

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: P478105

Luminaire Tested: **IFLD-L-SA7C-730-U-T4FT**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478105  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7C-730-U-T4FT  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens  
Light Source: (112) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

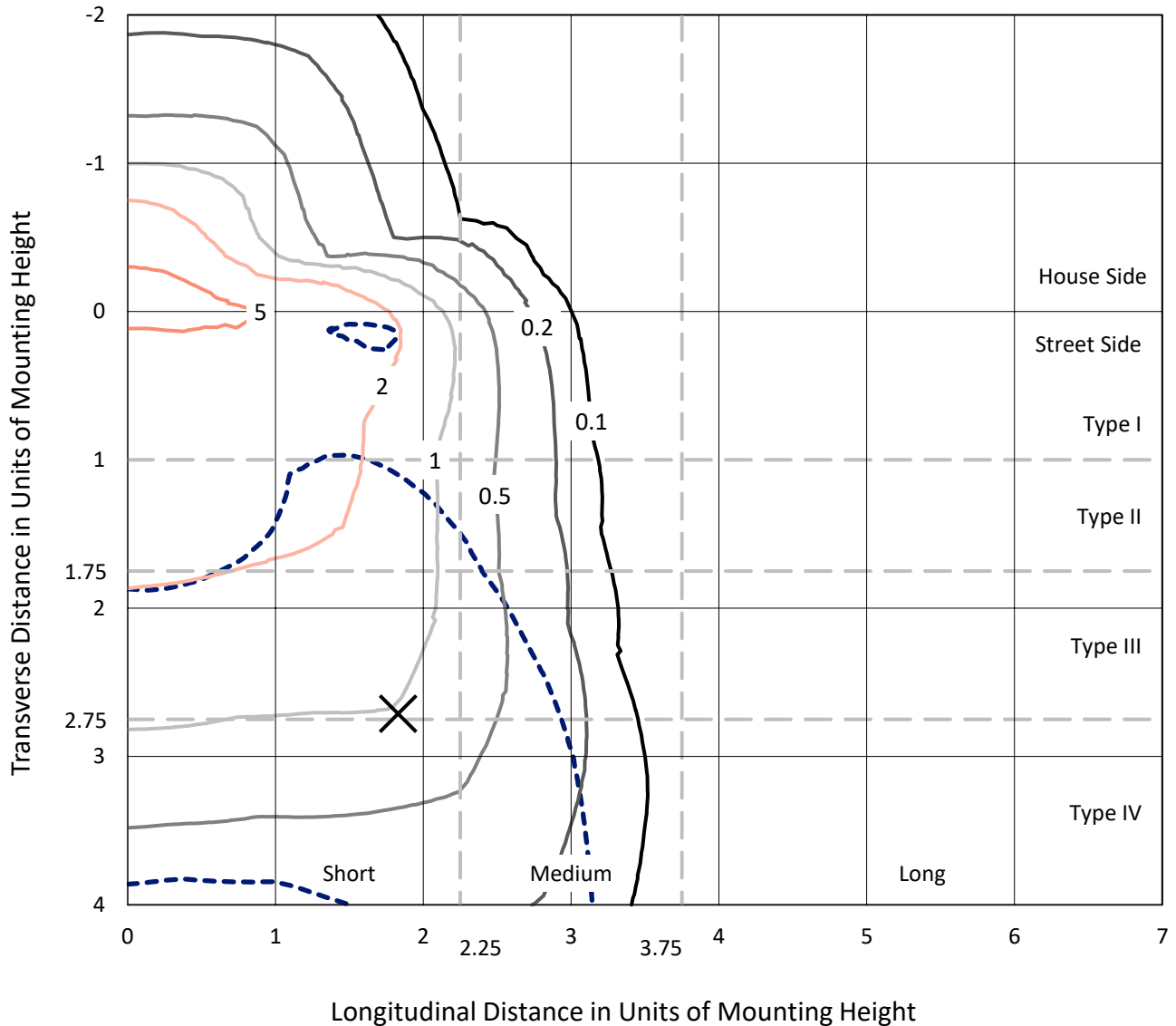
Lumens per Lamp: N/A  
Luminaire Lumens: 41356.3 lumens  
Efficiency: N/A  
Efficacy: 112.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 369  
Input Voltage (V): 120  
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: 24 FT

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### Iso-Footcandle Lines of Horizontal Illumination

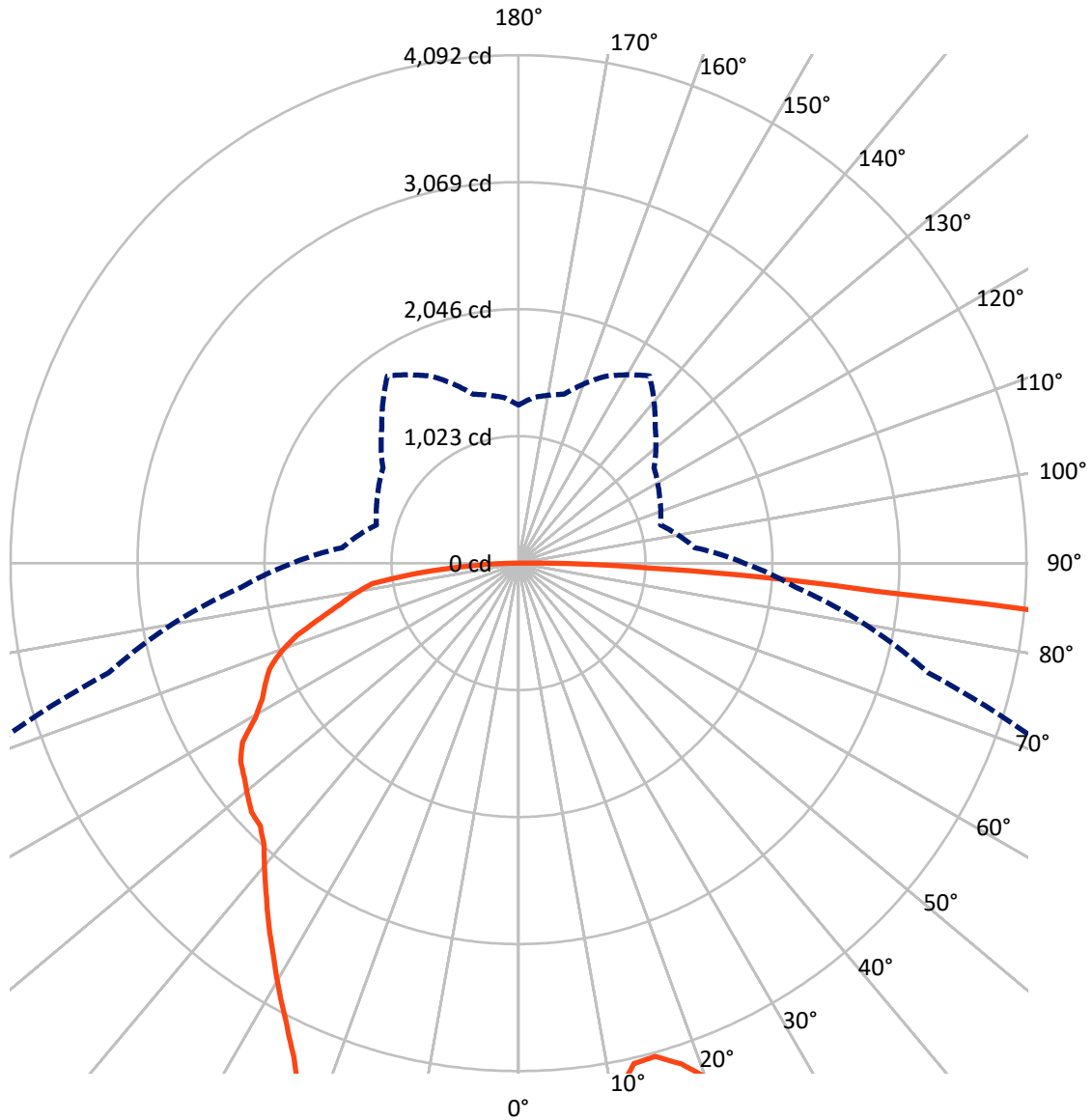
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.9 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral      - - - Horizontal Cone Through 73-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8933.5	0.0	8933.5
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	32422.9	0.0	32422.9
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	41356.3	0.0	41356.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	547.2	1.3
10°-20°	1531.5	3.7
20°-30°	2520.6	6.1
30°-40°	3769.5	9.1
40°-50°	5588.1	13.5
50°-60°	8053.0	19.5
60°-70°	10276.7	24.8
70°-80°	7997.0	19.3
80°-90°	1072.8	2.6
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°	41356.3	100.0
0°-180°	41356.3	100.0



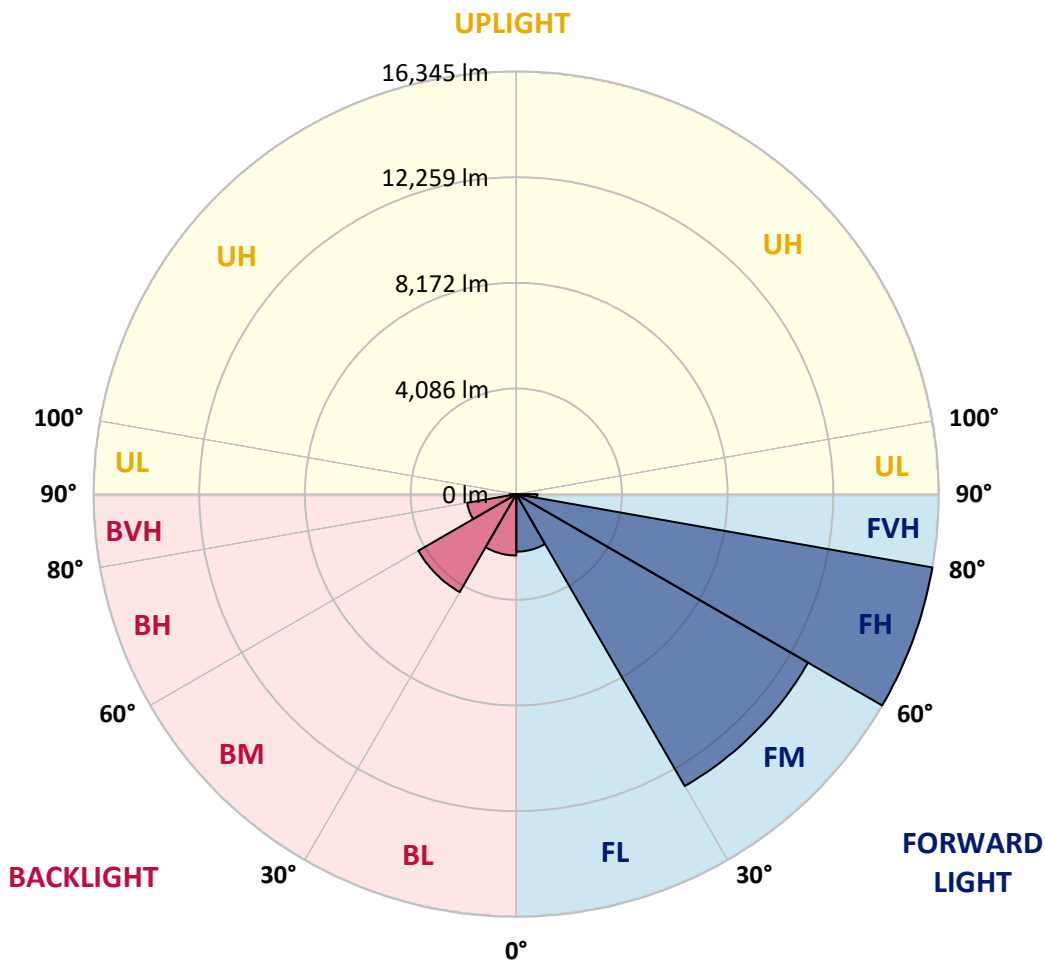
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2225.7	5.4			
FM (30°-60°)	13035.8	31.5			
FH (60°-80°)	16344.8	39.5			G5
FVH (80°-90°)	816.6	2.0			G5
BL (0°-30°)	2373.6	5.7	B3/2500		
BM (30°-60°)	4374.8	10.6	B3/5000		
BH (60°-80°)	1928.9	4.7	B3/2500		G3/2500
BVH (80°-90°)	256.2	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	5929.1	5929.1	5929.1	5929.1	5929.1	5929.1	5929.1	5929.1	5929.1	5929.1	5929.1
2.5°	5312.6	5330.1	5386.9	5400.0	5461.2	5426.2	5500.6	5631.8	5706.1	5815.4	5946.6
5°	4892.8	4818.5	4853.5	4989.0	5059.0	5076.4	5155.2	5378.1	5518.1	5679.8	5924.7
7.5°	4398.7	4385.6	4455.6	4543.0	4682.9	4696.0	4870.9	5067.7	5356.3	5714.8	6003.4
10°	4062.0	4118.9	4158.2	4250.0	4346.2	4346.2	4569.2	4910.3	5238.2	5583.7	6020.9
12.5°	4044.5	4009.6	4018.3	4066.4	4136.4	4223.8	4433.7	4739.8	5155.2	5557.4	6095.2
15°	4101.4	4114.5	4035.8	4097.0	4123.2	4153.9	4385.6	4731.0	5102.7	5649.2	6222.0
17.5°	4403.1	4328.8	4206.3	4149.5	4241.3	4241.3	4398.7	4669.8	5111.4	5697.3	6405.7
20°	4639.2	4639.2	4438.1	4376.9	4442.4	4429.3	4538.6	4739.8	5155.2	5793.5	6611.2
22.5°	5037.1	5093.9	4761.6	4634.8	4630.5	4665.4	4761.6	4932.2	5277.6	5929.1	6807.9
25°	5609.9	5623.0	5238.2	5107.1	4967.1	5024.0	5041.5	5212.0	5386.9	6086.5	7030.9
27.5°	6248.3	6239.5	5885.4	5557.4	5465.6	5478.7	5382.5	5496.2	5548.7	6134.6	7350.1
30°	6956.6	6877.9	6611.2	6147.7	6073.4	5990.3	5780.4	5776.0	5885.4	6405.7	7791.8
32.5°	7420.1	7319.5	7135.9	6803.6	6598.1	6606.8	6274.5	6270.1	6173.9	6703.0	8176.5
35°	7874.8	7721.8	7673.7	7332.6	7127.1	7149.0	6882.3	6847.3	6672.4	7153.4	8810.5
37.5°	8421.4	8285.8	8360.2	8102.2	7848.6	7743.7	7621.2	7577.5	7350.1	7787.4	9676.3
40°	9024.8	8981.1	8933.0	8806.2	8653.1	8661.9	8530.7	8487.0	8150.3	8552.6	10507.1
42.5°	9838.1	9671.9	9422.7	9505.8	9584.5	9667.5	9623.8	9510.1	9160.3	9330.9	11434.0
45°	10594.5	10375.9	9916.8	9943.0	10266.6	10332.2	10861.2	10848.1	10144.1	10319.0	12487.8
47.5°	11106.1	11005.5	10730.1	10699.5	11162.9	11158.6	12111.8	12111.8	11180.4	11302.9	13620.3
50°	11866.9	11604.6	11486.5	11639.5	11875.7	12037.4	13388.5	13471.6	12199.2	12330.4	15102.5
52.5°	12758.9	12431.0	12133.6	12527.2	12946.9	13051.8	14652.2	14617.2	12981.9	13524.1	16838.4
55°	13497.8	13331.7	13126.2	13353.5	14040.0	14171.2	15920.2	15596.6	13764.6	14512.3	17673.6
57.5°	14359.2	14459.8	14503.5	14446.7	15264.3	15469.8	17367.5	16440.5	14437.9	15176.9	18163.3
60°	15657.8	15719.1	15775.9	15911.4	16777.2	17065.8	18513.1	17498.7	14862.1	15561.6	18202.6
62.5°	17634.2	17398.1	17524.9	17992.7	18688.0	19015.9	20200.8	18242.0	15185.6	15793.4	16917.1
65°	19894.8	19575.6	19444.4	20047.8	21849.3	21586.9	22308.4	18797.3	14717.8	14927.6	14346.1
67.5°	22186.0	22220.9	21884.3	23095.4	25303.5	25303.5	24267.3	19064.0	13449.7	12098.6	10061.1
70°	24004.9	24114.2	24297.9	26645.9	30143.9	30672.9	26694.0	17970.9	10865.6	8054.1	5500.6
72.5°	23978.7	23650.7	24590.8	28915.2	34542.6	34101.0	27201.2	14210.6	6781.7	3944.0	2522.9
73°	23440.9	23165.4	24192.9	28893.3	34721.8	34306.5	26829.5	13099.9	5981.6	3419.3	2243.1
75°	19142.7	18644.2	20393.2	26169.3	32124.6	32443.8	22793.7	8543.8	3279.4	2107.5	1578.5
77.5°	8727.5	8946.1	11224.2	17555.5	24757.0	25133.0	14984.5	3694.7	1797.1	1477.9	1163.1
80°	2802.8	2942.7	4368.1	8727.5	15517.9	16195.7	6926.0	1679.0	1281.1	1132.5	870.1
82.5°	1071.3	1066.9	1832.1	3629.2	7354.5	7787.4	2531.7	1023.2	953.2	835.1	616.5
85°	376.0	393.5	690.9	1434.2	2894.6	3030.1	878.9	568.4	660.2	559.7	354.2
87.5°	131.2	135.5	244.9	520.3	996.9	1053.8	244.9	227.4	327.9	323.6	179.3
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°	5929.1	5929.1	5929.1	5929.1	5929.1	5929.1	5929.1	5929.1	5929.1	5929.1	5929.1
2.5°	5990.3	6029.6	6042.8	6200.2	6200.2	6200.2	6261.4	6261.4	6243.9	6200.2	6305.1
5°	6016.5	6086.5	6222.0	6357.6	6392.6	6423.2	6506.2	6436.3	6462.5	6418.8	6458.2
7.5°	6090.9	6187.1	6440.7	6523.7	6466.9	6532.5	6445.0	6396.9	6348.8	6366.3	6305.1
10°	6217.7	6340.1	6458.2	6611.2	6501.9	6436.3	6257.0	6213.3	6060.3	6007.8	6055.9
12.5°	6375.1	6523.7	6724.9	6668.0	6458.2	6270.1	6077.7	5894.1	5802.3	5671.1	5706.1
15°	6532.5	6703.0	6733.6	6637.4	6375.1	6139.0	5789.2	5531.2	5439.4	5321.3	5382.5
17.5°	6703.0	6864.8	6812.3	6563.1	6208.9	5850.4	5452.5	5198.9	5006.5	4932.2	4932.2
20°	6956.6	7035.3	6952.2	6440.7	6007.8	5535.6	5150.8	4862.2	4669.8	4639.2	4591.1
22.5°	7153.4	7280.2	6908.5	6261.4	5714.8	5124.5	4682.9	4573.6	4516.8	4468.7	4407.5
25°	7407.0	7402.6	6829.8	6095.2	5212.0	4634.8	4368.1	4359.4	4333.1	4315.6	4398.7
27.5°	7647.5	7546.9	6738.0	5684.2	4691.7	4263.2	4118.9	4215.1	4254.4	4228.2	4263.2
30°	8027.9	7861.7	6606.8	5247.0	4232.6	3887.1	3913.4	4044.5	4110.1	4149.5	4097.0
32.5°	8430.1	8176.5	6335.7	4792.2	3825.9	3651.0	3712.2	3847.8	3926.5	3970.2	4018.3
35°	9011.7	8421.4	6060.3	4197.6	3533.0	3506.7	3541.7	3616.0	3729.7	3760.3	3773.4
37.5°	9728.8	8793.1	5688.6	3721.0	3305.6	3336.2	3371.2	3397.4	3401.8	3458.6	3436.8
40°	10445.9	9107.9	5146.4	3266.2	3069.5	3235.6	3218.1	3170.0	3130.7	3078.2	3065.1
42.5°	11075.5	9383.3	4543.0	2881.5	2859.6	3130.7	3073.9	2951.4	2859.6	2820.2	2754.7
45°	11783.8	9772.5	3935.2	2641.0	2697.8	3003.9	2986.4	2798.4	2680.3	2540.4	2522.9
47.5°	12702.0	10179.1	3353.7	2391.7	2544.8	2955.8	2964.5	2724.1	2553.5	2365.5	2339.3
50°	13878.2	10765.0	2912.1	2286.8	2453.0	2885.8	2899.0	2623.5	2400.5	2208.1	2190.6
52.5°	15006.3	11364.1	2544.8	2125.0	2391.7	2802.8	2833.4	2531.7	2273.7	2033.2	2046.3
55°	15574.8	11145.4	2230.0	2007.0	2251.8	2667.2	2780.9	2466.1	2081.3	1915.1	1910.8
57.5°	15701.6	10607.6	1980.7	1884.5	2133.8	2522.9	2693.4	2269.3	1993.9	1853.9	1836.4
60°	15286.2	9667.5	1784.0	1753.4	1985.1	2374.3	2492.3	2164.4	1906.4	1792.7	1766.5
62.5°	14263.0	8692.5	1648.4	1692.1	1858.3	2212.5	2365.5	2090.0	1823.3	1744.6	1687.8
65°	11696.4	7149.0	1539.1	1574.1	1727.1	2055.1	2286.8	2007.0	1749.0	1674.7	1670.3
67.5°	8102.2	4927.8	1451.7	1517.2	1622.2	1941.4	2208.1	1915.1	1652.8	1626.6	1591.6
70°	4149.5	2627.9	1338.0	1390.4	1508.5	1797.1	2068.2	1819.0	1552.2	1547.9	1504.1
72.5°	2103.2	1539.1	1206.8	1285.5	1368.6	1609.1	1893.3	1692.1	1425.4	1377.3	1307.4
73°	1819.0	1425.4	1184.9	1254.9	1333.6	1556.6	1840.8	1661.5	1407.9	1338.0	1272.4
75°	1324.9	1123.7	1062.5	1132.5	1193.7	1403.6	1665.9	1521.6	1294.3	1219.9	1158.7
77.5°	992.6	865.8	883.2	961.9	1014.4	1211.2	1482.3	1377.3	1171.8	1071.3	1045.0
80°	730.2	660.2	730.2	804.5	843.9	1066.9	1351.1	1193.7	988.2	874.5	852.6
82.5°	520.3	481.0	564.0	612.1	629.6	883.2	1215.5	953.2	747.7	599.0	550.9
85°	297.3	293.0	380.4	376.0	389.2	516.0	800.2	634.0	481.0	367.3	358.5
87.5°	131.2	144.3	192.4	153.0	161.8	244.9	341.1	236.1	196.8	109.3	83.1
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)