

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: P478570

Luminaire Tested: **IFLD-M-SA4E-740-U-T4W**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478570  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4E-740-U-T4W  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens  
Light Source: (64) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

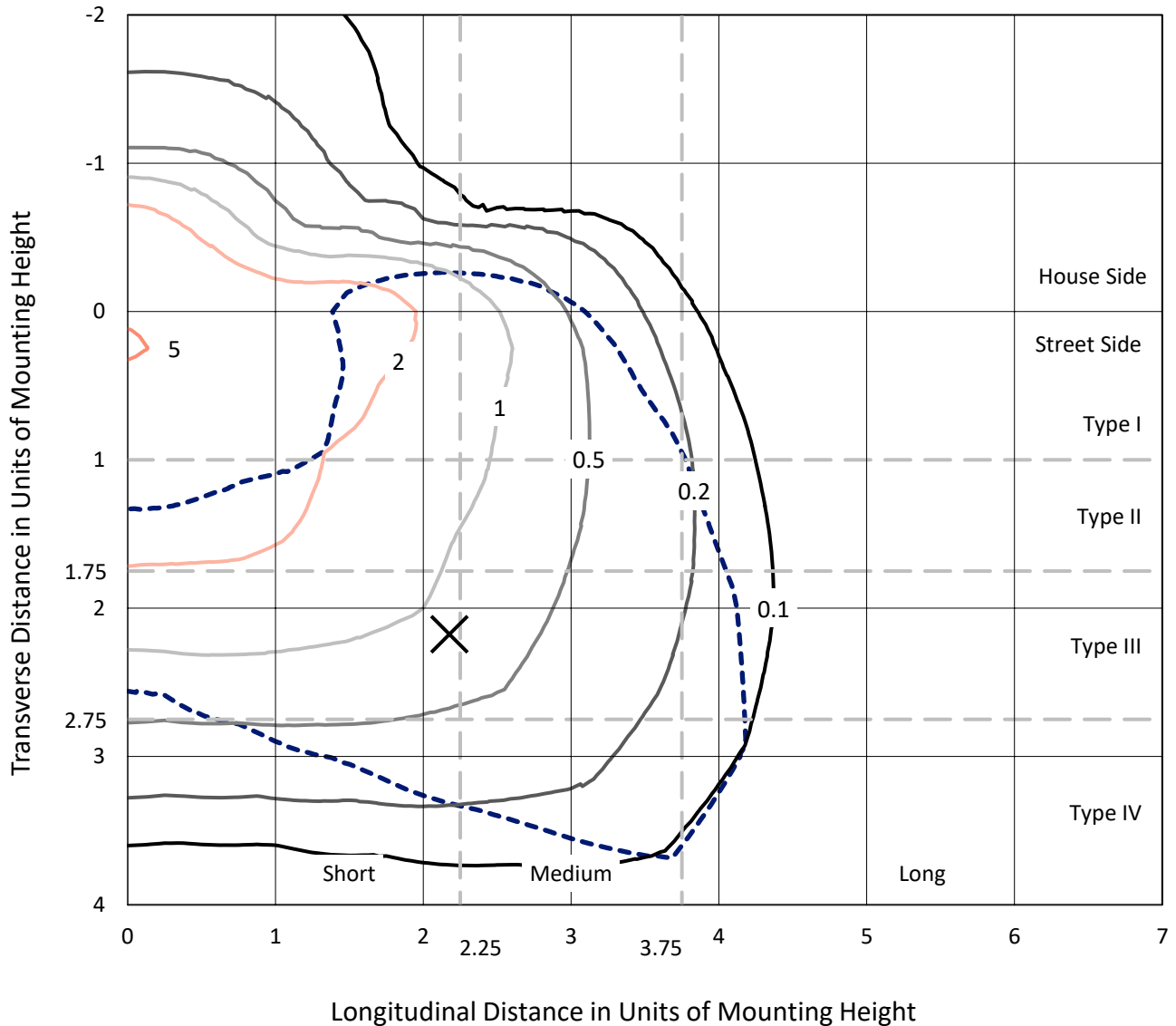
Lumens per Lamp: N/A  
Luminaire Lumens: 36594.9 lumens  
Efficiency: N/A  
Efficacy: 116.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 314.8  
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

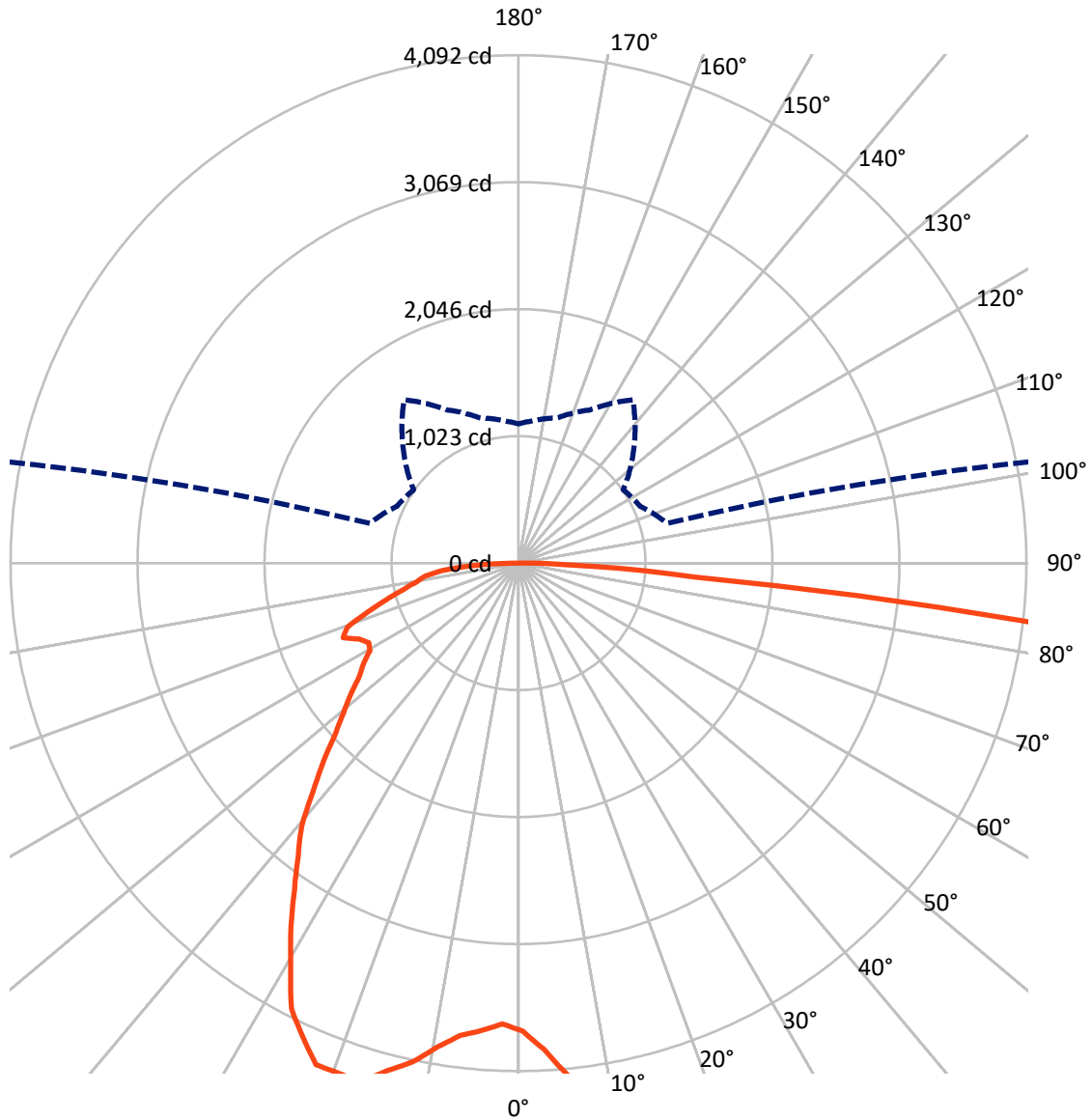
× Max cd  
 - - - 1/2 Max cd



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	8146.2	0.0	8146.2
	% Fixture	22.3	0.0	22.3
<b>Street Side</b>	Lumens	28448.6	0.0	28448.6
	% Fixture	77.7	0.0	77.7
<b>Total</b>	Lumens	36594.9	0.0	36594.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	385.6	1.1
10°-20°	1283.0	3.5
20°-30°	2166.7	5.9
30°-40°	2998.3	8.2
40°-50°	4288.8	11.7
50°-60°	6917.4	18.9
60°-70°	10202.1	27.9
70°-80°	7408.5	20.2
80°-90°	944.4	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°	36594.9	100.0
0°-180°	36594.9	100.0



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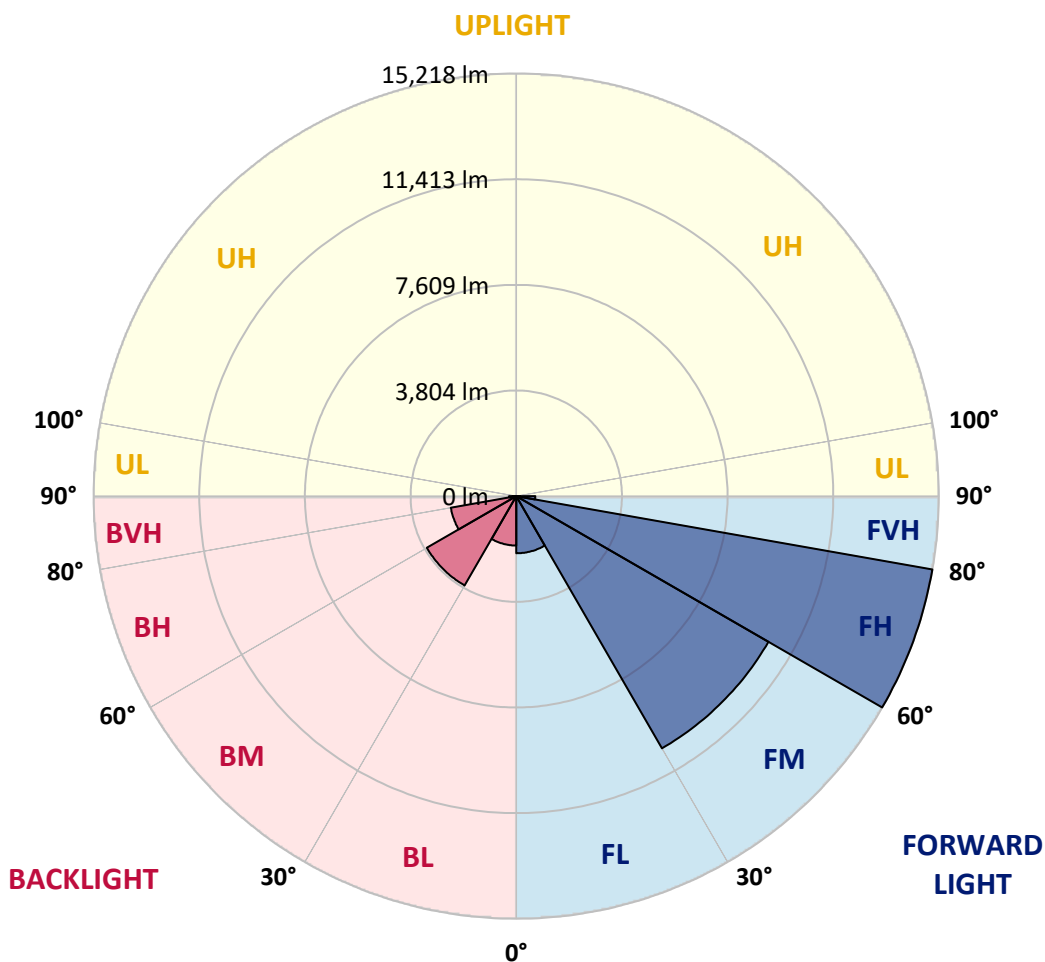
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2056.7	5.6			
FM (30°-60°)	10486.8	28.7			
FH (60°-80°)	15217.8	41.6			G5
FVH (80°-90°)	687.4	1.9			G4/750
BL (0°-30°)	1778.7	4.9	B3/2500		
BM (30°-60°)	3717.7	10.2	B3/5000		
BH (60°-80°)	2392.8	6.5	B3/2500		G3/2500
BVH (80°-90°)	257.0	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°	3768.6	3768.6	3768.6	3768.6	3768.6	3768.6	3768.6	3768.6	3768.6	3768.6	3768.6
2.5°	3969.9	3993.5	3969.9	3965.9	3926.5	3898.8	3922.5	3887.0	3847.5	3831.7	3796.2
5°	4332.9	4336.9	4293.5	4297.4	4214.5	4127.7	4143.5	4036.9	3922.5	3879.1	3808.1
7.5°	4703.9	4660.4	4597.3	4577.6	4447.4	4352.6	4340.8	4246.1	4068.5	3969.9	3871.2
10°	4944.6	4960.4	4857.8	4770.9	4660.4	4546.0	4542.1	4364.5	4261.9	4115.9	3989.6
12.5°	5157.7	5161.6	5074.8	4936.7	4798.6	4656.5	4676.2	4597.3	4423.7	4285.6	4159.3
15°	5323.4	5299.7	5205.0	5078.7	4932.7	4822.2	4810.4	4743.3	4597.3	4482.9	4273.7
17.5°	5370.8	5358.9	5264.2	5130.0	4988.0	4905.1	4936.7	4826.2	4767.0	4664.4	4463.1
20°	5280.0	5252.4	5236.6	5086.6	4984.0	4976.1	4948.5	4972.2	4873.5	4778.8	4632.8
22.5°	5114.3	5102.4	5094.5	4976.1	4928.8	4964.3	5011.7	5047.2	5031.4	4940.6	4774.9
25°	4944.6	4999.8	4948.5	4893.3	4960.4	5051.1	5039.3	5153.7	5153.7	5126.1	4988.0
27.5°	5063.0	5027.4	4988.0	4960.4	4984.0	5126.1	5118.2	5256.3	5307.6	5256.3	5098.5
30°	5358.9	5323.4	5209.0	5086.6	5055.1	5209.0	5248.4	5370.8	5394.4	5268.2	5134.0
32.5°	5915.3	5895.6	5714.1	5355.0	5161.6	5248.4	5268.2	5406.3	5386.5	5307.6	5252.4
35°	6740.1	6673.0	6420.4	5812.7	5386.5	5299.7	5248.4	5358.9	5433.9	5394.4	5343.1
37.5°	7643.8	7568.8	7257.0	6487.5	5793.0	5437.8	5398.4	5489.1	5576.0	5556.2	5449.7
40°	8508.0	8508.0	8227.8	7332.0	6396.8	5773.3	5781.2	5678.6	5757.5	5722.0	5741.7
42.5°	9360.4	9328.8	9214.3	8322.5	7043.9	6333.6	6207.4	5950.9	6092.9	6081.1	6108.7
45°	10224.6	10200.9	10169.3	9245.9	7971.3	7091.3	7024.2	6562.5	6692.7	6637.5	6755.9
47.5°	10915.2	10942.8	10942.8	10275.9	8961.8	8101.5	8002.9	7272.8	7521.4	7549.1	7576.7
50°	11503.1	11515.0	11503.1	11258.5	10066.7	9257.8	9056.5	8314.6	8563.2	8780.3	9032.8
52.5°	12316.1	12331.8	12276.6	12181.9	11566.3	10473.2	10248.2	9423.5	9932.6	10161.4	10615.2
55°	13318.4	13200.0	13097.4	13168.4	13006.6	11810.9	11578.1	10567.9	11333.4	11637.3	12544.9
57.5°	13503.9	13606.5	13866.9	14431.2	14664.0	13113.2	12979.0	11972.7	12915.9	13180.3	14695.6
60°	14158.9	13989.2	14628.5	15851.8	16112.3	14810.0	14671.9	13511.7	14490.4	14766.6	16680.5
62.5°	14589.1	14581.2	15528.2	16980.4	17572.4	16570.0	16289.9	15512.5	16191.2	16459.5	18843.0
65°	14462.8	14577.2	16258.3	17643.4	18791.7	18570.8	18409.0	17233.0	18128.8	18105.1	20251.8
67.5°	13310.5	13634.1	15796.6	18120.9	20607.0	21009.5	20958.2	19652.0	19703.3	19202.1	20879.3
70°	11712.3	11601.8	13843.2	17623.7	21514.6	23902.1	23890.2	21451.5	21120.0	19442.9	19079.8
72°	8997.3	8875.0	10717.8	15133.6	21037.1	25058.3	25413.4	22698.5	21104.2	18444.5	15761.1
72.5°	8168.6	8062.1	9897.0	14245.7	20508.3	25358.2	25192.5	22745.8	20938.5	17974.9	14723.2
75°	3760.7	3638.4	4944.6	8721.1	15997.8	22469.6	23033.9	21285.7	18286.6	14308.9	8819.7
77.5°	1120.7	1085.2	1590.3	3520.0	9297.2	16554.3	16771.3	16061.0	12765.9	7837.1	3271.4
80°	623.5	627.4	820.8	1318.0	4088.2	9569.5	10350.8	9920.7	6262.6	2588.7	1089.1
82.5°	347.3	367.0	513.0	781.3	1878.4	4392.1	4727.5	4557.8	2265.1	1215.4	595.9
85°	181.5	189.4	268.3	418.3	1065.5	1389.1	1428.5	1531.1	1176.0	828.7	319.6
87.5°	71.0	71.0	98.7	173.6	394.6	430.1	386.7	469.6	674.8	536.7	157.8
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°	3768.6	3768.6	3768.6	3768.6	3768.6	3768.6	3768.6	3768.6	3768.6	3768.6	3768.6
2.5°	3827.8	3796.2	3792.3	3741.0	3756.8	3713.4	3717.3	3709.4	3713.4	3705.5	3685.7
5°	3808.1	3784.4	3717.3	3760.7	3721.3	3776.5	3819.9	3804.1	3816.0	3812.0	3816.0
7.5°	3835.7	3804.1	3796.2	3772.6	3808.1	3831.7	3867.3	3965.9	3958.0	3969.9	3993.5
10°	3918.6	3883.0	3859.4	3894.9	3875.2	3950.1	3989.6	4040.9	4131.7	4135.6	4088.2
12.5°	4080.4	4056.7	4009.3	4017.2	4084.3	4108.0	4131.7	4163.2	4222.4	4210.6	4254.0
15°	4265.8	4214.5	4186.9	4179.0	4194.8	4222.4	4218.5	4250.0	4281.6	4309.2	4297.4
17.5°	4400.0	4332.9	4340.8	4380.3	4376.3	4368.4	4317.1	4301.3	4317.1	4332.9	4325.0
20°	4538.1	4546.0	4486.8	4451.3	4435.5	4356.6	4317.1	4269.8	4222.4	4246.1	4281.6
22.5°	4711.7	4676.2	4589.4	4482.9	4403.9	4356.6	4234.3	4151.4	4151.4	4175.1	4163.2
25°	4909.1	4834.1	4684.1	4490.8	4392.1	4190.9	4104.0	4092.2	4060.6	4096.1	4111.9
27.5°	5063.0	4995.9	4790.7	4463.1	4190.9	4029.1	3977.8	3962.0	4013.3	4017.2	4080.4
30°	5126.1	5106.4	4806.5	4392.1	3985.6	3725.2	3693.6	3764.7	3819.9	3902.8	3906.7
32.5°	5209.0	5216.9	4830.1	4226.4	3717.3	3456.9	3409.5	3496.3	3654.2	3721.3	3772.6
35°	5347.1	5386.5	4810.4	4021.2	3433.2	3184.6	3176.7	3200.4	3354.3	3472.6	3539.7
37.5°	5587.8	5579.9	4806.5	3776.5	3208.3	2947.8	2884.7	2892.6	2995.2	3093.8	3082.0
40°	5911.4	5879.8	4794.6	3456.9	2916.2	2746.5	2640.0	2600.5	2592.6	2565.0	2572.9
42.5°	6353.4	6290.2	4790.7	3133.3	2651.8	2470.3	2395.3	2292.7	2217.8	2075.7	2083.6
45°	6969.0	6858.5	4688.1	2829.4	2391.4	2241.4	2127.0	2052.0	1890.2	1712.6	1712.6
47.5°	7920.0	7560.9	4692.0	2494.0	2138.8	2016.5	1937.6	1807.4	1633.7	1491.7	1475.9
50°	9320.9	8500.1	4557.8	2229.6	1933.6	1850.8	1767.9	1617.9	1452.2	1353.5	1365.4
52.5°	11128.2	9901.0	4553.9	1992.8	1771.8	1712.6	1621.9	1487.7	1365.4	1302.2	1278.6
55°	13282.9	11755.7	4696.0	1799.5	1606.1	1574.5	1535.1	1424.6	1306.2	1250.9	1247.0
57.5°	15488.8	13567.0	4924.8	1661.3	1464.0	1487.7	1460.1	1373.3	1278.6	1215.4	1207.5
60°	17450.0	15003.4	4463.1	1495.6	1337.8	1389.1	1428.5	1353.5	1302.2	1298.3	1270.7
62.5°	18929.9	15619.0	3393.7	1369.3	1270.7	1365.4	1471.9	1519.3	1495.6	1527.2	1531.1
65°	19470.5	15248.1	2336.1	1302.2	1219.4	1420.6	1657.4	1641.6	1503.5	1444.3	1475.9
67.5°	18712.8	13744.6	1732.4	1223.3	1183.9	1535.1	1763.9	1566.6	1357.5	1349.6	1325.9
70°	16092.6	11649.1	1412.7	1140.4	1124.7	1471.9	1716.6	1452.2	1278.6	1227.3	1203.6
72°	12821.2	9072.3	1239.1	1081.3	1030.0	1314.1	1606.1	1361.4	1211.5	1148.3	1120.7
72.5°	11704.4	8409.3	1215.4	1053.6	1010.2	1278.6	1550.9	1333.8	1195.7	1140.4	1097.0
75°	6420.4	4305.3	1069.4	966.8	852.4	1104.9	1436.4	1250.9	1128.6	1049.7	1041.8
77.5°	2387.4	1669.2	923.4	856.3	737.9	955.0	1306.2	1187.8	1026.0	927.4	907.6
80°	915.5	880.0	753.7	722.2	619.6	836.6	1203.6	1065.5	872.1	773.5	741.9
82.5°	556.4	513.0	572.2	564.3	473.5	761.6	1132.6	998.4	773.5	627.4	607.7
85°	303.9	303.9	398.6	382.8	331.5	607.7	856.3	663.0	489.3	402.5	410.4
87.5°	134.2	157.8	213.1	201.3	181.5	343.3	418.3	351.2	244.7	165.7	177.6
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)