

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: P478695

Luminaire Tested: **IFLD-L-SA8C-827-U-T4W**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478695  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8C-827-U-T4W  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens  
Light Source: (128) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

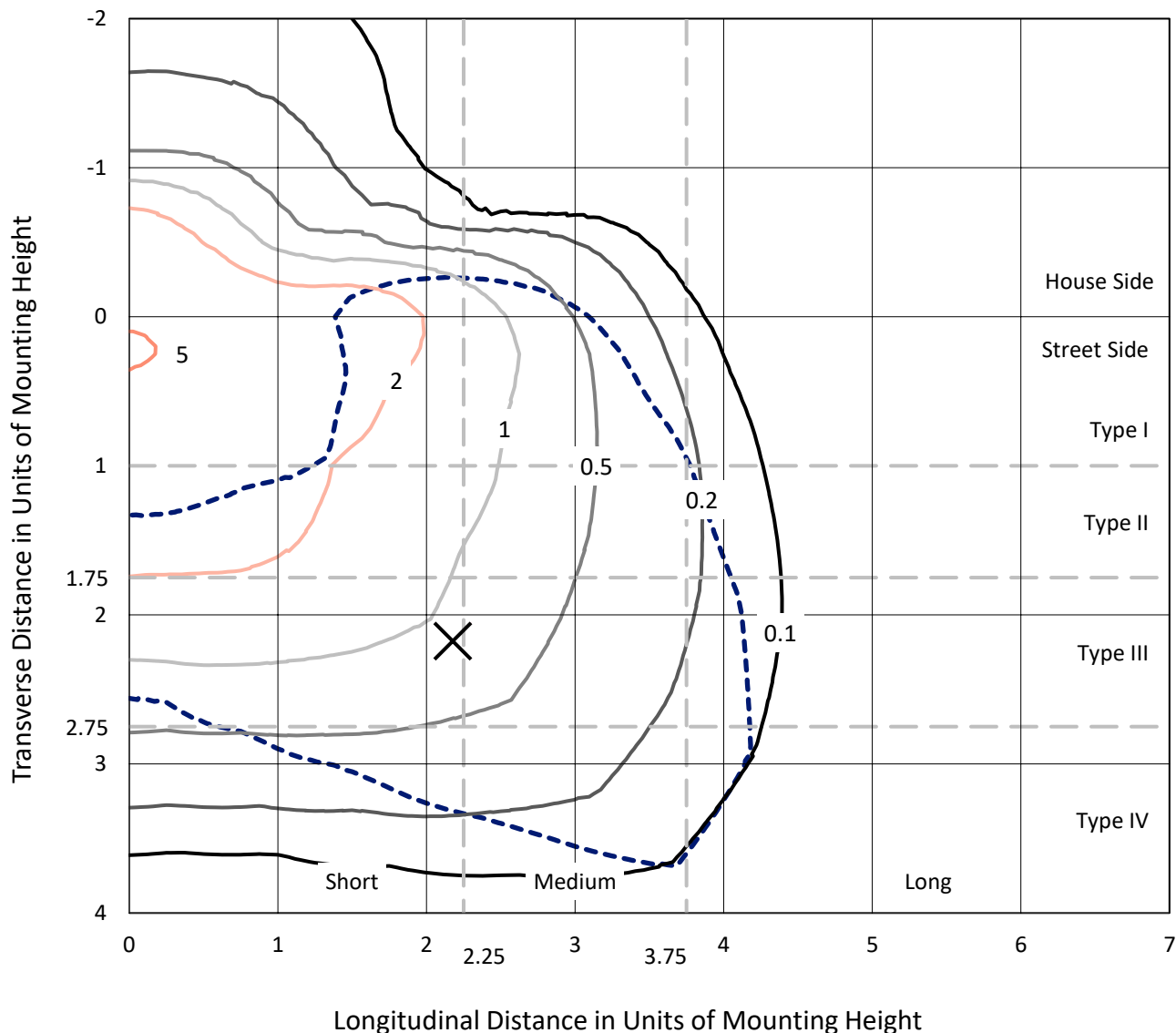
Lumens per Lamp: N/A  
Luminaire Lumens: 37644.6 lumens  
Efficiency: N/A  
Efficacy: 89.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 420.3  
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

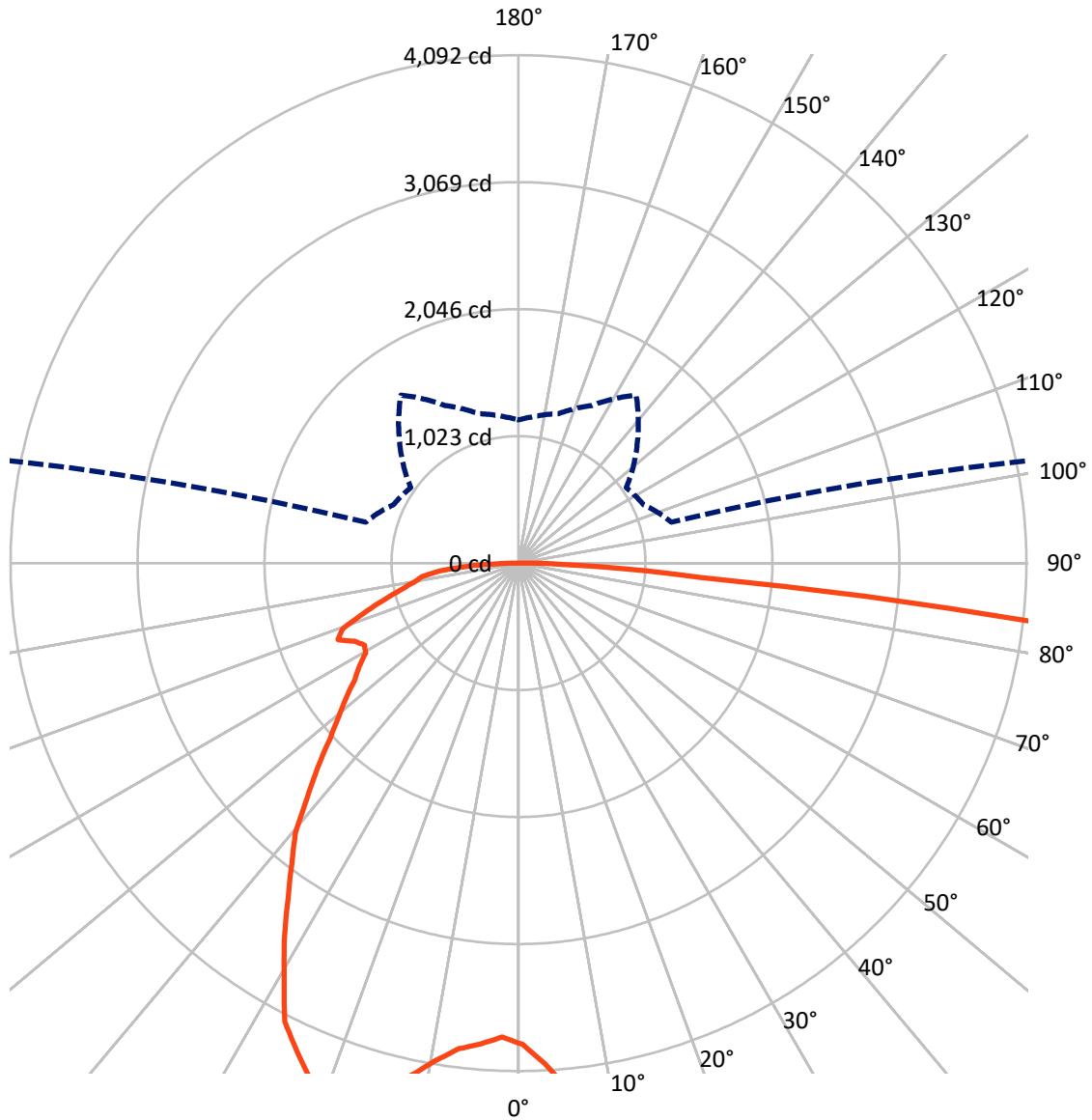
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.5 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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

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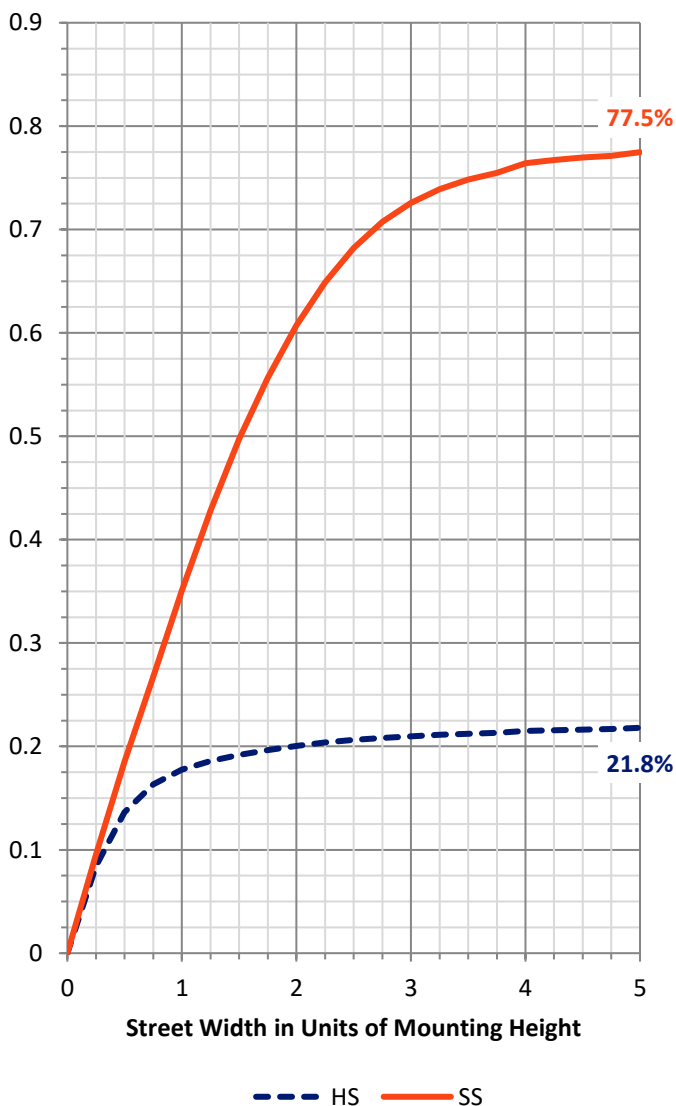
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8379.9	0.0	8379.9
	% Fixture	22.3	0.0	22.3
<b>Street Side</b>	Lumens	29264.7	0.0	29264.7
	% Fixture	77.7	0.0	77.7
<b>Total</b>	Lumens	37644.6	0.0	37644.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	396.7	1.1
10°-20°	1319.8	3.5
20°-30°	2228.8	5.9
30°-40°	3084.3	8.2
40°-50°	4411.8	11.7
50°-60°	7115.8	18.9
60°-70°	10494.8	27.9
70°-80°	7621.0	20.2
80°-90°	971.5	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°	37644.6	100.0
0°-180°	37644.6	100.0

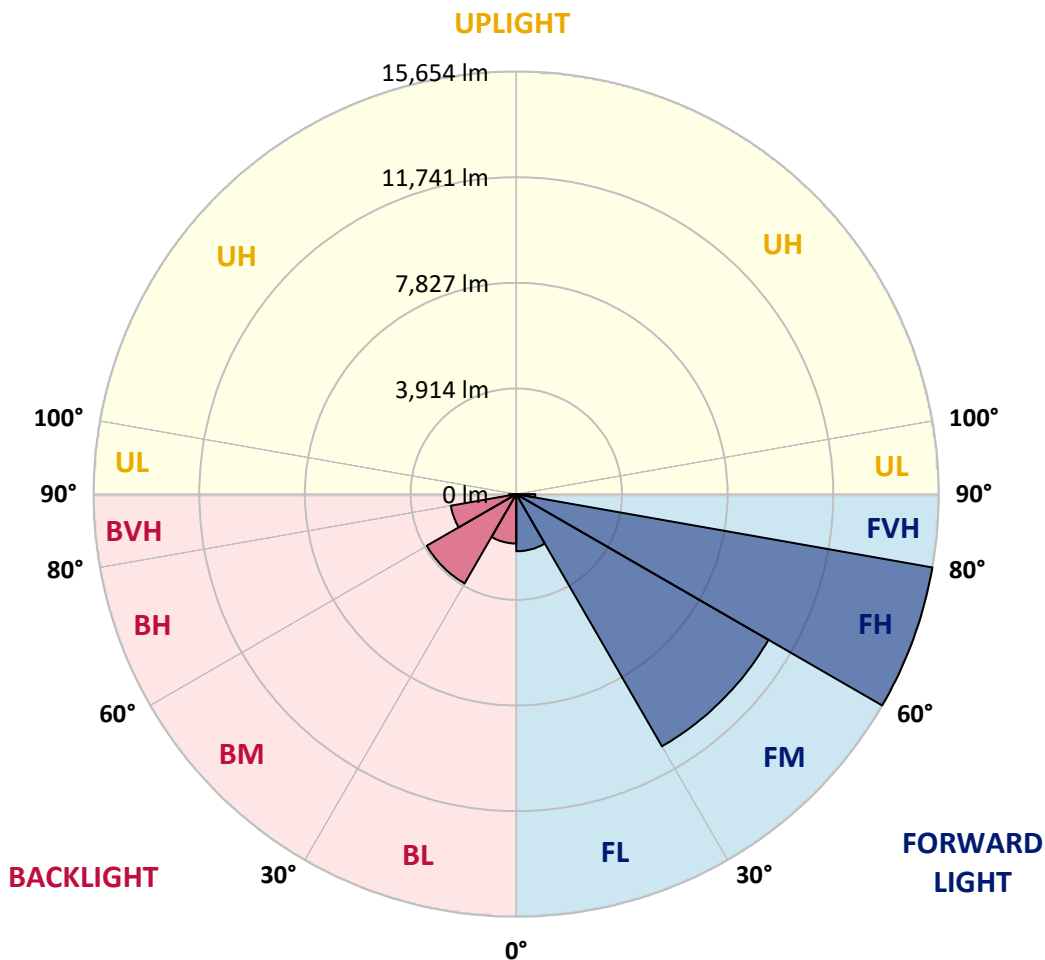


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2115.6	5.6			
FM (30°-60°)	10787.6	28.7			
FH (60°-80°)	15654.3	41.6			G5
FVH (80°-90°)	707.1	1.9			G4/750
BL (0°-30°)	1829.7	4.9	B3/2500		
BM (30°-60°)	3824.3	10.2	B3/5000		
BH (60°-80°)	2461.5	6.5	B3/2500		G3/2500
BVH (80°-90°)	264.4	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	3876.7	3876.7	3876.7	3876.7	3876.7	3876.7	3876.7	3876.7	3876.7	3876.7	3876.7
2.5°	4083.7	4108.1	4083.7	4079.7	4039.1	4010.7	4035.0	3998.5	3957.9	3941.7	3905.1
5°	4457.2	4461.3	4416.6	4420.7	4335.4	4246.1	4262.3	4152.7	4035.0	3990.4	3917.3
7.5°	4838.8	4794.1	4729.2	4708.9	4574.9	4477.5	4465.3	4367.9	4185.2	4083.7	3982.3
10°	5086.4	5102.6	4997.1	4907.8	4794.1	4676.4	4672.3	4489.7	4384.1	4233.9	4104.0
12.5°	5305.6	5309.7	5220.4	5078.3	4936.2	4790.1	4810.4	4729.2	4550.6	4408.5	4278.6
15°	5476.1	5451.7	5354.3	5224.4	5074.2	4960.6	4948.4	4879.4	4729.2	4611.5	4396.3
17.5°	5524.8	5512.6	5415.2	5277.2	5131.1	5045.8	5078.3	4964.6	4903.7	4798.2	4591.2
20°	5431.5	5403.0	5386.8	5232.5	5127.0	5118.9	5090.5	5114.8	5013.3	4915.9	4765.7
22.5°	5261.0	5248.8	5240.7	5118.9	5070.2	5106.7	5155.4	5191.9	5175.7	5082.3	4911.9
25°	5086.4	5143.2	5090.5	5033.6	5102.6	5196.0	5183.8	5301.6	5301.6	5273.1	5131.1
27.5°	5208.2	5171.7	5131.1	5102.6	5127.0	5273.1	5265.0	5407.1	5459.9	5407.1	5244.7
30°	5512.6	5476.1	5358.4	5232.5	5200.1	5358.4	5399.0	5524.8	5549.2	5419.3	5281.3
32.5°	6085.0	6064.7	5878.0	5508.6	5309.7	5399.0	5419.3	5561.4	5541.1	5459.9	5403.0
35°	6933.4	6864.4	6604.6	5979.5	5541.1	5451.7	5399.0	5512.6	5589.8	5549.2	5496.4
37.5°	7863.0	7785.9	7465.2	6673.6	5959.2	5593.8	5553.2	5646.6	5735.9	5715.6	5606.0
40°	8752.0	8752.0	8463.8	7542.3	6580.3	5938.9	5947.0	5841.4	5922.6	5886.1	5906.4
42.5°	9628.8	9596.4	9478.7	8561.2	7246.0	6515.3	6385.4	6121.5	6267.7	6255.5	6283.9
45°	10517.9	10493.5	10461.0	9511.1	8199.9	7294.7	7225.7	6750.7	6884.7	6827.9	6949.7
47.5°	11228.2	11256.7	11256.7	10570.6	9218.9	8333.9	8232.4	7481.4	7737.2	7765.6	7794.0
50°	11833.1	11845.3	11833.1	11581.4	10355.5	9523.3	9316.3	8553.1	8808.9	9032.1	9291.9
52.5°	12669.3	12685.6	12628.7	12531.3	11898.0	10773.6	10542.2	9693.8	10217.5	10452.9	10919.7
55°	13700.4	13578.6	13473.1	13546.2	13379.7	12149.7	11910.2	10871.0	11658.5	11971.1	12904.8
57.5°	13891.2	13996.7	14264.7	14845.2	15084.7	13489.3	13351.3	12316.2	13286.4	13558.3	15117.1
60°	14565.1	14390.5	15048.1	16306.5	16574.4	15234.9	15092.8	13899.3	14906.0	15190.2	17159.0
62.5°	15007.5	14999.4	15973.7	17467.5	18076.4	17045.3	16757.1	15957.4	16655.6	16931.7	19383.5
65°	14877.6	14995.4	16724.6	18149.5	19330.8	19103.4	18937.0	17727.3	18648.8	18624.4	20832.7
67.5°	13692.3	14025.2	16249.7	18640.7	21198.1	21612.1	21559.4	20215.7	20268.5	19752.9	21478.2
70°	12048.2	11934.6	14240.3	18129.2	22131.7	24587.7	24575.5	22066.8	21725.8	20000.6	19627.1
72°	9255.4	9129.5	11025.3	15567.7	21640.6	25777.1	26142.4	23349.6	21709.6	18973.5	16213.2
72.5°	8402.9	8293.3	10180.9	14654.4	21096.6	26085.6	25915.1	23398.3	21539.1	18490.5	15145.5
75°	3868.6	3742.7	5086.4	8971.2	16456.7	23114.1	23694.6	21896.3	18811.2	14719.3	9072.7
77.5°	1152.9	1116.3	1635.9	3621.0	9563.9	17029.1	17252.4	16521.7	13132.1	8061.9	3365.2
80°	641.4	645.4	844.4	1355.8	4205.5	9844.0	10647.8	10205.3	6442.2	2663.0	1120.4
82.5°	357.2	377.5	527.7	803.8	1932.3	4518.1	4863.1	4688.6	2330.1	1250.3	613.0
85°	186.7	194.9	276.0	430.3	1096.0	1428.9	1469.5	1575.0	1209.7	852.5	328.8
87.5°	73.1	73.1	101.5	178.6	405.9	442.5	397.8	483.1	694.2	552.1	162.4
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°	3876.7	3876.7	3876.7	3876.7	3876.7	3876.7	3876.7	3876.7	3876.7	3876.7	3876.7
2.5°	3937.6	3905.1	3901.1	3848.3	3864.5	3819.9	3823.9	3815.8	3819.9	3811.8	3791.5
5°	3917.3	3892.9	3823.9	3868.6	3828.0	3884.8	3929.5	3913.2	3925.4	3921.4	3925.4
7.5°	3945.7	3913.2	3905.1	3880.8	3917.3	3941.7	3978.2	4079.7	4071.6	4083.7	4108.1
10°	4031.0	3994.4	3970.1	4006.6	3986.3	4063.4	4104.0	4156.8	4250.2	4254.2	4205.5
12.5°	4197.4	4173.0	4124.3	4132.4	4201.5	4225.8	4250.2	4282.6	4343.5	4331.4	4376.0
15°	4388.2	4335.4	4307.0	4298.9	4315.1	4343.5	4339.5	4372.0	4404.4	4432.8	4420.7
17.5°	4526.2	4457.2	4465.3	4505.9	4501.9	4493.7	4441.0	4424.7	4441.0	4457.2	4449.1
20°	4668.3	4676.4	4615.5	4579.0	4562.7	4481.6	4441.0	4392.2	4343.5	4367.9	4404.4
22.5°	4846.9	4810.4	4721.1	4611.5	4530.3	4481.6	4355.7	4270.5	4270.5	4294.8	4282.6
25°	5049.9	4972.7	4818.5	4619.6	4518.1	4311.1	4221.8	4209.6	4177.1	4213.6	4229.9
27.5°	5208.2	5139.2	4928.1	4591.2	4311.1	4144.6	4091.9	4075.6	4128.4	4132.4	4197.4
30°	5273.1	5252.8	4944.3	4518.1	4100.0	3832.1	3799.6	3872.6	3929.5	4014.7	4018.8
32.5°	5358.4	5366.5	4968.7	4347.6	3823.9	3556.0	3507.3	3596.6	3759.0	3828.0	3880.8
35°	5500.5	5541.1	4948.4	4136.5	3531.7	3275.9	3267.8	3292.2	3450.5	3572.3	3641.3
37.5°	5748.1	5740.0	4944.3	3884.8	3300.3	3032.4	2967.4	2975.5	3081.1	3182.6	3170.4
40°	6081.0	6048.5	4932.1	3556.0	2999.9	2825.3	2715.7	2675.1	2667.0	2638.6	2646.7
42.5°	6535.6	6470.7	4928.1	3223.1	2727.9	2541.2	2464.0	2358.5	2281.4	2135.2	2143.4
45°	7168.9	7055.2	4822.5	2910.6	2460.0	2305.7	2188.0	2110.9	1944.4	1761.8	1761.8
47.5°	8147.2	7777.8	4826.6	2565.5	2200.2	2074.3	1993.2	1859.2	1680.6	1534.4	1518.2
50°	9588.3	8743.9	4688.6	2293.5	1989.1	1903.8	1818.6	1664.3	1493.9	1392.4	1404.5
52.5°	11447.5	10185.0	4684.5	2050.0	1822.7	1761.8	1668.4	1530.4	1404.5	1339.6	1315.2
55°	13663.9	12092.9	4830.7	1851.1	1652.2	1619.7	1579.1	1465.4	1343.7	1286.8	1282.8
57.5°	15933.1	13956.1	5066.1	1709.0	1506.0	1530.4	1502.0	1412.7	1315.2	1250.3	1242.2
60°	17950.6	15433.8	4591.2	1538.5	1376.1	1428.9	1469.5	1392.4	1339.6	1335.5	1307.1
62.5°	19472.8	16067.0	3491.1	1408.6	1307.1	1404.5	1514.1	1562.9	1538.5	1571.0	1575.0
65°	20029.0	15685.4	2403.2	1339.6	1254.3	1461.4	1704.9	1688.7	1546.6	1485.7	1518.2
67.5°	19249.6	14138.8	1782.1	1258.4	1217.8	1579.1	1814.5	1611.6	1396.4	1388.3	1364.0
70°	16554.2	11983.3	1453.3	1173.2	1156.9	1514.1	1765.8	1493.9	1315.2	1262.5	1238.1
72°	13188.9	9332.5	1274.6	1112.3	1059.5	1351.8	1652.2	1400.5	1246.2	1181.3	1152.9
72.5°	12040.1	8650.5	1250.3	1083.9	1039.2	1315.2	1595.3	1372.1	1230.0	1173.2	1128.5
75°	6604.6	4428.8	1100.1	994.5	876.8	1136.6	1477.6	1286.8	1161.0	1079.8	1071.7
77.5°	2455.9	1717.1	949.9	880.9	759.1	982.4	1343.7	1221.9	1055.4	954.0	933.7
80°	941.8	905.2	775.3	742.9	637.3	860.6	1238.1	1096.0	897.1	795.6	763.2
82.5°	572.4	527.7	588.6	580.5	487.1	783.5	1165.0	1027.0	795.6	645.4	625.1
85°	312.6	312.6	410.0	393.8	341.0	625.1	880.9	682.0	503.4	414.1	422.2
87.5°	138.0	162.4	219.2	207.0	186.7	353.2	430.3	361.3	251.7	170.5	182.7
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)