

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: P478178

Luminaire Tested: **IFLD-M-SA4C-740-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478178
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-740-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (64) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

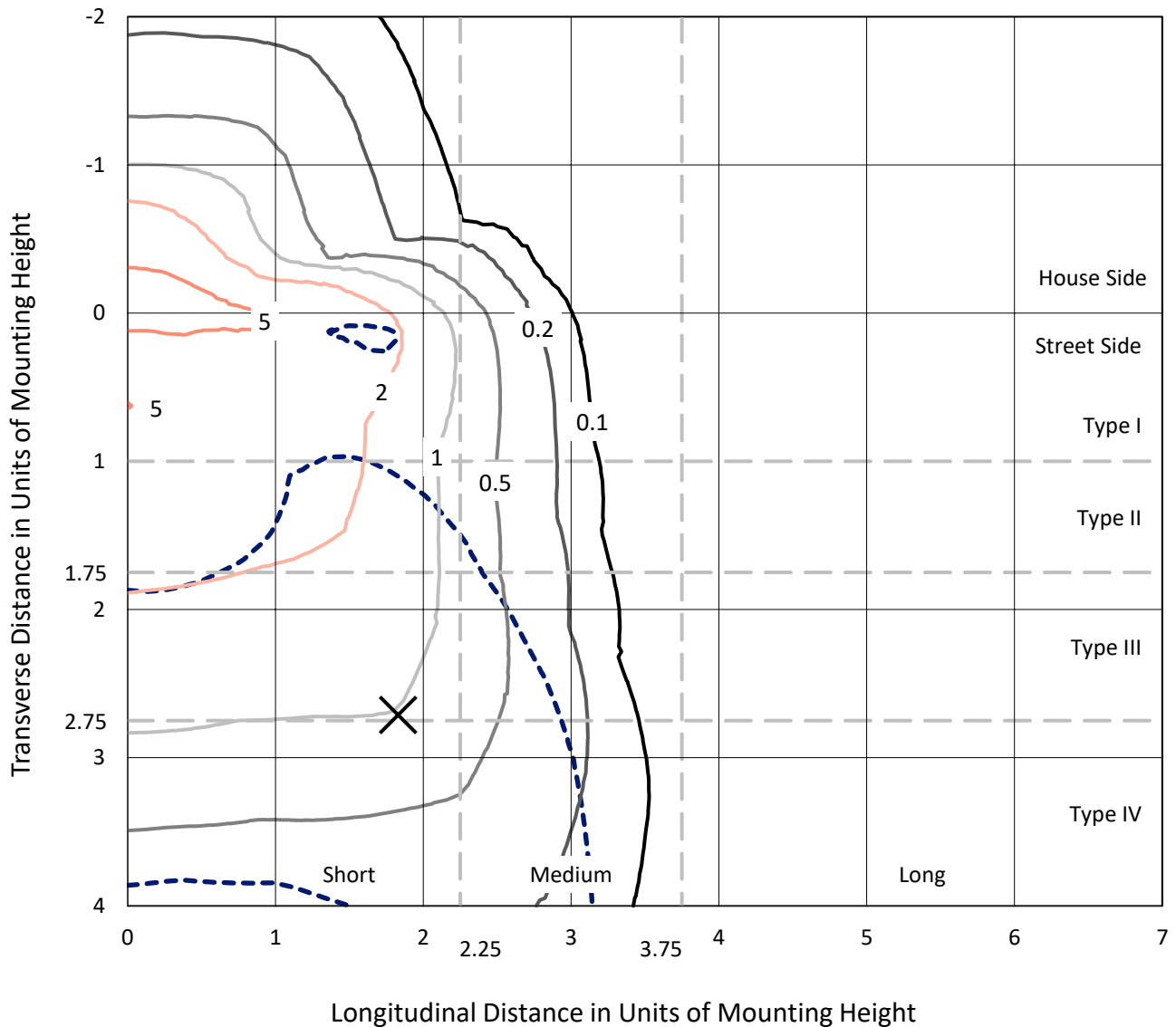
Lumens per Lamp: N/A
Luminaire Lumens: 29128 lumens
Efficiency: N/A
Efficacy: 133.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 218.1
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

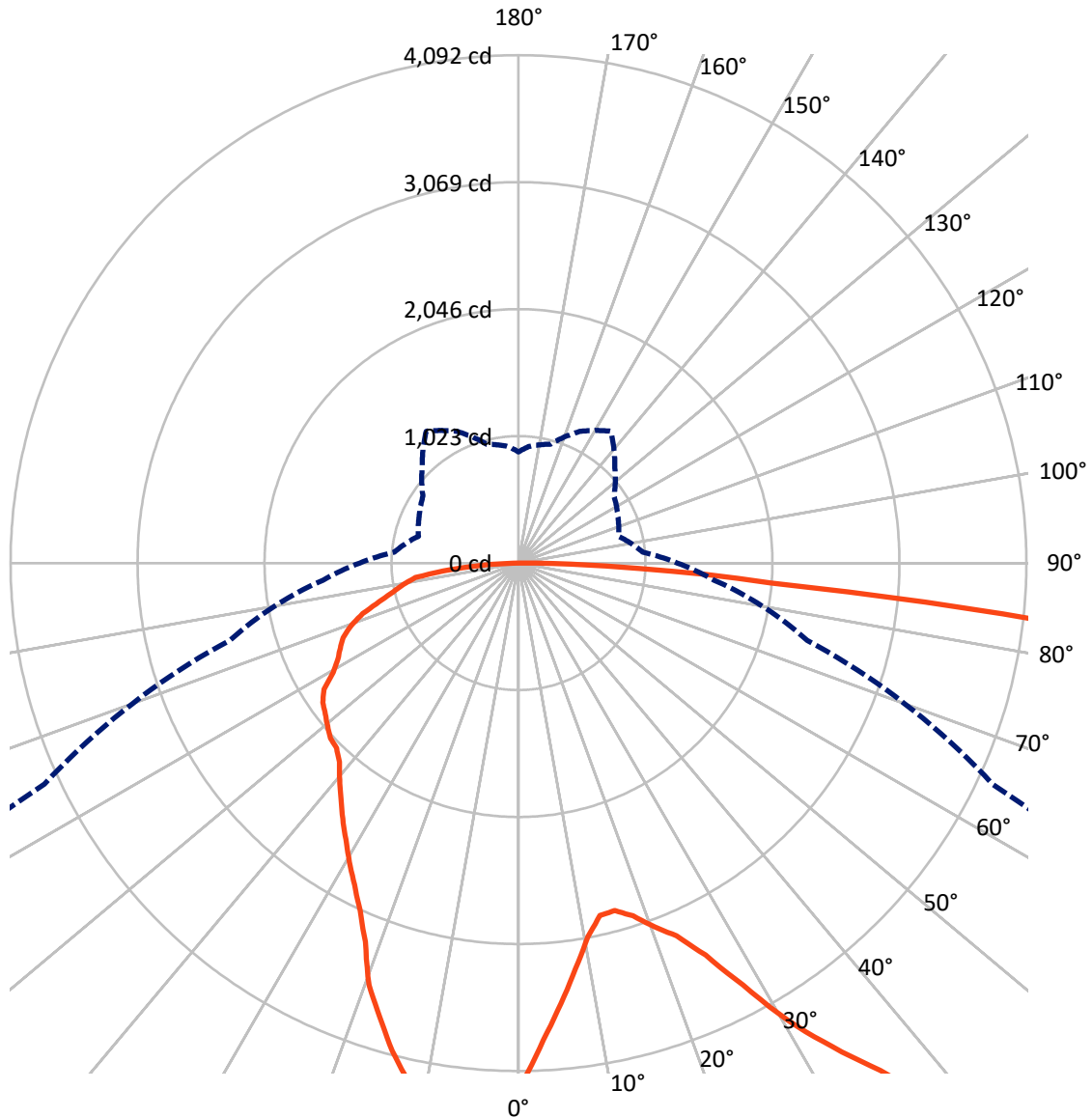
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 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
House Side	Lumens	6292.0	0.0	6292.0
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	22836.0	0.0	22836.0
	% Fixture	78.4	0.0	78.4
Total	Lumens	29128.0	0.0	29128.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	385.4	1.3
10°-20°	1078.6	3.7
20°-30°	1775.3	6.1
30°-40°	2654.9	9.1
40°-50°	3935.8	13.5
50°-60°	5671.9	19.5
60°-70°	7238.1	24.8
70°-80°	5632.4	19.3
80°-90°	755.6	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°	29128.0	100.0
0°-180°	29128.0	100.0

Coefficient of Utilization



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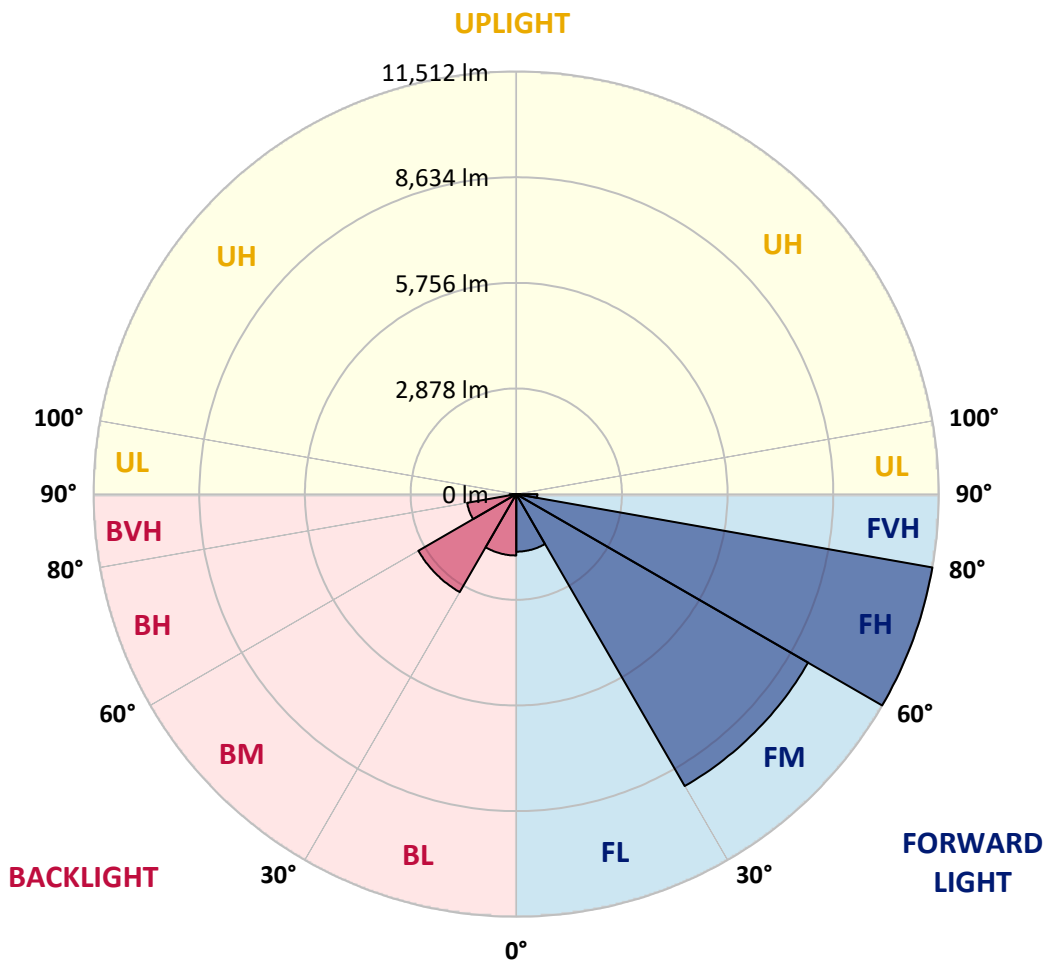
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1567.6	5.4			
FM (30°-60°)	9181.3	31.5			
FH (60°-80°)	11511.9	39.5			G4/12000
FVH (80°-90°)	575.2	2.0			G4/750
BL (0°-30°)	1671.7	5.7	B3/2500		
BM (30°-60°)	3081.2	10.6	B3/5000		
BH (60°-80°)	1358.6	4.7	B3/2500		G3/2500
BVH (80°-90°)	180.5	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	4176.0	4176.0	4176.0	4176.0	4176.0	4176.0	4176.0	4176.0	4176.0	4176.0	4176.0
2.5°	3741.7	3754.1	3794.1	3803.3	3846.4	3821.8	3874.2	3966.5	4018.9	4095.9	4188.3
5°	3446.1	3393.7	3418.4	3513.8	3563.1	3575.4	3630.9	3787.9	3886.5	4000.4	4172.9
7.5°	3098.1	3088.9	3138.1	3199.7	3298.3	3307.5	3430.7	3569.3	3772.5	4025.1	4228.3
10°	2861.0	2901.0	2928.7	2993.4	3061.1	3061.1	3218.2	3458.4	3689.4	3932.7	4240.6
12.5°	2848.6	2824.0	2830.2	2864.0	2913.3	2974.9	3122.7	3338.3	3630.9	3914.2	4293.0
15°	2888.7	2897.9	2842.5	2885.6	2904.1	2925.6	3088.9	3332.1	3593.9	3978.9	4382.3
17.5°	3101.2	3048.8	2962.6	2922.6	2987.2	2987.2	3098.1	3289.0	3600.1	4012.7	4511.6
20°	3267.5	3267.5	3125.8	3082.7	3128.9	3119.7	3196.6	3338.3	3630.9	4080.5	4656.4
22.5°	3547.7	3587.8	3353.7	3264.4	3261.3	3285.9	3353.7	3473.8	3717.1	4176.0	4795.0
25°	3951.1	3960.4	3689.4	3597.0	3498.4	3538.5	3550.8	3670.9	3794.1	4286.8	4952.0
27.5°	4400.8	4394.6	4145.2	3914.2	3849.5	3858.8	3791.0	3871.1	3908.0	4320.7	5176.8
30°	4899.7	4844.2	4656.4	4329.9	4277.6	4219.1	4071.3	4068.2	4145.2	4511.6	5487.9
32.5°	5226.1	5155.3	5025.9	4791.9	4647.1	4653.3	4419.2	4416.2	4348.4	4721.1	5758.9
35°	5546.4	5438.6	5404.7	5164.5	5019.8	5035.2	4847.3	4822.7	4699.5	5038.3	6205.4
37.5°	5931.3	5835.9	5888.2	5706.5	5527.9	5454.0	5367.8	5337.0	5176.8	5484.8	6815.2
40°	6356.3	6325.5	6291.7	6202.3	6094.6	6100.7	6008.3	5977.5	5740.4	6023.7	7400.3
42.5°	6929.1	6812.1	6636.6	6695.1	6750.5	6809.0	6778.2	6698.2	6451.8	6571.9	8053.2
45°	7461.9	7307.9	6984.6	7003.0	7230.9	7277.1	7649.8	7640.5	7144.7	7267.9	8795.4
47.5°	7822.2	7751.4	7557.4	7535.8	7862.3	7859.2	8530.5	8530.5	7874.6	7960.8	9593.0
50°	8358.1	8173.3	8090.1	8197.9	8364.2	8478.2	9429.8	9488.3	8592.1	8684.5	10637.0
52.5°	8986.3	8755.3	8545.9	8823.1	9118.7	9192.7	10319.8	10295.2	9143.4	9525.2	11859.6
55°	9506.8	9389.7	9245.0	9405.1	9888.6	9981.0	11212.9	10985.0	9694.6	10221.2	12447.8
57.5°	10113.5	10184.3	10215.1	10175.0	10750.9	10895.7	12232.2	11579.4	10168.9	10689.3	12792.7
60°	11028.1	11071.2	11111.3	11206.7	11816.5	12019.7	13039.1	12324.6	10467.6	10960.4	12820.4
62.5°	12420.1	12253.8	12343.1	12672.6	13162.3	13393.2	14227.8	12848.2	10695.5	11123.6	11915.0
65°	14012.2	13787.4	13695.0	14120.0	15388.8	15204.1	15712.2	13239.3	10366.0	10513.8	10104.2
67.5°	15626.0	15650.6	15413.5	16266.5	17821.7	17821.7	17091.9	13427.1	9472.9	8521.3	7086.2
70°	16907.1	16984.1	17113.4	18767.2	21230.9	21603.5	18801.1	12657.2	7652.8	5672.7	3874.2
72.5°	16888.6	16657.6	17319.8	20365.5	24329.0	24017.9	19158.3	10008.7	4776.5	2777.8	1776.9
73°	16509.8	16315.8	17039.5	20350.1	24455.2	24162.7	18896.5	9226.5	4212.9	2408.3	1579.8
75°	13482.6	13131.5	14363.3	18431.5	22625.9	22850.7	16054.0	6017.6	2309.7	1484.4	1111.7
77.5°	6146.9	6300.9	7905.4	12364.7	17436.8	17701.6	10553.8	2602.3	1265.7	1040.9	819.2
80°	1974.0	2072.6	3076.5	6146.9	10929.6	11406.9	4878.1	1182.6	902.3	797.6	612.8
82.5°	754.5	751.4	1290.4	2556.1	5179.9	5484.8	1783.1	720.6	671.4	588.2	434.2
85°	264.8	277.2	486.6	1010.1	2038.7	2134.2	619.0	400.3	465.0	394.2	249.4
87.5°	92.4	95.5	172.5	366.5	702.2	742.2	172.5	160.1	231.0	227.9	126.3
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°	4176.0	4176.0	4176.0	4176.0	4176.0	4176.0	4176.0	4176.0	4176.0	4176.0	4176.0
2.5°	4219.1	4246.8	4256.0	4366.9	4366.9	4366.9	4410.0	4410.0	4397.7	4366.9	4440.8
5°	4237.6	4286.8	4382.3	4477.8	4502.4	4524.0	4582.5	4533.2	4551.7	4520.9	4548.6
7.5°	4289.9	4357.7	4536.3	4594.8	4554.8	4600.9	4539.4	4505.5	4471.6	4483.9	4440.8
10°	4379.2	4465.4	4548.6	4656.4	4579.4	4533.2	4406.9	4376.1	4268.3	4231.4	4265.3
12.5°	4490.1	4594.8	4736.4	4696.4	4548.6	4416.2	4280.7	4151.3	4086.6	3994.3	4018.9
15°	4600.9	4721.1	4742.6	4674.9	4490.1	4323.8	4077.4	3895.7	3831.0	3747.9	3791.0
17.5°	4721.1	4835.0	4798.0	4622.5	4373.1	4120.5	3840.3	3661.7	3526.2	3473.8	3473.8
20°	4899.7	4955.1	4896.6	4536.3	4231.4	3898.8	3627.8	3424.5	3289.0	3267.5	3233.6
22.5°	5038.3	5127.6	4865.8	4410.0	4025.1	3609.3	3298.3	3221.3	3181.2	3147.4	3104.3
25°	5216.9	5213.8	4810.4	4293.0	3670.9	3264.4	3076.5	3070.4	3051.9	3039.6	3098.1
27.5°	5386.2	5315.4	4745.7	4003.5	3304.4	3002.6	2901.0	2968.7	2996.5	2978.0	3002.6
30°	5654.2	5537.1	4653.3	3695.5	2981.1	2737.8	2756.3	2848.6	2894.8	2922.6	2885.6
32.5°	5937.5	5758.9	4462.4	3375.3	2694.7	2571.5	2614.6	2710.1	2765.5	2796.3	2830.2
35°	6347.1	5931.3	4268.3	2956.4	2488.3	2469.9	2494.5	2546.8	2626.9	2648.5	2657.7
37.5°	6852.1	6193.1	4006.6	2620.8	2328.2	2349.7	2374.4	2392.9	2395.9	2436.0	2420.6
40°	7357.2	6414.8	3624.7	2300.5	2161.9	2278.9	2266.6	2232.7	2205.0	2168.0	2158.8
42.5°	7800.7	6608.9	3199.7	2029.5	2014.1	2205.0	2165.0	2078.7	2014.1	1986.4	1940.2
45°	8299.6	6882.9	2771.7	1860.1	1900.1	2115.7	2103.4	1971.0	1887.8	1789.3	1776.9
47.5°	8946.3	7169.3	2362.1	1684.5	1792.3	2081.8	2088.0	1918.6	1798.5	1666.1	1647.6
50°	9774.7	7582.0	2051.0	1610.6	1727.7	2032.5	2041.8	1847.8	1690.7	1555.2	1542.9
52.5°	10569.2	8003.9	1792.3	1496.7	1684.5	1974.0	1995.6	1783.1	1601.4	1432.0	1441.3
55°	10969.6	7849.9	1570.6	1413.5	1586.0	1878.6	1958.6	1736.9	1465.9	1348.9	1345.8
57.5°	11058.9	7471.1	1395.1	1327.3	1502.9	1776.9	1897.0	1598.3	1404.3	1305.8	1293.4
60°	10766.3	6809.0	1256.5	1234.9	1398.1	1672.2	1755.4	1524.4	1342.7	1262.6	1244.2
62.5°	10045.7	6122.3	1161.0	1191.8	1308.8	1558.3	1666.1	1472.1	1284.2	1228.8	1188.7
65°	8238.0	5035.2	1084.0	1108.7	1216.4	1447.4	1610.6	1413.5	1231.8	1179.5	1176.4
67.5°	5706.5	3470.7	1022.4	1068.6	1142.5	1367.3	1555.2	1348.9	1164.1	1145.6	1121.0
70°	2922.6	1850.8	942.4	979.3	1062.5	1265.7	1456.7	1281.1	1093.3	1090.2	1059.4
72.5°	1481.3	1084.0	850.0	905.4	963.9	1133.3	1333.5	1191.8	1004.0	970.1	920.8
73°	1281.1	1004.0	834.6	883.8	939.3	1096.3	1296.5	1170.3	991.6	942.4	896.2
75°	933.1	791.5	748.3	797.6	840.7	988.6	1173.3	1071.7	911.6	859.2	816.1
77.5°	699.1	609.8	622.1	677.5	714.5	853.1	1044.0	970.1	825.3	754.5	736.0
80°	514.3	465.0	514.3	566.6	594.4	751.4	951.6	840.7	696.0	615.9	600.5
82.5°	366.5	338.8	397.3	431.1	443.5	622.1	856.1	671.4	526.6	421.9	388.0
85°	209.4	206.3	267.9	264.8	274.1	363.4	563.6	446.5	338.8	258.7	252.5
87.5°	92.4	101.6	135.5	107.8	113.9	172.5	240.2	166.3	138.6	77.0	58.5
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)