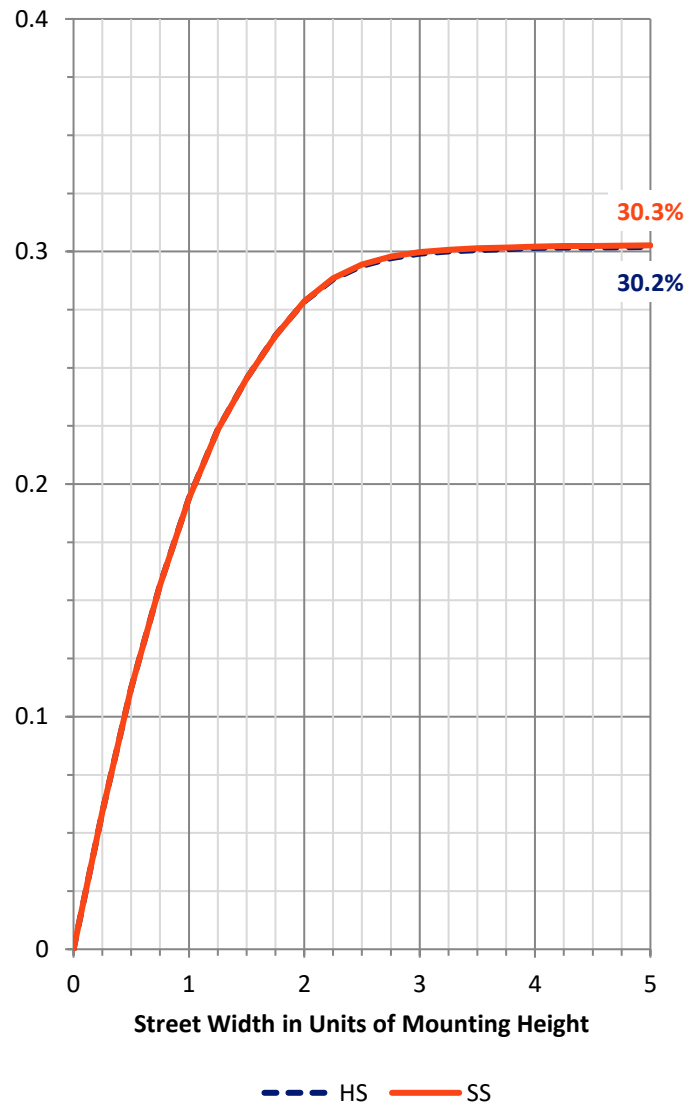
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15136.3	0.0	15136.3
	% Lamp	30.3	0.0	30.3
Street Side	Lumens	15136.3	0.0	15136.3
	% Lamp	30.3	0.0	30.3
Total	Lumens	30272.5	0.0	30272.5
	% Lamp	60.5	0.0	60.5

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	602.4	2.0	1.2
10°-20°	1751.0	5.8	3.5
20°-30°	2843.0	9.4	5.7
30°-40°	3891.9	12.9	7.8
40°-50°	4961.0	16.4	9.9
50°-60°	6533.8	21.6	13.1
60°-70°	7994.1	26.4	16.0
70°-80°	1632.0	5.4	3.3
80°-90°	63.4	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°	30272.5	100.0	60.5
0°-180°	30272.5	100.0	60.5

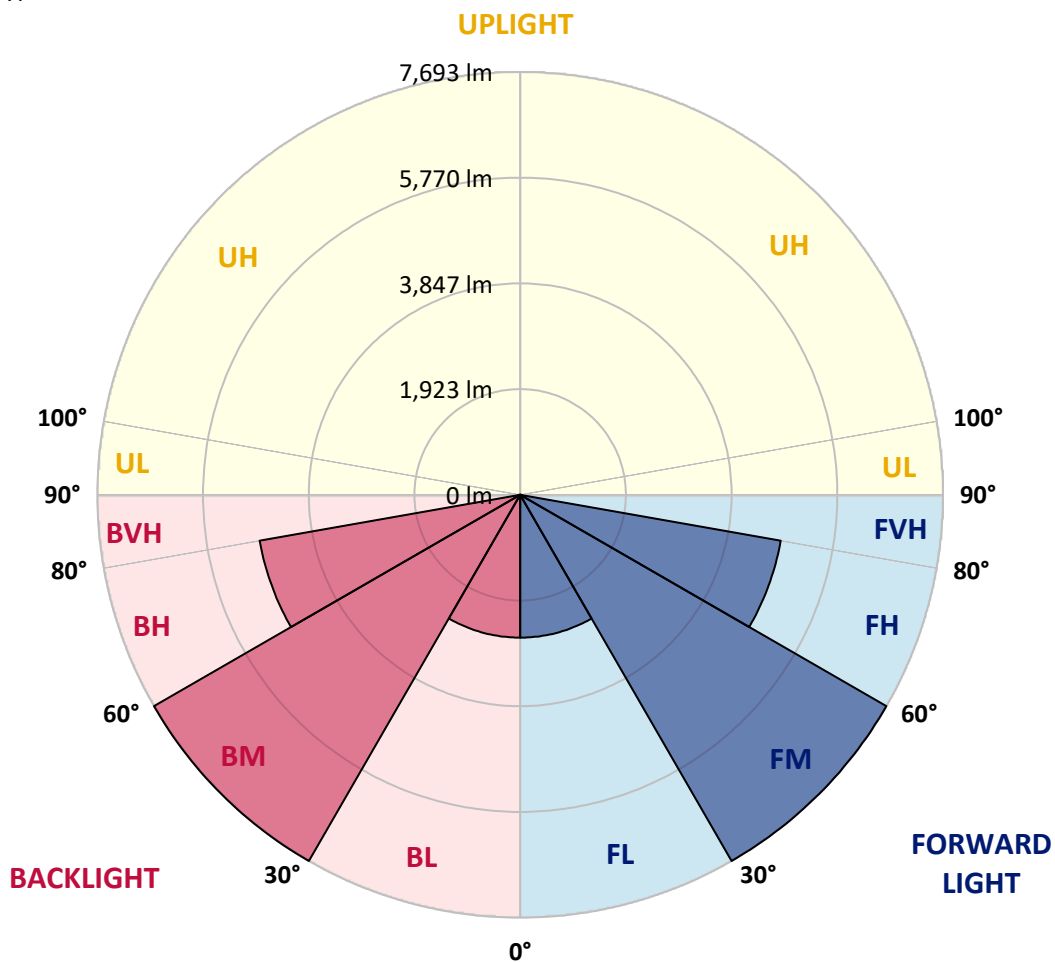


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2598.2	5.2			
FM	(30°-60°)	7693.3	15.4			
FH	(60°-80°)	4813.1	9.6			G2/5000
FVH	(80°-90°)	31.7	0.1			G1/100
BL	(0°-30°)	2598.2	5.2	B4/5000		
BM	(30°-60°)	7693.3	15.4	B4/8500		
BH	(60°-80°)	4813.1	9.6	B4/5000		G2/5000
BVH	(80°-90°)	31.7	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	
Trapped Light		19727.5	39.5			

BUG Rating: B4-U0-G2
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	6390.7	6390.7	6390.7	6390.7	6390.7	6390.7	6390.7	6390.7	6390.7	6390.7	6390.7
2.5°	6408.1	6374.5	6367.0	6359.5	6365.8	6358.3	6383.2	6380.7	6378.2	6379.5	6385.7
5°	6400.6	6364.5	6360.8	6360.8	6367.0	6350.8	6379.5	6377.0	6370.7	6383.2	6374.5
7.5°	6362.0	6317.2	6292.3	6263.6	6253.7	6240.0	6267.4	6267.4	6263.6	6264.9	6269.8
10°	6197.6	6171.5	6185.2	6208.8	6227.5	6212.6	6242.4	6244.9	6244.9	6254.9	6254.9
12.5°	6131.6	6104.2	6117.9	6146.5	6195.1	6215.0	6238.7	6248.7	6246.2	6252.4	6258.6
15°	6090.5	6079.3	6090.5	6115.4	6149.0	6190.1	6236.2	6236.2	6240.0	6240.0	6252.4
17.5°	6109.2	6076.8	6065.6	6086.8	6124.1	6165.2	6233.7	6240.0	6233.7	6246.2	6254.9
20°	6103.0	6079.3	6068.1	6071.8	6110.4	6146.5	6225.0	6243.7	6246.2	6254.9	6261.1
22.5°	6090.5	6053.1	6049.4	6055.6	6076.8	6124.1	6223.8	6258.6	6264.9	6273.6	6277.3
25°	6040.7	6008.3	6012.0	6035.7	6071.8	6119.1	6232.5	6283.5	6292.3	6296.0	6296.0
27.5°	5978.4	5965.9	5980.9	6009.5	6061.8	6127.9	6252.4	6308.5	6302.2	6296.0	6296.0
30°	5954.7	5943.5	5968.4	5993.3	6036.9	6009.5	6120.4	6190.1	6190.1	6183.9	6190.1
32.5°	6022.0	6008.3	6028.2	5979.6	5980.9	6004.6	6084.3	6146.5	6152.8	6155.3	6146.5
35°	6198.9	6196.4	6165.2	6175.2	6176.4	6134.1	6104.2	6109.2	6093.0	6096.7	6106.7
37.5°	6352.0	6372.0	6448.0	6497.8	6489.1	6348.3	6248.7	6180.2	6125.4	6131.6	6177.7
40°	6377.0	6448.0	6618.6	6735.7	6775.5	6672.1	6482.8	6254.9	6078.0	6066.8	6155.3
42.5°	6208.8	6269.8	6528.9	6799.2	6897.6	6812.9	6619.8	6333.4	6086.8	6030.7	6166.5
45°	5847.6	5962.2	6267.4	6612.4	6844.0	6845.3	6700.8	6423.0	6130.4	6038.2	6196.4
47.5°	5623.4	5691.9	5963.5	6328.4	6678.4	6781.7	6713.2	6522.7	6312.2	6248.7	6373.2
50°	5523.8	5567.4	5710.6	6010.8	6398.1	6712.0	6979.8	6949.9	6846.5	6814.1	6851.5
52.5°	5704.4	5638.4	5617.2	5821.5	6227.5	6688.3	7120.5	7494.2	7448.1	7500.4	7603.8
55°	6460.4	6282.3	6065.6	5967.2	6117.9	6651.0	7516.6	8251.4	8606.4	8617.6	8770.8
57.5°	7989.9	7879.0	7566.4	6933.7	6784.2	6983.5	7945.0	8889.1	9511.9	9804.6	9646.4
60°	9397.3	9434.7	9138.2	8745.9	8272.6	7955.0	8104.5	8646.3	9266.5	9646.4	9514.4
62.5°	9297.7	9312.6	9487.0	9630.2	9590.4	9434.7	8948.9	8650.0	8305.0	8415.8	8636.3
65°	7691.0	7840.4	8068.3	8478.1	8889.1	9406.0	9499.4	9026.1	8090.8	7511.6	8328.7
67.5°	5965.9	6036.9	6165.2	6385.7	6933.7	7719.6	8266.4	8555.3	8105.7	7610.0	8138.1
70°	3593.3	3691.7	3697.9	4116.4	4498.7	5140.2	5495.1	5806.5	5972.2	5924.8	6117.9
72.5°	1626.6	1669.0	1696.4	1906.9	2271.8	2418.8	2821.1	3009.1	3182.3	3377.8	3360.4
75°	717.4	767.2	744.8	844.4	878.1	895.5	972.7	1167.0	1199.4	1140.9	1241.8
77.5°	285.2	295.2	267.8	265.3	267.8	255.3	266.5	292.7	275.3	285.2	318.8
80°	170.6	166.9	163.2	156.9	160.7	155.7	161.9	170.6	166.9	160.7	175.6
82.5°	77.2	84.7	78.5	78.5	79.7	67.3	76.0	76.0	69.7	73.5	88.4
85°	43.6	43.6	43.6	43.6	42.3	42.3	43.6	41.1	44.8	43.6	43.6
87.5°	31.1	31.1	31.1	29.9	29.9	28.6	27.4	27.4	27.4	28.6	29.9
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	6390.7	6390.7	6390.7	6390.7	6390.7	6390.7	6390.7	6390.7	6390.7	6390.7	6390.7
2.5°	6383.2	6386.9	6380.7	6391.9	6391.9	6398.1	6395.6	6386.9	6395.6	6398.1	6391.9
5°	6377.0	6389.4	6389.4	6391.9	6395.6	6398.1	6401.9	6401.9	6401.9	6398.1	6395.6
7.5°	6267.4	6264.9	6276.1	6292.3	6304.7	6315.9	6323.4	6324.6	6323.4	6315.9	6304.7
10°	6252.4	6248.7	6258.6	6267.4	6237.5	6205.1	6180.2	6165.2	6180.2	6205.1	6237.5
12.5°	6251.2	6259.9	6248.7	6221.3	6164.0	6134.1	6120.4	6103.0	6120.4	6134.1	6164.0
15°	6240.0	6242.4	6208.8	6164.0	6127.9	6109.2	6096.7	6085.5	6096.7	6109.2	6127.9
17.5°	6248.7	6231.2	6177.7	6140.3	6109.2	6086.8	6096.7	6084.3	6096.7	6086.8	6109.2
20°	6256.1	6223.8	6160.2	6130.4	6099.2	6086.8	6080.5	6065.6	6080.5	6086.8	6099.2
22.5°	6264.9	6215.0	6152.8	6121.6	6115.4	6083.0	6084.3	6065.6	6084.3	6083.0	6115.4
25°	6283.5	6227.5	6180.2	6141.6	6105.4	6090.5	6074.3	6046.9	6074.3	6090.5	6105.4
27.5°	6298.5	6243.7	6190.1	6140.3	6093.0	6061.8	6040.7	6022.0	6040.7	6061.8	6093.0
30°	6171.5	6109.2	6046.9	6075.5	6063.1	6049.4	6046.9	6032.0	6046.9	6049.4	6063.1
32.5°	6115.4	6049.4	6005.8	6015.8	6017.0	6056.9	6090.5	6071.8	6090.5	6056.9	6017.0
35°	6085.5	6061.8	6076.8	6149.0	6146.5	6149.0	6121.6	6150.3	6121.6	6149.0	6146.5
37.5°	6201.3	6240.0	6277.3	6352.0	6385.7	6357.0	6287.3	6196.4	6287.3	6357.0	6385.7
40°	6252.4	6369.5	6526.4	6653.5	6618.6	6520.2	6401.9	6370.7	6401.9	6520.2	6618.6
42.5°	6320.9	6514.0	6688.3	6765.6	6731.9	6586.2	6398.1	6340.8	6398.1	6586.2	6731.9
45°	6404.4	6594.9	6740.6	6746.9	6566.3	6359.5	6165.2	6046.9	6165.2	6359.5	6566.3
47.5°	6535.1	6663.4	6657.2	6528.9	6282.3	5972.2	5781.6	5760.4	5781.6	5972.2	6282.3
50°	6983.5	6946.2	6690.8	6323.4	5968.4	5730.5	5601.0	5517.6	5601.0	5730.5	5968.4
52.5°	7491.7	7367.1	6868.9	6391.9	5956.0	5669.5	5543.7	5523.8	5543.7	5669.5	5956.0
55°	8356.1	7759.5	7095.6	6451.7	6093.0	5978.4	5997.1	6009.5	5997.1	5978.4	6093.0
57.5°	9085.9	8428.3	7587.6	6907.5	6684.6	6796.7	7022.1	7255.0	7022.1	6796.7	6684.6
60°	9108.3	8612.6	8116.9	7921.4	8196.6	8550.4	8626.3	8506.8	8626.3	8550.4	8196.6
62.5°	8755.9	9063.5	9306.4	9546.8	9697.5	9665.1	9577.9	9534.3	9577.9	9665.1	9697.5
65°	9191.8	9810.8	9947.8	9558.0	9076.0	8750.9	8483.1	8376.0	8483.1	8750.9	9076.0
67.5°	8627.6	8985.0	8469.4	7755.7	7104.3	6943.7	6628.6	6520.2	6628.6	6943.7	7104.3
70°	6262.4	6130.4	5868.8	4982.0	4436.5	4010.5	3898.4	4153.7	3898.4	4010.5	4436.5
72.5°	3303.1	3026.6	2590.6	2325.3	1818.4	1692.6	1629.1	1560.6	1629.1	1692.6	1818.4
75°	1147.1	1106.0	929.1	785.9	804.6	780.9	767.2	742.3	767.2	780.9	804.6
77.5°	306.4	322.6	286.5	289.0	293.9	316.4	333.8	337.5	333.8	316.4	293.9
80°	170.6	175.6	168.1	165.7	164.4	171.9	183.1	173.1	183.1	171.9	164.4
82.5°	72.2	85.9	74.7	77.2	67.3	69.7	68.5	73.5	68.5	69.7	67.3
85°	44.8	44.8	46.1	44.8	43.6	44.8	44.8	43.6	44.8	44.8	43.6
87.5°	29.9	29.9	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1
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°	6390.7	6390.7	6390.7	6390.7	6390.7	6390.7	6390.7	6390.7	6390.7	6390.7	6390.7
2.5°	6391.9	6380.7	6386.9	6383.2	6385.7	6379.5	6378.2	6380.7	6383.2	6358.3	6365.8
5°	6391.9	6389.4	6389.4	6377.0	6374.5	6383.2	6370.7	6377.0	6379.5	6350.8	6367.0
7.5°	6292.3	6276.1	6264.9	6267.4	6269.8	6264.9	6263.6	6267.4	6267.4	6240.0	6253.7
10°	6267.4	6258.6	6248.7	6252.4	6254.9	6254.9	6244.9	6244.9	6242.4	6212.6	6227.5
12.5°	6221.3	6248.7	6259.9	6251.2	6258.6	6252.4	6246.2	6248.7	6238.7	6215.0	6195.1
15°	6164.0	6208.8	6242.4	6240.0	6252.4	6240.0	6240.0	6236.2	6236.2	6190.1	6149.0
17.5°	6140.3	6177.7	6231.2	6248.7	6254.9	6246.2	6233.7	6240.0	6233.7	6165.2	6124.1
20°	6130.4	6160.2	6223.8	6256.1	6261.1	6254.9	6246.2	6243.7	6225.0	6146.5	6110.4
22.5°	6121.6	6152.8	6215.0	6264.9	6277.3	6273.6	6264.9	6258.6	6223.8	6124.1	6076.8
25°	6141.6	6180.2	6227.5	6283.5	6296.0	6296.0	6292.3	6283.5	6232.5	6119.1	6071.8
27.5°	6140.3	6190.1	6243.7	6298.5	6296.0	6296.0	6302.2	6308.5	6252.4	6127.9	6061.8
30°	6075.5	6046.9	6109.2	6171.5	6190.1	6183.9	6190.1	6190.1	6120.4	6009.5	6036.9
32.5°	6015.8	6005.8	6049.4	6115.4	6146.5	6155.3	6152.8	6146.5	6084.3	6004.6	5980.9
35°	6149.0	6076.8	6061.8	6085.5	6106.7	6096.7	6093.0	6109.2	6104.2	6134.1	6176.4
37.5°	6352.0	6277.3	6240.0	6201.3	6177.7	6131.6	6125.4	6180.2	6248.7	6348.3	6489.1
40°	6653.5	6526.4	6369.5	6252.4	6155.3	6066.8	6078.0	6254.9	6482.8	6672.1	6775.5
42.5°	6765.6	6688.3	6514.0	6320.9	6166.5	6030.7	6086.8	6333.4	6619.8	6812.9	6897.6
45°	6746.9	6740.6	6594.9	6404.4	6196.4	6038.2	6130.4	6423.0	6700.8	6845.3	6844.0
47.5°	6528.9	6657.2	6663.4	6535.1	6373.2	6248.7	6312.2	6522.7	6713.2	6781.7	6678.4
50°	6323.4	6690.8	6946.2	6983.5	6851.5	6814.1	6846.5	6949.9	6979.8	6712.0	6398.1
52.5°	6391.9	6868.9	7367.1	7491.7	7603.8	7500.4	7448.1	7494.2	7120.5	6688.3	6227.5
55°	6451.7	7095.6	7759.5	8356.1	8770.8	8617.6	8606.4	8251.4	7516.6	6651.0	6117.9
57.5°	6907.5	7587.6	8428.3	9085.9	9646.4	9804.6	9511.9	8889.1	7945.0	6983.5	6784.2
60°	7921.4	8116.9	8612.6	9108.3	9514.4	9646.4	9266.5	8646.3	8104.5	7955.0	8272.6
62.5°	9546.8	9306.4	9063.5	8755.9	8636.3	8415.8	8305.0	8650.0	8948.9	9434.7	9590.4
65°	9558.0	9947.8	9810.8	9191.8	8328.7	7511.6	8090.8	9026.1	9499.4	9406.0	8889.1
67.5°	7755.7	8469.4	8985.0	8627.6	8138.1	7610.0	8105.7	8555.3	8266.4	7719.6	6933.7
70°	4982.0	5868.8	6130.4	6262.4	6117.9	5924.8	5972.2	5806.5	5495.1	5140.2	4498.7
72.5°	2325.3	2590.6	3026.6	3303.1	3360.4	3377.8	3182.3	3009.1	2821.1	2418.8	2271.8
75°	785.9	929.1	1106.0	1147.1	1241.8	1140.9	1199.4	1167.0	972.7	895.5	878.1
77.5°	289.0	286.5	322.6	306.4	318.8	285.2	275.3	292.7	266.5	255.3	267.8
80°	165.7	168.1	175.6	170.6	175.6	160.7	166.9	170.6	161.9	155.7	160.7
82.5°	77.2	74.7	85.9	72.2	88.4	73.5	69.7	76.0	76.0	67.3	79.7
85°	44.8	46.1	44.8	44.8	43.6	43.6	44.8	41.1	43.6	42.3	42.3
87.5°	31.1	31.1	29.9	29.9	29.9	28.6	27.4	27.4	27.4	28.6	29.9
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):

	165°	170°	175°	180°
0°	6390.7	6390.7	6390.7	6390.7
2.5°	6359.5	6367.0	6374.5	6408.1
5°	6360.8	6360.8	6364.5	6400.6
7.5°	6263.6	6292.3	6317.2	6362.0
10°	6208.8	6185.2	6171.5	6197.6
12.5°	6146.5	6117.9	6104.2	6131.6
15°	6115.4	6090.5	6079.3	6090.5
17.5°	6086.8	6065.6	6076.8	6109.2
20°	6071.8	6068.1	6079.3	6103.0
22.5°	6055.6	6049.4	6053.1	6090.5
25°	6035.7	6012.0	6008.3	6040.7
27.5°	6009.5	5980.9	5965.9	5978.4
30°	5993.3	5968.4	5943.5	5954.7
32.5°	5979.6	6028.2	6008.3	6022.0
35°	6175.2	6165.2	6196.4	6198.9
37.5°	6497.8	6448.0	6372.0	6352.0
40°	6735.7	6618.6	6448.0	6377.0
42.5°	6799.2	6528.9	6269.8	6208.8
45°	6612.4	6267.4	5962.2	5847.6
47.5°	6328.4	5963.5	5691.9	5623.4
50°	6010.8	5710.6	5567.4	5523.8
52.5°	5821.5	5617.2	5638.4	5704.4
55°	5967.2	6065.6	6282.3	6460.4
57.5°	6933.7	7566.4	7879.0	7989.9
60°	8745.9	9138.2	9434.7	9397.3
62.5°	9630.2	9487.0	9312.6	9297.7
65°	8478.1	8068.3	7840.4	7691.0
67.5°	6385.7	6165.2	6036.9	5965.9
70°	4116.4	3697.9	3691.7	3593.3
72.5°	1906.9	1696.4	1669.0	1626.6
75°	844.4	744.8	767.2	717.4
77.5°	265.3	267.8	295.2	285.2
80°	156.9	163.2	166.9	170.6
82.5°	78.5	78.5	84.7	77.2
85°	43.6	43.6	43.6	43.6
87.5°	29.9	31.1	31.1	31.1
90°	0.0	0.0	0.0	0.0

(END OF REPORT)