

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: P478418

Luminaire Tested: **IFLD-L-SA7D-722-U-T4W**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478418  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7D-722-U-T4W  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens  
Light Source: (112) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

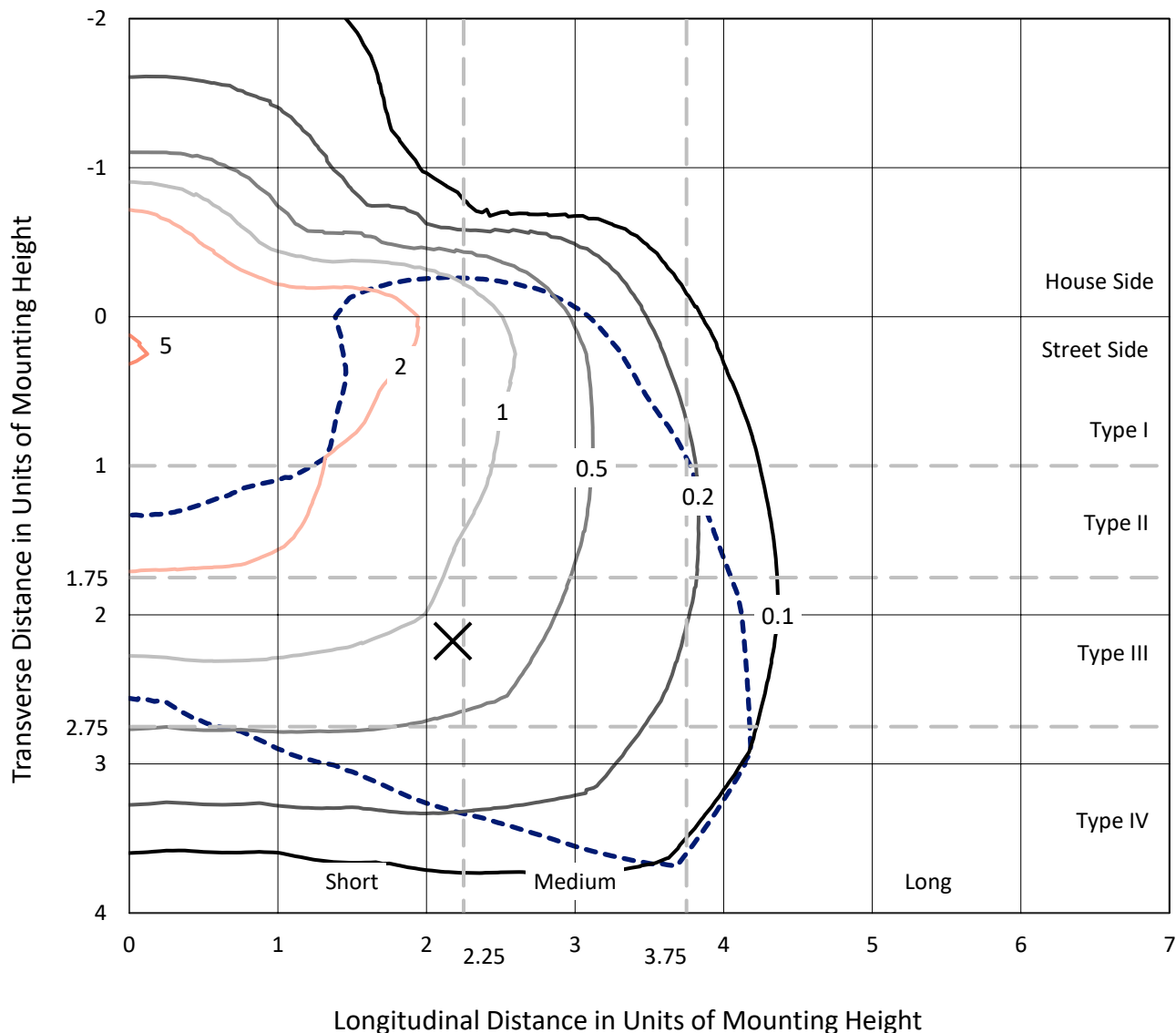
Lumens per Lamp: N/A  
Luminaire Lumens: 36318 lumens  
Efficiency: N/A  
Efficacy: 85.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

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

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### Iso-Footcandle Lines of Horizontal Illumination

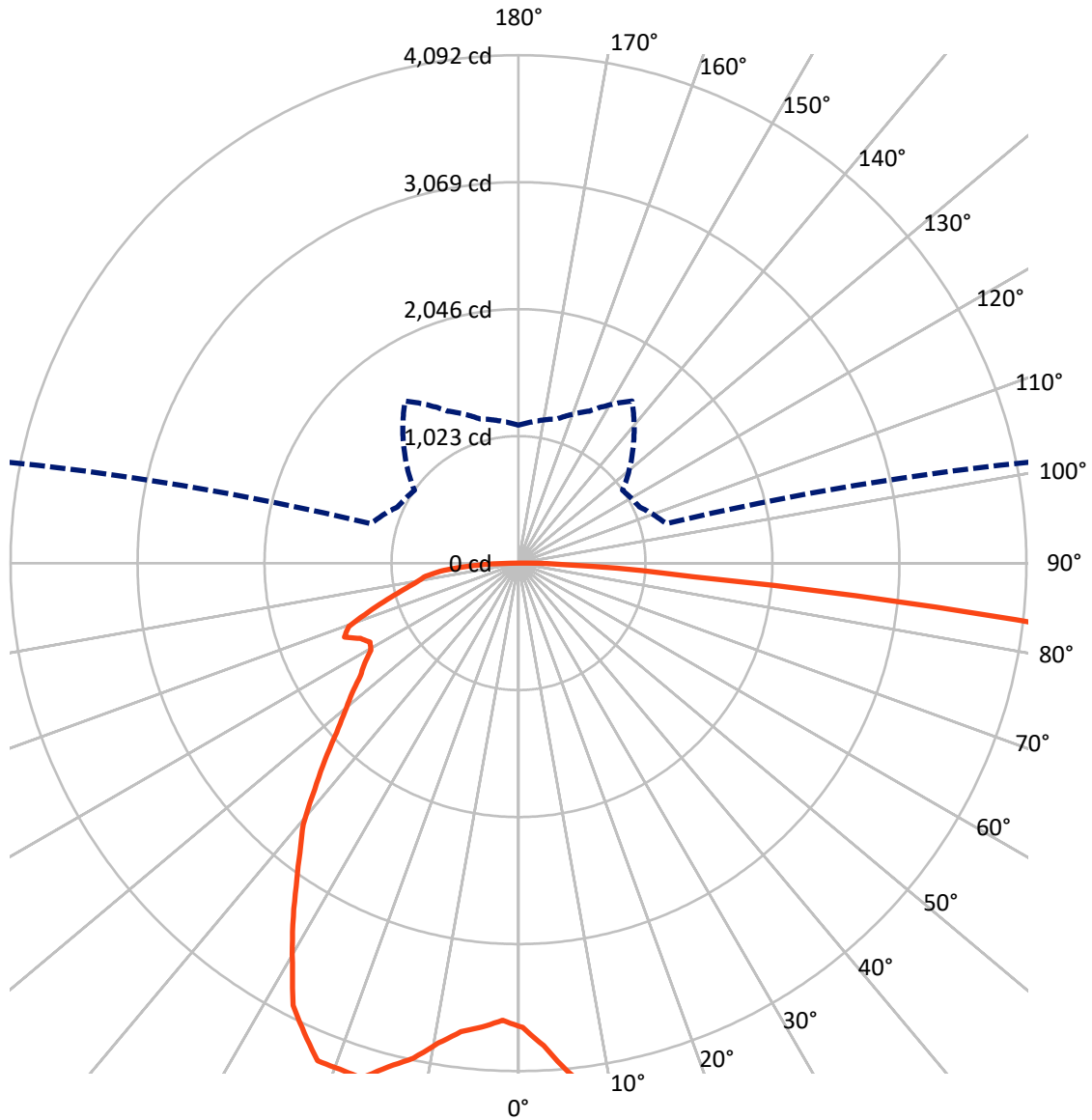
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.3 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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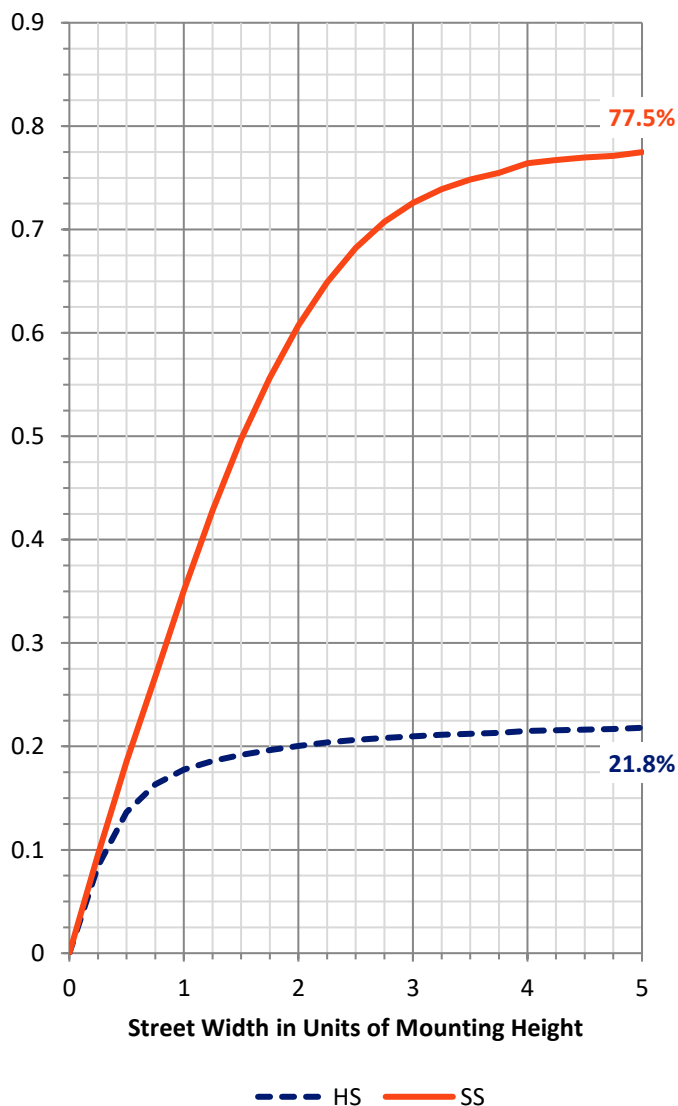
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8084.6	0.0	8084.6
	% Fixture	22.3	0.0	22.3
<b>Street Side</b>	Lumens	28233.4	0.0	28233.4
	% Fixture	77.7	0.0	77.7
<b>Total</b>	Lumens	36318.0	0.0	36318.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	382.7	1.1
10°-20°	1273.3	3.5
20°-30°	2150.3	5.9
30°-40°	2975.6	8.2
40°-50°	4256.4	11.7
50°-60°	6865.0	18.9
60°-70°	10124.9	27.9
70°-80°	7352.5	20.2
80°-90°	937.3	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°	36318.0	100.0
0°-180°	36318.0	100.0

**Coefficient of Utilization**

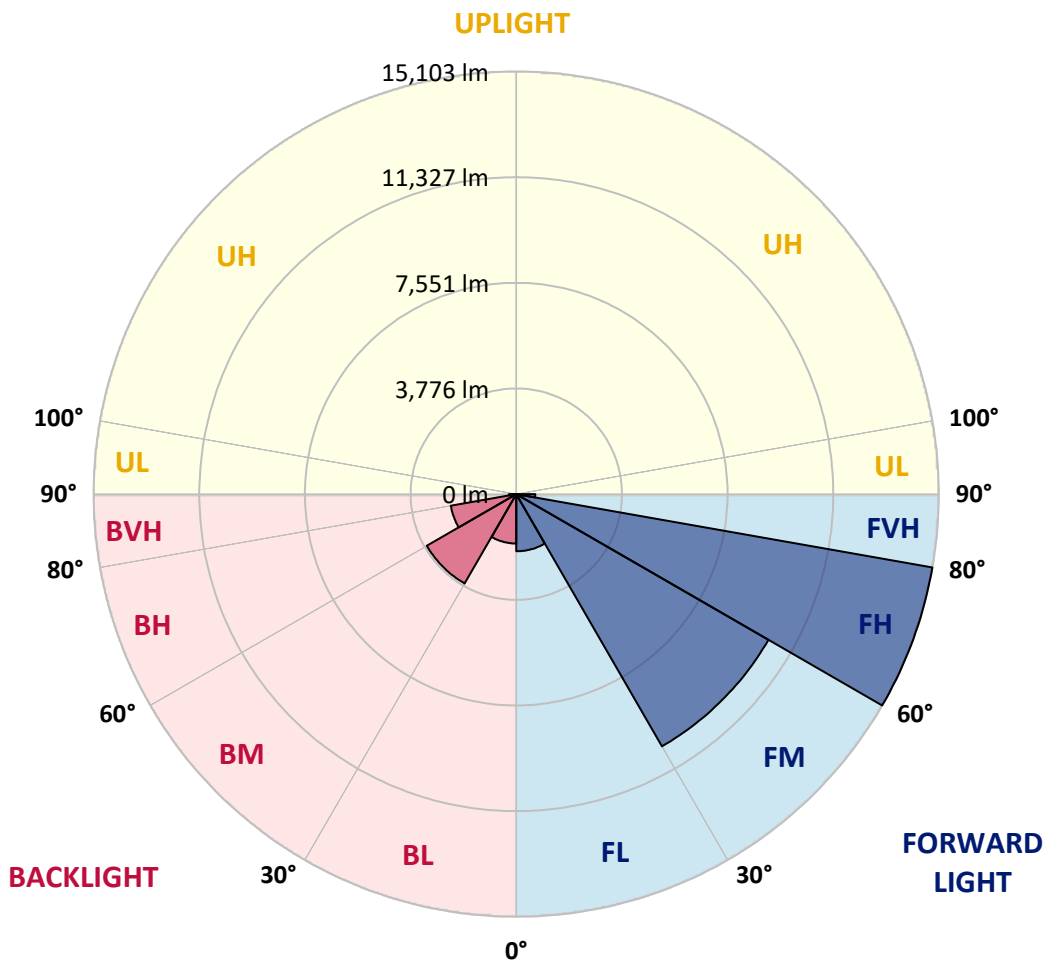


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2041.1	5.6			
FM (30°-60°)	10407.5	28.7			
FH (60°-80°)	15102.6	41.6			G5
FVH (80°-90°)	682.2	1.9			G4/750
BL (0°-30°)	1765.2	4.9	B3/2500		
BM (30°-60°)	3689.6	10.2	B3/5000		
BH (60°-80°)	2374.7	6.5	B3/2500		G3/2500
BVH (80°-90°)	255.1	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°	3740.1	3740.1	3740.1	3740.1	3740.1	3740.1	3740.1	3740.1	3740.1	3740.1	3740.1
2.5°	3939.8	3963.3	3939.8	3935.9	3896.7	3869.3	3892.8	3857.6	3818.4	3802.8	3767.5
5°	4300.1	4304.0	4261.0	4264.9	4182.6	4096.5	4112.1	4006.4	3892.8	3849.8	3779.3
7.5°	4668.3	4625.2	4562.5	4542.9	4413.7	4319.7	4308.0	4214.0	4037.7	3939.8	3841.9
10°	4907.2	4922.8	4821.0	4734.8	4625.2	4511.6	4507.7	4331.5	4229.6	4084.7	3959.4
12.5°	5118.6	5122.6	5036.4	4899.3	4762.3	4621.3	4640.9	4562.5	4390.2	4253.1	4127.8
15°	5283.1	5259.6	5165.6	5040.3	4895.4	4785.8	4774.0	4707.4	4562.5	4449.0	4241.4
17.5°	5330.1	5318.4	5224.4	5091.2	4950.2	4868.0	4899.3	4789.7	4730.9	4629.1	4429.4
20°	5240.0	5212.6	5197.0	5048.1	4946.3	4938.5	4911.1	4934.6	4836.7	4742.7	4597.8
22.5°	5075.6	5063.8	5056.0	4938.5	4891.5	4926.7	4973.7	5009.0	4993.3	4903.2	4738.8
25°	4907.2	4962.0	4911.1	4856.2	4922.8	5012.9	5001.2	5114.7	5114.7	5087.3	4950.2
27.5°	5024.7	4989.4	4950.2	4922.8	4946.3	5087.3	5079.5	5216.6	5267.5	5216.6	5059.9
30°	5318.4	5283.1	5169.6	5048.1	5016.8	5169.6	5208.7	5330.1	5353.6	5228.3	5095.1
32.5°	5870.6	5851.0	5670.8	5314.5	5122.6	5208.7	5228.3	5365.4	5345.8	5267.5	5212.6
35°	6689.1	6622.5	6371.9	5768.8	5345.8	5259.6	5208.7	5318.4	5392.8	5353.6	5302.7
37.5°	7585.9	7511.5	7202.1	6438.4	5749.2	5396.7	5357.5	5447.6	5533.8	5514.2	5408.5
40°	8443.6	8443.6	8165.5	7276.5	6348.4	5729.6	5737.4	5635.6	5713.9	5678.7	5698.3
42.5°	9289.5	9258.2	9144.6	8259.5	6990.6	6285.7	6160.4	5905.8	6046.8	6035.1	6062.5
45°	10147.2	10123.7	10092.4	9176.0	7911.0	7037.6	6971.1	6512.9	6642.1	6587.3	6704.8
47.5°	10832.6	10860.0	10860.0	10198.1	8894.0	8040.2	7942.3	7217.8	7464.5	7491.9	7519.4
50°	11416.1	11427.9	11416.1	11173.3	9990.6	9187.7	8988.0	8251.7	8498.4	8713.8	8964.5
52.5°	12222.9	12238.5	12183.7	12089.7	11478.8	10393.9	10170.7	9352.2	9857.4	10084.6	10534.9
55°	13217.6	13100.1	12998.3	13068.8	12908.2	11721.6	11490.5	10487.9	11247.7	11549.3	12450.0
57.5°	13401.7	13503.5	13762.0	14322.0	14553.1	13014.0	12880.8	11882.1	12818.1	13080.5	14584.4
60°	14051.8	13883.4	14517.8	15731.9	15990.4	14698.0	14560.9	13409.5	14380.8	14654.9	16554.3
62.5°	14478.7	14470.8	15410.8	16852.0	17439.4	16444.7	16166.6	15395.1	16068.7	16335.0	18700.5
65°	14353.4	14466.9	16135.3	17509.9	18649.6	18430.2	18269.7	17102.6	17991.6	17968.1	20098.6
67.5°	13209.8	13530.9	15677.1	17983.8	20451.1	20850.5	20799.6	19503.3	19554.2	19056.9	20721.3
70°	11623.7	11514.0	13738.5	17490.3	21351.8	23721.2	23709.5	21289.2	20960.2	19295.8	18935.5
72°	8929.2	8807.8	10636.8	15019.1	20878.0	24868.7	25221.2	22526.7	20944.5	18304.9	15641.8
72.5°	8106.8	8001.1	9822.2	14138.0	20353.2	25166.3	25001.9	22573.7	20780.0	17838.9	14611.8
75°	3732.3	3610.9	4907.2	8655.1	15876.8	22299.6	22859.6	21124.7	18148.3	14200.6	8753.0
77.5°	1112.2	1077.0	1578.3	3493.4	9226.9	16429.0	16644.4	15939.5	12669.3	7777.8	3246.6
80°	618.8	622.7	814.6	1308.1	4057.3	9497.1	10272.5	9845.7	6215.2	2569.1	1080.9
82.5°	344.6	364.2	509.1	775.4	1864.2	4358.9	4691.8	4523.4	2248.0	1206.2	591.4
85°	180.2	188.0	266.3	415.1	1057.4	1378.5	1417.7	1519.5	1167.1	822.4	317.2
87.5°	70.5	70.5	97.9	172.3	391.6	426.9	383.8	466.0	669.7	532.6	156.7
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°	3740.1	3740.1	3740.1	3740.1	3740.1	3740.1	3740.1	3740.1	3740.1	3740.1	3740.1
2.5°	3798.8	3767.5	3763.6	3712.7	3728.3	3685.3	3689.2	3681.4	3685.3	3677.4	3657.9
5°	3779.3	3755.8	3689.2	3732.3	3693.1	3747.9	3791.0	3775.3	3787.1	3783.2	3787.1
7.5°	3806.7	3775.3	3767.5	3744.0	3779.3	3802.8	3838.0	3935.9	3928.1	3939.8	3963.3
10°	3888.9	3853.7	3830.2	3865.4	3845.8	3920.2	3959.4	4010.3	4100.4	4104.3	4057.3
12.5°	4049.5	4026.0	3979.0	3986.8	4053.4	4076.9	4100.4	4131.7	4190.5	4178.7	4221.8
15°	4233.6	4182.6	4155.2	4147.4	4163.1	4190.5	4186.6	4217.9	4249.2	4276.6	4264.9
17.5°	4366.7	4300.1	4308.0	4347.1	4343.2	4335.4	4284.5	4268.8	4284.5	4300.1	4292.3
20°	4503.8	4511.6	4452.9	4417.6	4402.0	4323.6	4284.5	4237.5	4190.5	4214.0	4249.2
22.5°	4676.1	4640.9	4554.7	4449.0	4370.6	4323.6	4202.2	4120.0	4120.0	4143.5	4131.7
25°	4871.9	4797.5	4648.7	4456.8	4358.9	4159.1	4073.0	4061.2	4029.9	4065.2	4080.8
27.5°	5024.7	4958.1	4754.4	4429.4	4159.1	3998.6	3947.7	3932.0	3982.9	3986.8	4049.5
30°	5087.3	5067.7	4770.1	4358.9	3955.5	3697.0	3665.7	3736.2	3791.0	3873.3	3877.2
32.5°	5169.6	5177.4	4793.6	4194.4	3689.2	3430.7	3383.7	3469.9	3626.5	3693.1	3744.0
35°	5306.6	5345.8	4774.0	3990.7	3407.2	3160.5	3152.6	3176.1	3328.9	3446.4	3512.9
37.5°	5545.5	5537.7	4770.1	3747.9	3184.0	2925.5	2862.8	2870.7	2972.5	3070.4	3058.7
40°	5866.7	5835.3	4758.3	3430.7	2894.2	2725.8	2620.0	2580.9	2573.0	2545.6	2553.4
42.5°	6305.3	6242.6	4754.4	3109.6	2631.8	2451.6	2377.2	2275.4	2201.0	2060.0	2067.8
45°	6916.2	6806.6	4652.6	2808.0	2373.3	2224.5	2110.9	2036.5	1875.9	1699.7	1699.7
47.5°	7860.1	7503.7	4656.5	2475.1	2122.7	2001.2	1922.9	1793.7	1621.4	1480.4	1464.7
50°	9250.4	8435.8	4523.4	2212.7	1919.0	1836.8	1754.5	1605.7	1441.2	1343.3	1355.1
52.5°	11044.1	9826.1	4519.4	1977.7	1758.4	1699.7	1609.6	1476.5	1355.1	1292.4	1268.9
55°	13182.4	11666.7	4660.4	1785.8	1593.9	1562.6	1523.5	1413.8	1296.3	1241.5	1237.6
57.5°	15371.6	13464.3	4887.6	1648.8	1453.0	1476.5	1449.0	1362.9	1268.9	1206.2	1198.4
60°	17318.0	14889.9	4429.4	1484.3	1327.6	1378.5	1417.7	1343.3	1292.4	1288.5	1261.1
62.5°	18786.6	15500.8	3368.0	1359.0	1261.1	1355.1	1460.8	1507.8	1484.3	1515.6	1519.5
65°	19323.2	15132.7	2318.5	1292.4	1210.1	1409.9	1644.9	1629.2	1492.1	1433.4	1464.7
67.5°	18571.2	13640.6	1719.3	1214.1	1174.9	1523.5	1750.6	1554.8	1347.2	1339.4	1315.9
70°	15970.8	11561.0	1402.0	1131.8	1116.2	1460.8	1703.6	1441.2	1268.9	1218.0	1194.5
72°	12724.2	9003.6	1229.7	1073.1	1022.2	1304.1	1593.9	1351.1	1202.3	1139.7	1112.2
72.5°	11615.8	8345.7	1206.2	1045.7	1002.6	1268.9	1539.1	1323.7	1186.6	1131.8	1088.7
75°	6371.9	4272.7	1061.3	959.5	845.9	1096.6	1425.5	1241.5	1120.1	1041.7	1033.9
77.5°	2369.4	1656.6	916.4	849.8	732.4	947.8	1296.3	1178.8	1018.2	920.3	900.8
80°	908.6	873.3	748.0	716.7	614.9	830.3	1194.5	1057.4	865.5	767.6	736.3
82.5°	552.2	509.1	567.9	560.0	470.0	755.9	1124.0	990.8	767.6	622.7	603.1
85°	301.6	301.6	395.5	379.9	329.0	603.1	849.8	657.9	485.6	399.5	407.3
87.5°	133.2	156.7	211.5	199.7	180.2	340.7	415.1	348.6	242.8	164.5	176.2
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)