

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: P478181

Luminaire Tested: **IFLD-L-SA7A-740-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478181
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-740-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (112) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

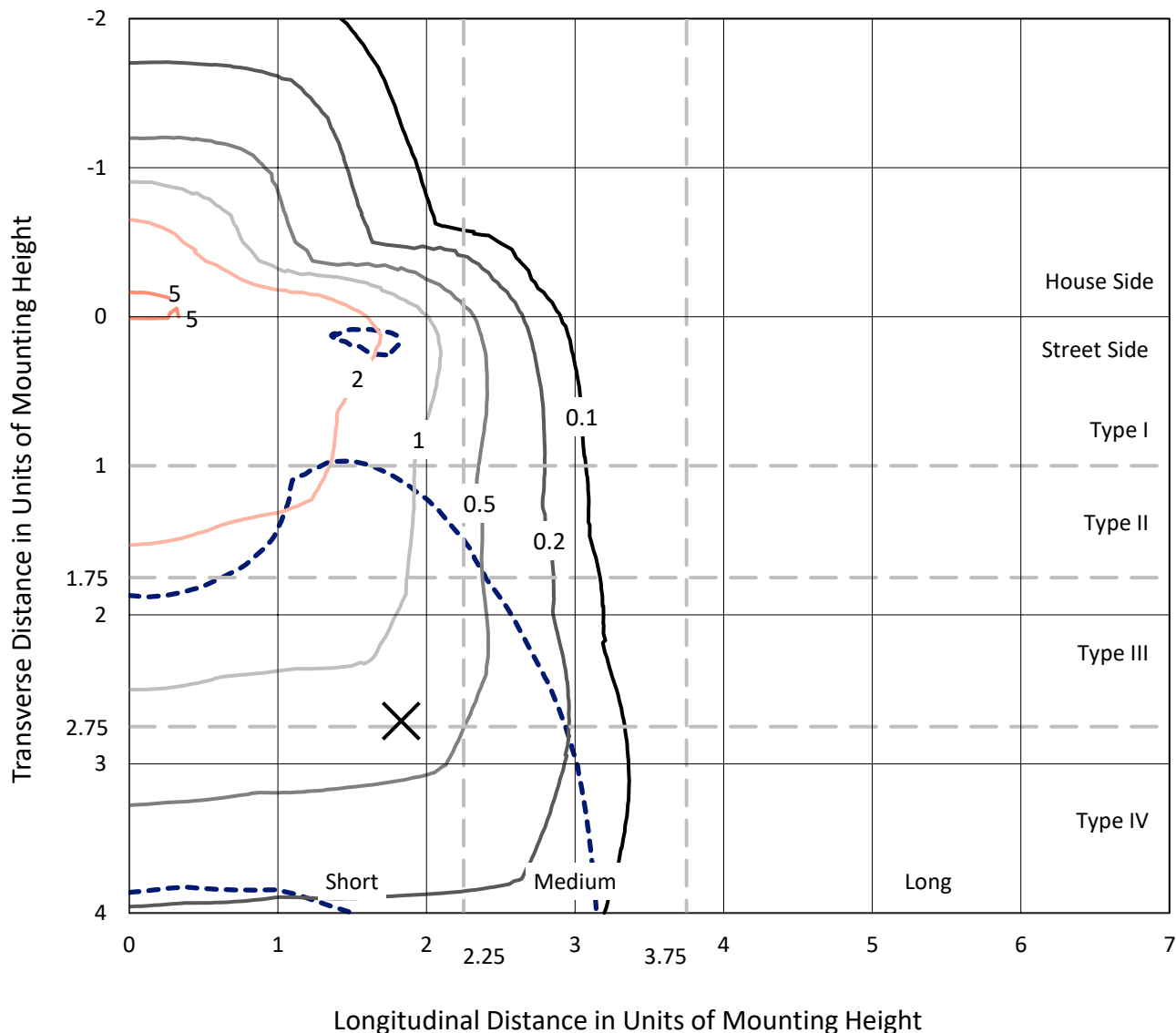
Lumens per Lamp: N/A
Luminaire Lumens: 32067.1 lumens
Efficiency: N/A
Efficacy: 147.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 217.6
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

REPORT NUMBER: P478181
 CATALOG NUMBER: IFLD-L-SA7A-740-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

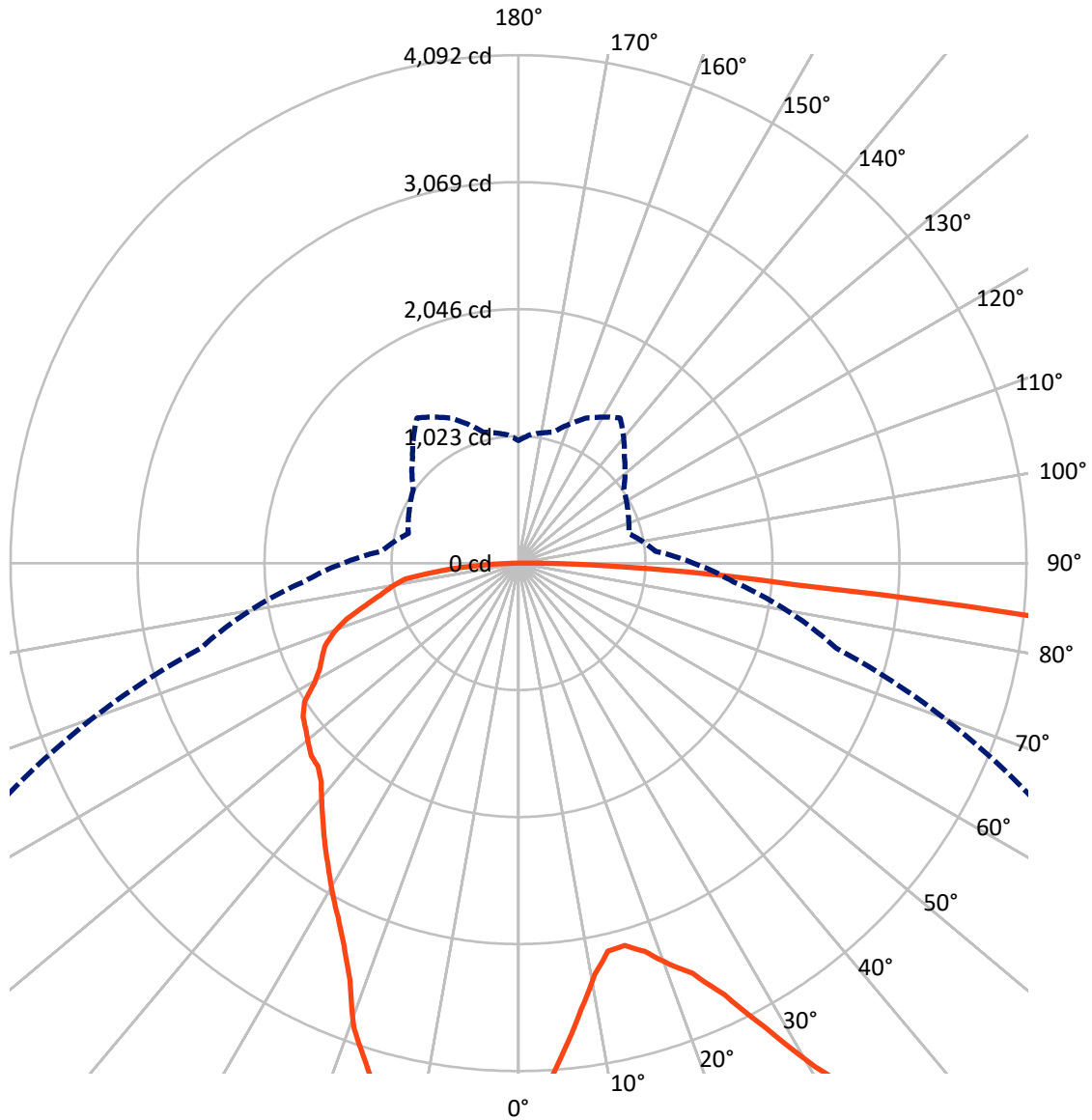
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.3 fc
 Type IV - Short - N/A

REPORT NUMBER: P478181
CATALOG NUMBER: IFLD-L-SA7A-740-U-T4FT

Luminous Intensity Polar Plot



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

REPORT NUMBER: P478181
 CATALOG NUMBER: IFLD-L-SA7A-740-U-T4FT

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6926.9	0.0	6926.9
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	25140.2	0.0	25140.2
	% Fixture	78.4	0.0	78.4
Total	Lumens	32067.1	0.0	32067.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	424.3	1.3
10°-20°	1187.5	3.7
20°-30°	1954.4	6.1
30°-40°	2922.8	9.1
40°-50°	4332.9	13.5
50°-60°	6244.2	19.5
60°-70°	7968.4	24.8
70°-80°	6200.8	19.3
80°-90°	831.9	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°	32067.1	100.0
0°-180°	32067.1	100.0

Coefficient of Utilization



REPORT NUMBER: P478181

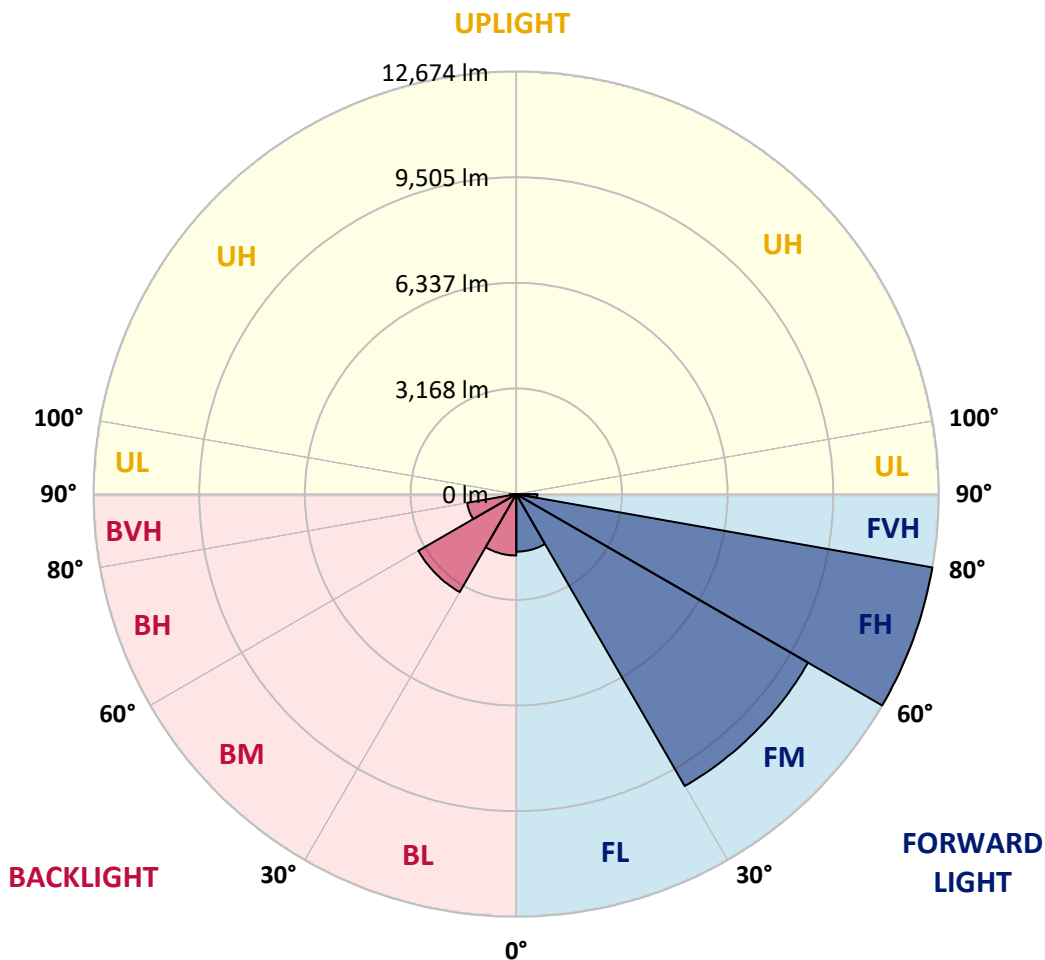
CATALOG NUMBER: IFLD-L-SA7A-740-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1725.8	5.4			
FM (30°-60°)	10107.8	31.5			
FH (60°-80°)	12673.5	39.5			G5
FVH (80°-90°)	633.2	2.0			G4/750
BL (0°-30°)	1840.4	5.7	B3/2500		
BM (30°-60°)	3392.1	10.6	B3/5000		
BH (60°-80°)	1495.7	4.7	B3/2500		G3/2500
BVH (80°-90°)	198.7	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-G5

Type IV Short





REPORT NUMBER: P478181
 CATALOG NUMBER: IFLD-L-SA7A-740-U-T4FT

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	4597.3	4597.3	4597.3	4597.3	4597.3	4597.3	4597.3	4597.3	4597.3	4597.3	4597.3
2.5°	4119.3	4132.8	4176.9	4187.1	4234.6	4207.4	4265.1	4366.8	4424.4	4509.2	4610.9
5°	3793.8	3736.2	3763.3	3868.4	3922.6	3936.2	3997.2	4170.1	4278.6	4404.1	4593.9
7.5°	3410.7	3400.5	3454.8	3522.6	3631.1	3641.2	3776.9	3929.4	4153.2	4431.2	4655.0
10°	3149.6	3193.7	3224.2	3295.4	3370.0	3370.0	3542.9	3807.4	4061.6	4329.5	4668.5
12.5°	3136.1	3109.0	3115.7	3153.0	3207.3	3275.1	3437.8	3675.1	3997.2	4309.1	4726.2
15°	3180.2	3190.3	3129.3	3176.8	3197.1	3220.8	3400.5	3668.4	3956.5	4380.3	4824.5
17.5°	3414.1	3356.5	3261.5	3217.4	3288.6	3288.6	3410.7	3620.9	3963.3	4417.6	4966.9
20°	3597.2	3597.2	3441.2	3393.7	3444.6	3434.4	3519.2	3675.1	3997.2	4492.2	5126.2
22.5°	3905.7	3949.8	3692.1	3593.8	3590.4	3617.5	3692.1	3824.3	4092.2	4597.3	5278.8
25°	4349.8	4360.0	4061.6	3959.9	3851.4	3895.5	3909.1	4041.3	4176.9	4719.4	5451.7
27.5°	4844.8	4838.0	4563.4	4309.1	4237.9	4248.1	4173.5	4261.7	4302.4	4756.7	5699.2
30°	5394.1	5333.0	5126.2	4766.8	4709.2	4644.8	4482.1	4478.7	4563.4	4966.9	6041.6
32.5°	5753.4	5675.5	5533.1	5275.4	5116.0	5122.8	4865.2	4861.8	4787.2	5197.4	6340.0
35°	6106.0	5987.4	5950.1	5685.6	5526.3	5543.2	5336.4	5309.3	5173.7	5546.6	6831.6
37.5°	6529.8	6424.7	6482.4	6282.3	6085.7	6004.3	5909.4	5875.5	5699.2	6038.2	7502.9
40°	6997.7	6963.8	6926.5	6828.2	6709.5	6716.3	6614.6	6580.7	6319.6	6631.5	8147.0
42.5°	7628.3	7499.5	7306.2	7370.6	7431.7	7496.1	7462.2	7374.0	7102.8	7235.0	8865.8
45°	8214.8	8045.3	7689.3	7709.7	7960.6	8011.4	8421.6	8411.5	7865.6	8001.2	9682.9
47.5°	8611.5	8533.5	8319.9	8296.2	8655.6	8652.2	9391.3	9391.3	8669.1	8764.1	10561.0
50°	9201.4	8998.0	8906.5	9025.1	9208.2	9333.7	10381.3	10445.7	9459.1	9560.8	11710.3
52.5°	9893.1	9638.8	9408.2	9713.4	10038.8	10120.2	11361.1	11334.0	10066.0	10486.4	13056.3
55°	10466.0	10337.2	10177.9	10354.2	10886.4	10988.1	12344.3	12093.4	10672.8	11252.6	13703.8
57.5°	11133.9	11211.9	11245.8	11201.7	11835.7	11995.1	13466.5	12747.7	11195.0	11767.9	14083.5
60°	12140.9	12188.3	12232.4	12337.5	13008.8	13232.6	14354.8	13568.2	11523.8	12066.3	14114.1
62.5°	13673.3	13490.2	13588.6	13951.3	14490.4	14744.7	15663.5	14144.6	11774.7	12246.0	13117.3
65°	15426.1	15178.6	15076.9	15544.8	16941.6	16738.2	17297.6	14575.1	11411.9	11574.7	11123.8
67.5°	17202.7	17229.8	16968.7	17907.9	19620.0	19620.0	18816.5	14782.0	10428.7	9381.1	7801.2
70°	18613.1	18697.8	18840.2	20660.8	23373.1	23783.4	20698.1	13934.4	8425.0	6245.0	4265.1
72.5°	18592.7	18338.4	19067.4	22420.4	26783.8	26441.4	21091.4	11018.7	5258.4	3058.1	1956.2
73°	18175.7	17962.1	18758.8	22403.5	26922.8	26600.7	20803.2	10157.5	4638.0	2651.3	1739.3
75°	14843.0	14456.5	15812.6	20291.3	24909.0	25156.5	17673.9	6624.8	2542.8	1634.2	1223.9
77.5°	6767.2	6936.7	8703.0	13612.3	19196.2	19487.8	11618.8	2864.9	1393.4	1145.9	901.8
80°	2173.2	2281.7	3387.0	6767.2	12032.4	12557.9	5370.3	1301.9	993.4	878.1	674.7
82.5°	830.6	827.2	1420.6	2814.0	5702.6	6038.2	1963.0	793.3	739.1	647.6	478.0
85°	291.6	305.1	535.7	1112.0	2244.4	2349.5	681.5	440.7	511.9	434.0	274.6
87.5°	101.7	105.1	189.9	403.5	773.0	817.1	189.9	176.3	254.3	250.9	139.0
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: P478181
 CATALOG NUMBER: IFLD-L-SA7A-740-U-T4FT

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4597.3	4597.3	4597.3	4597.3	4597.3	4597.3	4597.3	4597.3	4597.3	4597.3	4597.3
2.5°	4644.8	4675.3	4685.5	4807.5	4807.5	4807.5	4855.0	4855.0	4841.4	4807.5	4888.9
5°	4665.1	4719.4	4824.5	4929.6	4956.7	4980.4	5044.9	4990.6	5010.9	4977.0	5007.6
7.5°	4722.8	4797.4	4994.0	5058.4	5014.3	5065.2	4997.4	4960.1	4922.8	4936.4	4888.9
10°	4821.1	4916.0	5007.6	5126.2	5041.5	4990.6	4851.6	4817.7	4699.0	4658.4	4695.6
12.5°	4943.1	5058.4	5214.4	5170.3	5007.6	4861.8	4712.6	4570.2	4499.0	4397.3	4424.4
15°	5065.2	5197.4	5221.2	5146.6	4943.1	4760.1	4488.8	4288.8	4217.6	4126.1	4173.5
17.5°	5197.4	5322.9	5282.2	5088.9	4814.3	4536.3	4227.8	4031.1	3882.0	3824.3	3824.3
20°	5394.1	5455.1	5390.7	4994.0	4658.4	4292.2	3993.8	3770.1	3620.9	3597.2	3559.9
22.5°	5546.6	5644.9	5356.8	4855.0	4431.2	3973.5	3631.1	3546.3	3502.2	3464.9	3417.5
25°	5743.3	5739.9	5295.7	4726.2	4041.3	3593.8	3387.0	3380.2	3359.8	3346.3	3410.7
27.5°	5929.7	5851.8	5224.5	4407.5	3637.9	3305.6	3193.7	3268.3	3298.8	3278.5	3305.6
30°	6224.7	6095.9	5122.8	4068.4	3281.9	3014.0	3034.4	3136.1	3186.9	3217.4	3176.8
32.5°	6536.6	6340.0	4912.6	3715.8	2966.6	2830.9	2878.4	2983.5	3044.5	3078.4	3115.7
35°	6987.5	6529.8	4699.0	3254.7	2739.4	2719.1	2746.2	2803.8	2892.0	2915.7	2925.9
37.5°	7543.5	6818.0	4410.9	2885.2	2563.1	2586.8	2614.0	2634.3	2637.7	2681.8	2664.8
40°	8099.6	7062.1	3990.5	2532.6	2380.0	2508.9	2495.3	2458.0	2427.5	2386.8	2376.6
42.5°	8587.8	7275.7	3522.6	2234.2	2217.3	2427.5	2383.4	2288.5	2217.3	2186.8	2135.9
45°	9137.0	7577.4	3051.3	2047.8	2091.9	2329.2	2315.6	2169.8	2078.3	1969.8	1956.2
47.5°	9849.0	7892.8	2600.4	1854.5	1973.2	2291.9	2298.7	2112.2	1980.0	1834.2	1813.8
50°	10761.0	8347.1	2258.0	1773.2	1902.0	2237.6	2247.8	2034.2	1861.3	1712.1	1698.6
52.5°	11635.7	8811.5	1973.2	1647.7	1854.5	2173.2	2197.0	1963.0	1763.0	1576.5	1586.7
55°	12076.5	8642.0	1729.1	1556.2	1746.0	2068.1	2156.3	1912.2	1613.8	1485.0	1481.6
57.5°	12174.8	8225.0	1535.8	1461.2	1654.5	1956.2	2088.5	1759.6	1546.0	1437.5	1424.0
60°	11852.7	7496.1	1383.3	1359.5	1539.2	1841.0	1932.5	1678.2	1478.2	1390.0	1369.7
62.5°	11059.3	6740.0	1278.2	1312.1	1440.9	1715.5	1834.2	1620.6	1413.8	1352.8	1308.7
65°	9069.2	5543.2	1193.4	1220.5	1339.2	1593.5	1773.2	1556.2	1356.1	1298.5	1295.1
67.5°	6282.3	3820.9	1125.6	1176.5	1257.8	1505.3	1712.1	1485.0	1281.6	1261.2	1234.1
70°	3217.4	2037.6	1037.4	1078.1	1169.7	1393.4	1603.6	1410.4	1203.6	1200.2	1166.3
72.5°	1630.8	1193.4	935.7	996.8	1061.2	1247.7	1468.0	1312.1	1105.3	1068.0	1013.7
73°	1410.4	1105.3	918.8	973.0	1034.1	1207.0	1427.3	1288.3	1091.7	1037.4	986.6
75°	1027.3	871.3	823.9	878.1	925.6	1088.3	1291.7	1179.8	1003.5	945.9	898.4
77.5°	769.6	671.3	684.9	745.9	786.6	939.1	1149.3	1068.0	908.6	830.6	810.3
80°	566.2	511.9	566.2	623.8	654.3	827.2	1047.6	925.6	766.2	678.1	661.1
82.5°	403.5	372.9	437.4	474.7	488.2	684.9	942.5	739.1	579.8	464.5	427.2
85°	230.5	227.2	295.0	291.6	301.7	400.1	620.4	491.6	372.9	284.8	278.0
87.5°	101.7	111.9	149.2	118.7	125.4	189.9	264.4	183.1	152.6	84.8	64.4
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)