

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: P478691

Luminaire Tested: **IFLD-L-SA7D-827-U-T4W**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478691  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7D-827-U-T4W  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens  
Light Source: (112) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

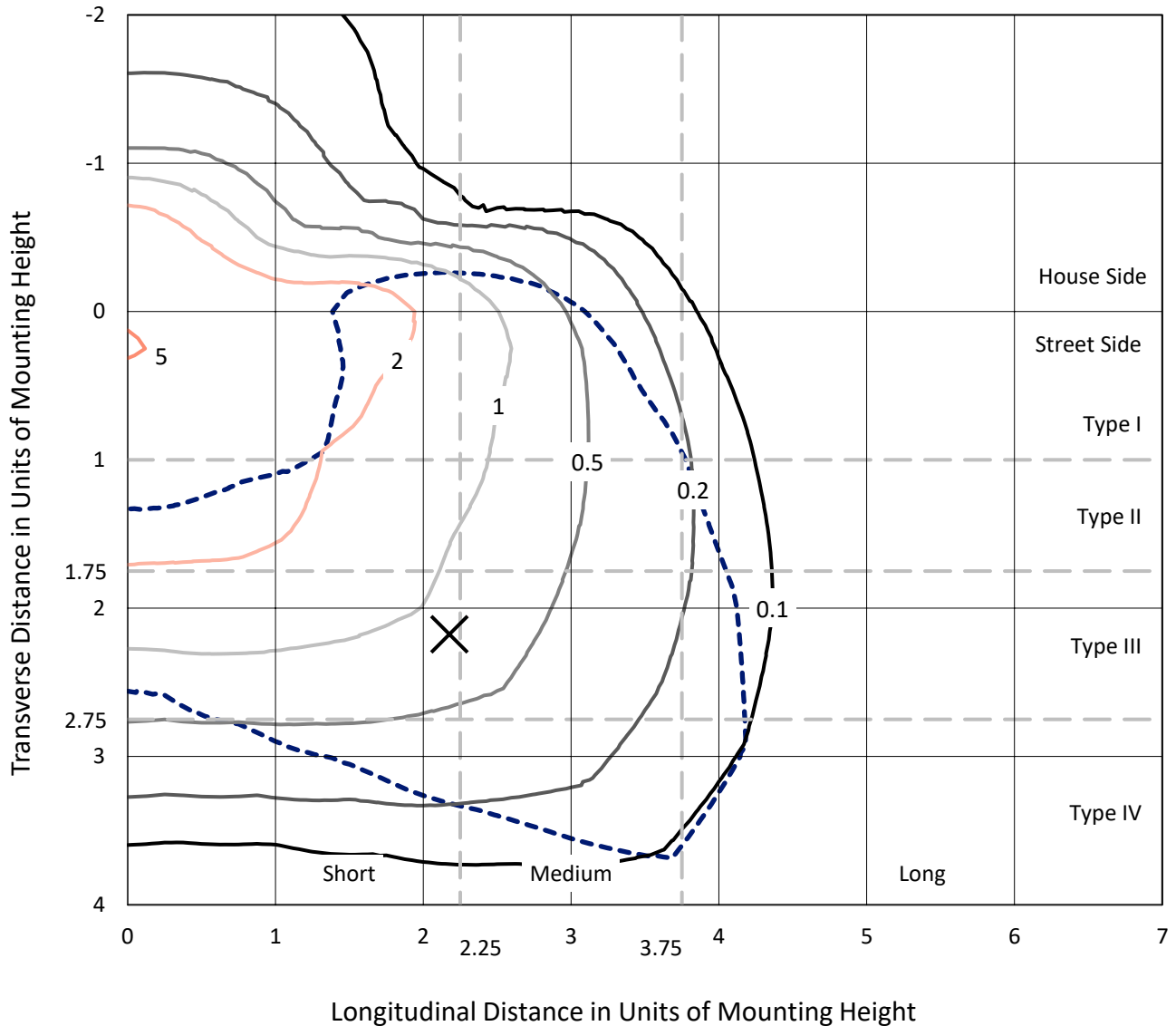
Lumens per Lamp: N/A  
Luminaire Lumens: 36244 lumens  
Efficiency: N/A  
Efficacy: 85.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 422.6  
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: P478691  
 CATALOG NUMBER: IFLD-L-SA7D-827-U-T4W

### Iso-Footcandle Lines of Horizontal Illumination

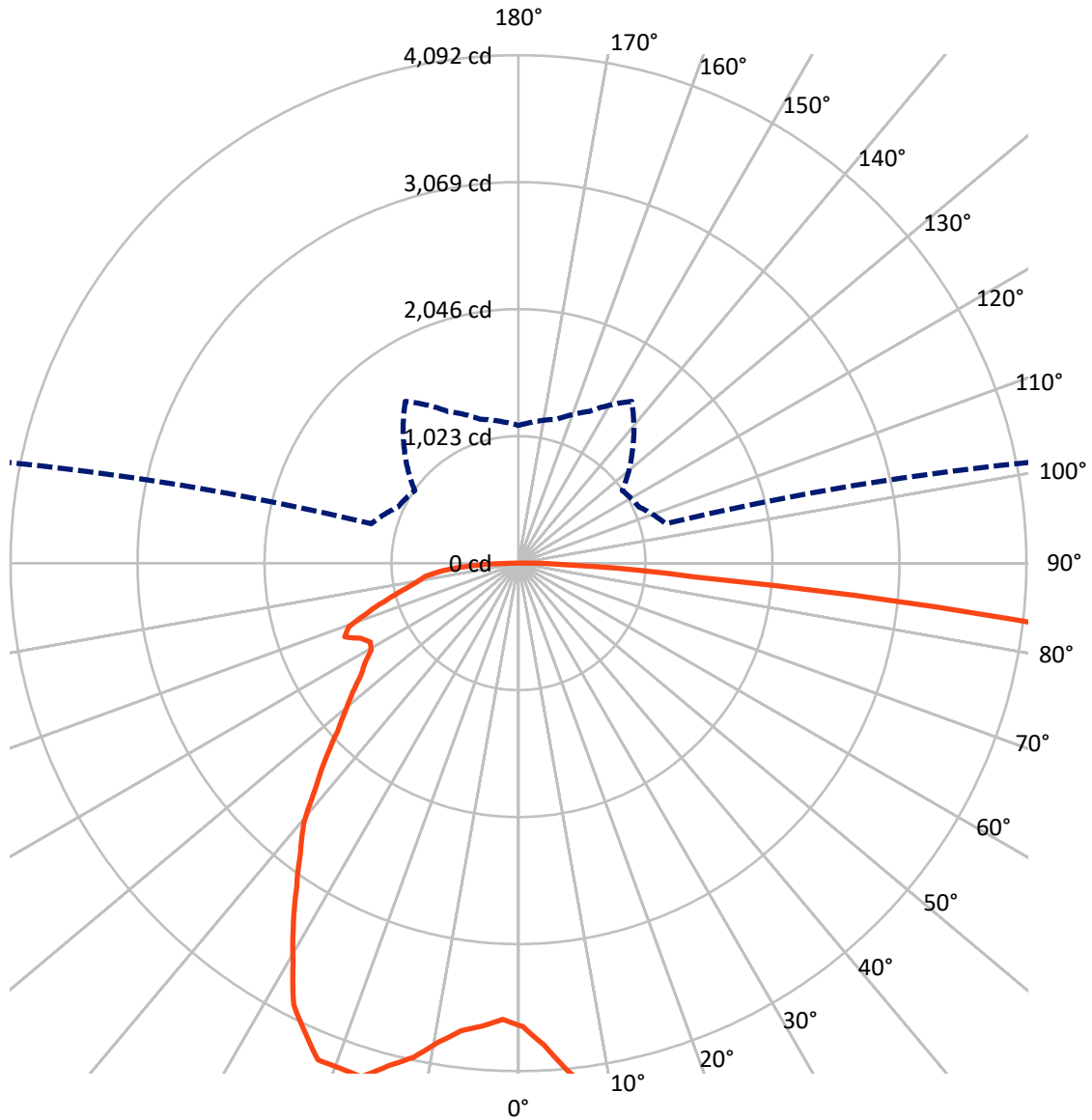
× Max cd  
 - - - 1/2 Max cd



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

REPORT NUMBER: P478691  
CATALOG NUMBER: IFLD-L-SA7D-827-U-T4W

### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 72-Deg Vertical

REPORT NUMBER: P478691

CATALOG NUMBER: IFLD-L-SA7D-827-U-T4W

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8068.1	0.0	8068.1
	% Fixture	22.3	0.0	22.3
<b>Street Side</b>	Lumens	28175.9	0.0	28175.9
	% Fixture	77.7	0.0	77.7
<b>Total</b>	Lumens	36244.0	0.0	36244.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	381.9	1.1
10°-20°	1270.7	3.5
20°-30°	2145.9	5.9
30°-40°	2969.6	8.2
40°-50°	4247.7	11.7
50°-60°	6851.1	18.9
60°-70°	10104.3	27.9
70°-80°	7337.5	20.2
80°-90°	935.3	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°	36244.0	100.0
0°-180°	36244.0	100.0

**Coefficient of Utilization**



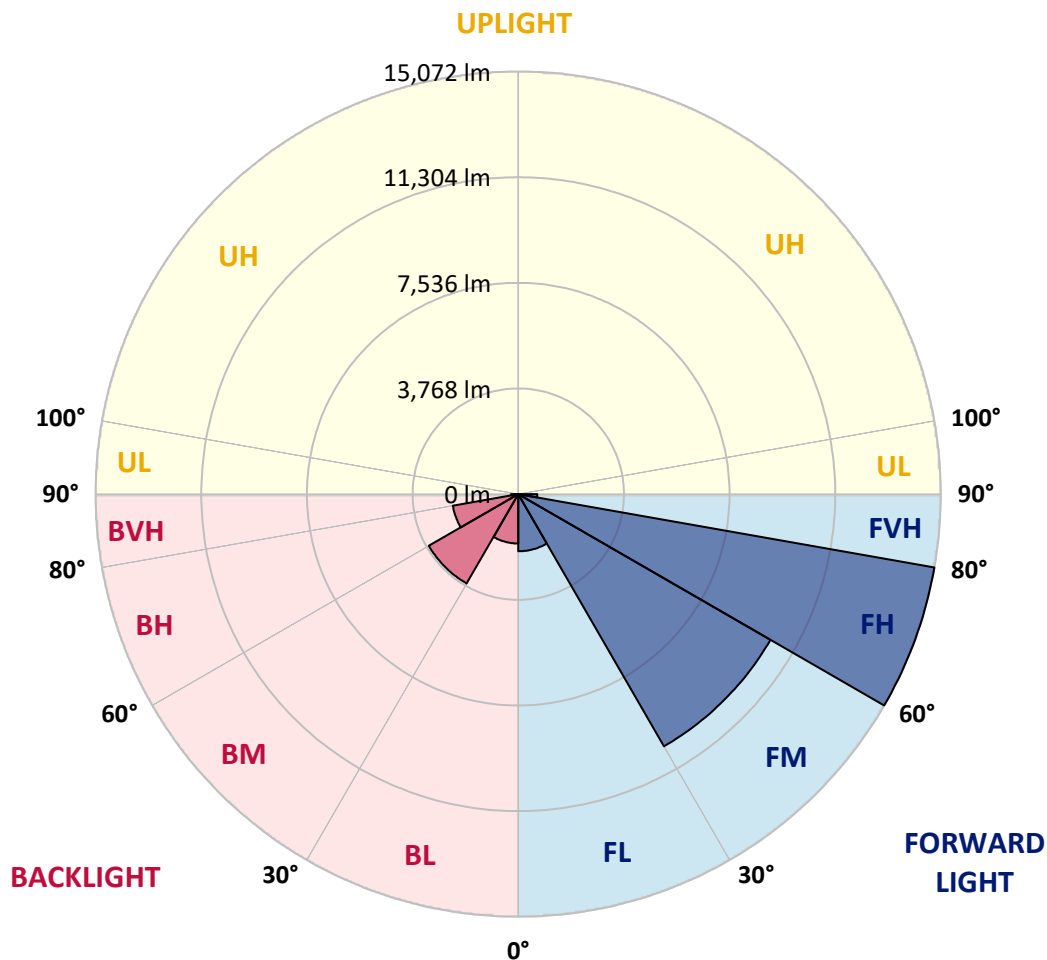
REPORT NUMBER: P478691  
 CATALOG NUMBER: IFLD-L-SA7D-827-U-T4W

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2036.9	5.6			
FM (30°-60°)	10386.3	28.7			
FH (60°-80°)	15071.9	41.6			G5
FVH (80°-90°)	680.8	1.9			G4/750
BL (0°-30°)	1761.6	4.9	B3/2500		
BM (30°-60°)	3682.0	10.2	B3/5000		
BH (60°-80°)	2369.9	6.5	B3/2500		G3/2500
BVH (80°-90°)	254.5	0.7			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





REPORT NUMBER: P478691

CATALOG NUMBER: IFLD-L-SA7D-827-U-T4W

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	3732.5	3732.5	3732.5	3732.5	3732.5	3732.5	3732.5	3732.5	3732.5	3732.5	3732.5
2.5°	3931.8	3955.3	3931.8	3927.9	3888.8	3861.5	3884.9	3849.7	3810.6	3795.0	3759.8
5°	4291.4	4295.3	4252.3	4256.2	4174.1	4088.1	4103.8	3998.2	3884.9	3841.9	3771.6
7.5°	4658.8	4615.8	4553.2	4533.7	4404.7	4310.9	4299.2	4205.4	4029.5	3931.8	3834.1
10°	4897.2	4912.8	4811.2	4725.2	4615.8	4502.4	4498.5	4322.6	4221.0	4076.4	3951.3
12.5°	5108.2	5112.1	5026.1	4889.4	4752.6	4611.9	4631.4	4553.2	4381.3	4244.5	4119.4
15°	5272.4	5248.9	5155.1	5030.1	4885.4	4776.0	4764.3	4697.8	4553.2	4439.9	4232.7
17.5°	5319.3	5307.5	5213.7	5080.9	4940.2	4858.1	4889.4	4779.9	4721.3	4619.7	4420.3
20°	5229.4	5202.0	5186.4	5037.9	4936.3	4928.4	4901.1	4924.5	4826.8	4733.0	4588.4
22.5°	5065.2	5053.5	5045.7	4928.4	4881.5	4916.7	4963.6	4998.8	4983.2	4893.3	4729.1
25°	4897.2	4951.9	4901.1	4846.4	4912.8	5002.7	4991.0	5104.3	5104.3	5077.0	4940.2
27.5°	5014.4	4979.2	4940.2	4912.8	4936.3	5077.0	5069.1	5205.9	5256.7	5205.9	5049.6
30°	5307.5	5272.4	5159.0	5037.9	5006.6	5159.0	5198.1	5319.3	5342.7	5217.7	5084.8
32.5°	5858.6	5839.1	5659.3	5303.6	5112.1	5198.1	5217.7	5354.4	5334.9	5256.7	5202.0
35°	6675.5	6609.0	6358.9	5757.0	5334.9	5248.9	5198.1	5307.5	5381.8	5342.7	5291.9
37.5°	7570.5	7496.2	7187.5	6425.3	5737.5	5385.7	5346.6	5436.5	5522.5	5503.0	5397.4
40°	8426.4	8426.4	8148.9	7261.7	6335.4	5717.9	5725.7	5624.1	5702.3	5667.1	5686.7
42.5°	9270.6	9239.4	9126.0	8242.7	6976.4	6272.9	6147.8	5893.8	6034.5	6022.8	6050.1
45°	10126.5	10103.1	10071.8	9157.3	7894.9	7023.3	6956.9	6499.6	6628.6	6573.9	6691.1
47.5°	10810.5	10837.9	10837.9	10177.4	8875.9	8023.9	7926.1	7203.1	7449.3	7476.7	7504.0
50°	11392.9	11404.6	11392.9	11150.5	9970.2	9169.0	8969.7	8234.9	8481.1	8696.1	8946.2
52.5°	12198.0	12213.6	12158.9	12065.1	11455.4	10372.8	10150.0	9333.2	9837.3	10064.0	10513.5
55°	13190.7	13073.4	12971.8	13042.2	12881.9	11697.7	11467.1	10466.6	11224.8	11525.7	12424.7
57.5°	13374.4	13476.0	13734.0	14292.9	14523.4	12987.5	12854.6	11857.9	12792.0	13053.9	14554.7
60°	14023.2	13855.1	14488.3	15699.9	15957.8	14668.1	14531.3	13382.2	14351.5	14625.1	16520.6
62.5°	14449.2	14441.4	15379.4	16817.7	17403.9	16411.2	16133.7	15363.7	16036.0	16301.7	18662.4
65°	14324.1	14437.5	16102.4	17474.3	18611.6	18392.7	18232.5	17067.8	17955.0	17931.5	20057.7
67.5°	13182.9	13503.4	15645.1	17947.2	20409.4	20808.1	20757.3	19463.6	19514.4	19018.1	20679.1
70°	11600.0	11490.6	13710.5	17454.7	21308.4	23672.9	23661.2	21245.8	20917.5	19256.5	18896.9
72°	8911.0	8789.9	10615.1	14988.5	20835.4	24818.1	25169.8	22480.9	20901.9	18267.7	15610.0
72.5°	8090.3	7984.8	9802.2	14109.2	20311.7	25115.1	24950.9	22527.8	20737.7	17802.6	14582.1
75°	3724.7	3603.5	4897.2	8637.5	15844.5	22254.2	22813.1	21081.7	18111.3	14171.7	8735.2
77.5°	1110.0	1074.8	1575.1	3486.3	9208.1	16395.5	16610.5	15907.0	12643.5	7762.0	3240.0
80°	617.5	621.4	812.9	1305.4	4049.1	9477.8	10251.6	9825.6	6202.6	2563.9	1078.7
82.5°	343.9	363.5	508.1	773.9	1860.4	4350.0	4682.2	4514.2	2243.4	1203.8	590.2
85°	179.8	187.6	265.8	414.3	1055.3	1375.7	1414.8	1516.4	1164.7	820.8	316.6
87.5°	70.4	70.4	97.7	172.0	390.8	426.0	383.0	465.1	668.3	531.5	156.3
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°	3732.5	3732.5	3732.5	3732.5	3732.5	3732.5	3732.5	3732.5	3732.5	3732.5	3732.5
2.5°	3791.1	3759.8	3755.9	3705.1	3720.8	3677.8	3681.7	3673.9	3677.8	3669.9	3650.4
5°	3771.6	3748.1	3681.7	3724.7	3685.6	3740.3	3783.3	3767.7	3779.4	3775.5	3779.4
7.5°	3798.9	3767.7	3759.8	3736.4	3771.6	3795.0	3830.2	3927.9	3920.1	3931.8	3955.3
10°	3881.0	3845.8	3822.4	3857.5	3838.0	3912.3	3951.3	4002.2	4092.0	4096.0	4049.1
12.5°	4041.2	4017.8	3970.9	3978.7	4045.1	4068.6	4092.0	4123.3	4181.9	4170.2	4213.2
15°	4224.9	4174.1	4146.8	4138.9	4154.6	4181.9	4178.0	4209.3	4240.6	4267.9	4256.2
17.5°	4357.8	4291.4	4299.2	4338.3	4334.4	4326.5	4275.7	4260.1	4275.7	4291.4	4283.6
20°	4494.6	4502.4	4443.8	4408.6	4393.0	4314.8	4275.7	4228.8	4181.9	4205.4	4240.6
22.5°	4666.6	4631.4	4545.4	4439.9	4361.7	4314.8	4193.7	4111.6	4111.6	4135.0	4123.3
25°	4862.0	4787.7	4639.2	4447.7	4350.0	4150.7	4064.7	4053.0	4021.7	4056.9	4072.5
27.5°	5014.4	4948.0	4744.7	4420.3	4150.7	3990.4	3939.6	3924.0	3974.8	3978.7	4041.2
30°	5077.0	5057.4	4760.4	4350.0	3947.4	3689.5	3658.2	3728.6	3783.3	3865.4	3869.3
32.5°	5159.0	5166.8	4783.8	4185.8	3681.7	3423.7	3376.8	3462.8	3619.1	3685.6	3736.4
35°	5295.8	5334.9	4764.3	3982.6	3400.3	3154.0	3146.2	3169.7	3322.1	3439.4	3505.8
37.5°	5534.2	5526.4	4760.4	3740.3	3177.5	2919.5	2857.0	2864.8	2966.4	3064.2	3052.4
40°	5854.7	5823.4	4748.7	3423.7	2888.3	2720.2	2614.7	2575.6	2567.8	2540.4	2548.2
42.5°	6292.5	6229.9	4744.7	3103.2	2626.4	2446.6	2372.4	2270.8	2196.5	2055.8	2063.6
45°	6902.2	6792.7	4643.1	2802.3	2368.5	2219.9	2106.6	2032.3	1872.1	1696.2	1696.2
47.5°	7844.1	7488.4	4647.0	2470.1	2118.3	1997.2	1919.0	1790.0	1618.1	1477.4	1461.7
50°	9231.5	8418.6	4514.2	2208.2	1915.1	1833.0	1750.9	1602.4	1438.3	1340.6	1352.3
52.5°	11021.6	9806.1	4510.2	1973.7	1754.9	1696.2	1606.3	1473.4	1352.3	1289.8	1266.3
55°	13155.5	11643.0	4650.9	1782.2	1590.7	1559.4	1520.4	1410.9	1293.7	1238.9	1235.0
57.5°	15340.3	13436.9	4877.6	1645.4	1450.0	1473.4	1446.1	1360.1	1266.3	1203.8	1196.0
60°	17282.7	14859.6	4420.3	1481.3	1324.9	1375.7	1414.8	1340.6	1289.8	1285.8	1258.5
62.5°	18748.4	15469.3	3361.2	1356.2	1258.5	1352.3	1457.8	1504.7	1481.3	1512.5	1516.4
65°	19283.8	15101.9	2313.7	1289.8	1207.7	1407.0	1641.5	1625.9	1489.1	1430.5	1461.7
67.5°	18533.4	13612.8	1715.8	1211.6	1172.5	1520.4	1747.0	1551.6	1344.5	1336.7	1313.2
70°	15938.3	11537.5	1399.2	1129.5	1113.9	1457.8	1700.1	1438.3	1266.3	1215.5	1192.0
72°	12698.2	8985.3	1227.2	1070.9	1020.1	1301.5	1590.7	1348.4	1199.9	1137.3	1110.0
72.5°	11592.2	8328.7	1203.8	1043.5	1000.5	1266.3	1536.0	1321.0	1184.2	1129.5	1086.5
75°	6358.9	4264.0	1059.2	957.5	844.2	1094.3	1422.6	1238.9	1117.8	1039.6	1031.8
77.5°	2364.6	1653.2	914.6	848.1	730.9	945.8	1293.7	1176.4	1016.2	918.5	898.9
80°	906.7	871.6	746.5	715.2	613.6	828.6	1192.0	1055.3	863.7	766.0	734.8
82.5°	551.1	508.1	566.7	558.9	469.0	754.3	1121.7	988.8	766.0	621.4	601.9
85°	300.9	300.9	394.7	379.1	328.3	601.9	848.1	656.6	484.6	398.7	406.5
87.5°	132.9	156.3	211.1	199.3	179.8	340.0	414.3	347.8	242.3	164.2	175.9
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)