

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: P478563

Luminaire Tested: **IFLD-S-SA6C-740-U-T4W**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478563  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6C-740-U-T4W  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens  
Light Source: (96) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

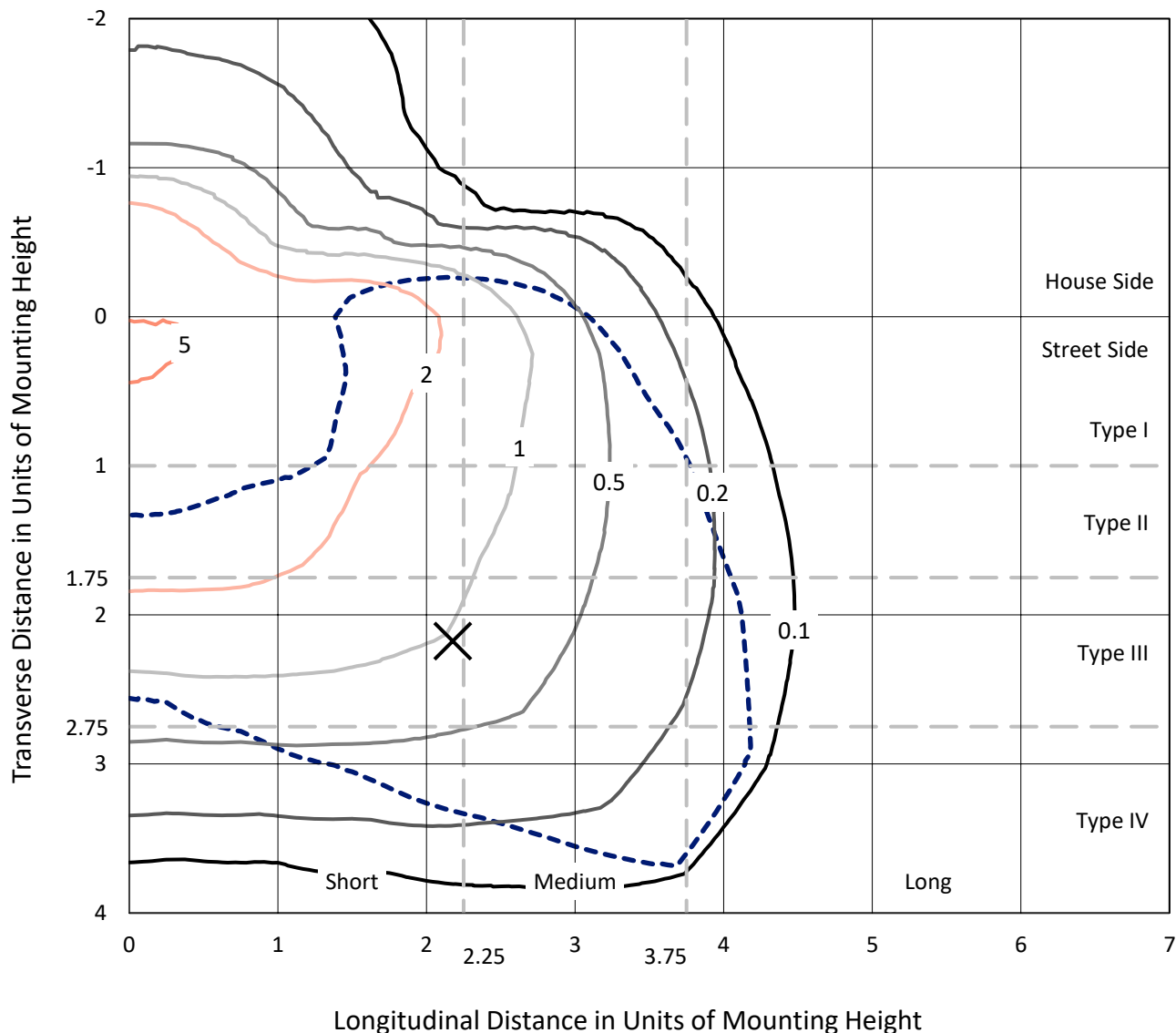
Lumens per Lamp: N/A  
Luminaire Lumens: 41999.7 lumens  
Efficiency: N/A  
Efficacy: 130.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5

Input Watts (W): 321.5  
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

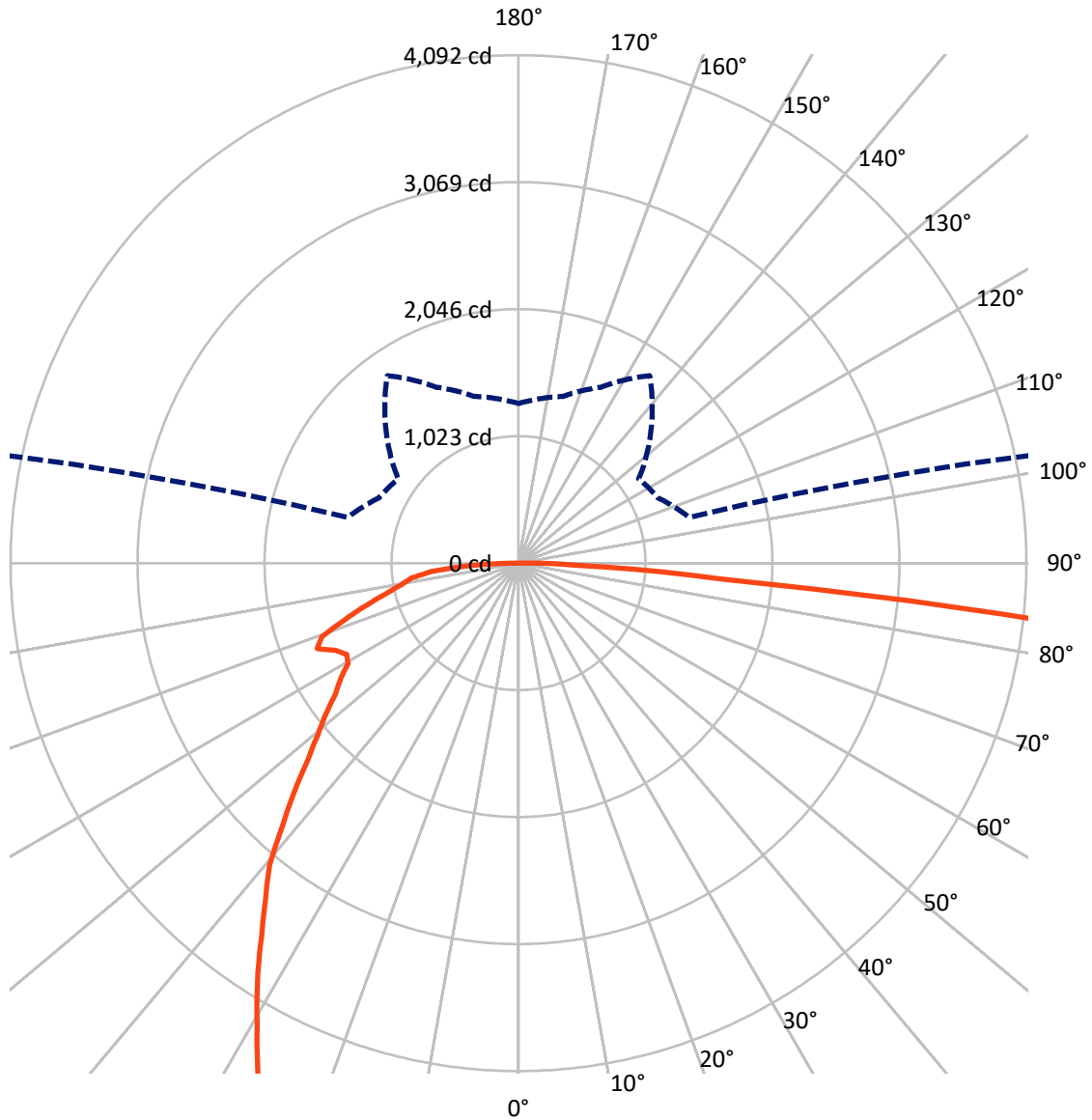
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.1 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	9349.4	0.0	9349.4
	% Fixture	22.3	0.0	22.3
<b>Street Side</b>	Lumens	32650.4	0.0	32650.4
	% Fixture	77.7	0.0	77.7
<b>Total</b>	Lumens	41999.7	0.0	41999.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	442.6	1.1
10°-20°	1472.5	3.5
20°-30°	2486.7	5.9
30°-40°	3441.2	8.2
40°-50°	4922.2	11.7
50°-60°	7939.0	18.9
60°-70°	11708.9	27.9
70°-80°	8502.7	20.2
80°-90°	1083.9	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°	41999.7	100.0
0°-180°	41999.7	100.0

**Coefficient of Utilization**



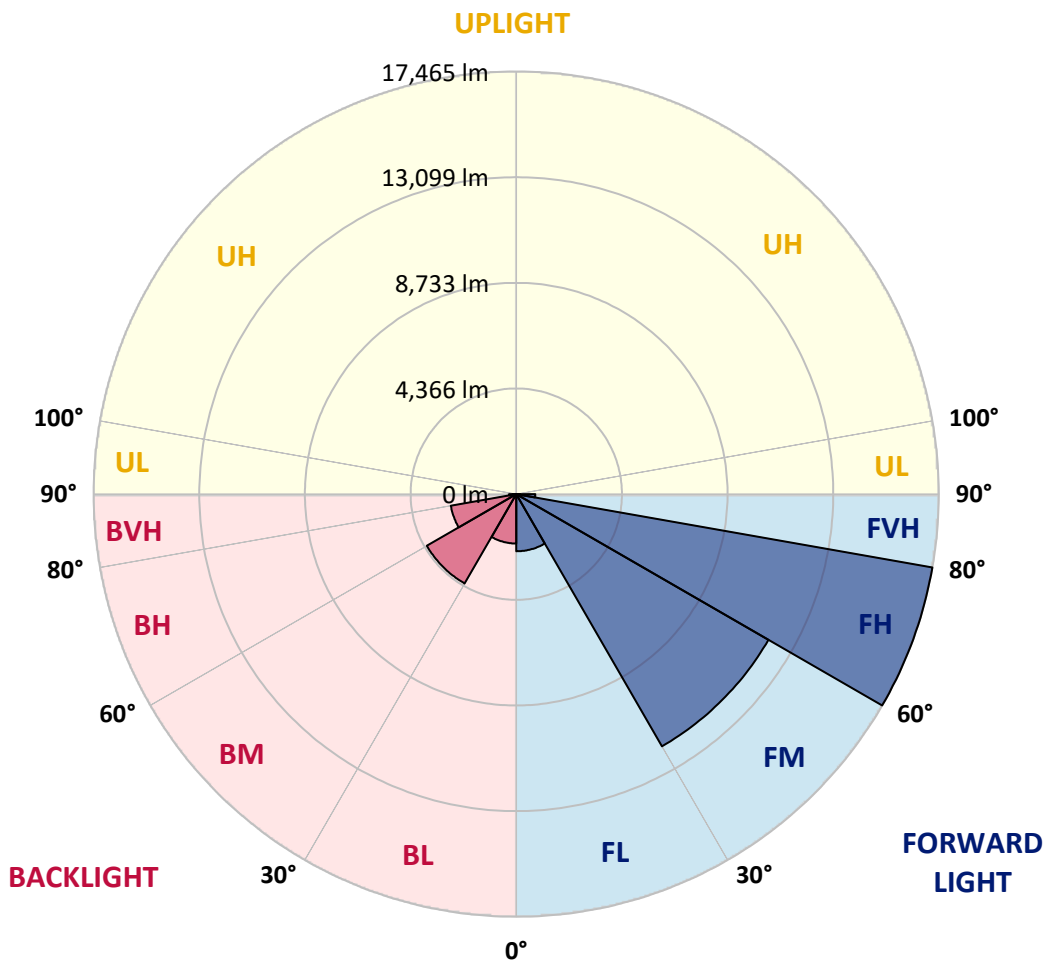
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2360.4	5.6			
FM (30°-60°)	12035.7	28.7			
FH (60°-80°)	17465.4	41.6			G5
FVH (80°-90°)	788.9	1.9			G5
BL (0°-30°)	2041.4	4.9	B3/2500		
BM (30°-60°)	4266.8	10.2	B3/5000		
BH (60°-80°)	2746.3	6.5	B4/5000		G4/5000
BVH (80°-90°)	295.0	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	4325.2	4325.2	4325.2	4325.2	4325.2	4325.2	4325.2	4325.2	4325.2	4325.2	4325.2
2.5°	4556.2	4583.4	4556.2	4551.7	4506.4	4474.7	4501.8	4461.1	4415.8	4397.7	4356.9
5°	4972.9	4977.4	4927.6	4932.1	4837.0	4737.4	4755.5	4633.2	4501.8	4452.0	4370.5
7.5°	5398.6	5348.8	5276.3	5253.7	5104.2	4995.5	4981.9	4873.2	4669.4	4556.2	4443.0
10°	5674.9	5693.0	5575.2	5475.6	5348.8	5217.4	5212.9	5009.1	4891.3	4723.8	4578.8
12.5°	5919.4	5924.0	5824.3	5665.8	5507.3	5344.2	5366.9	5276.3	5077.0	4918.5	4773.6
15°	6109.6	6082.5	5973.8	5828.8	5661.3	5534.5	5520.9	5443.9	5276.3	5145.0	4904.9
17.5°	6164.0	6150.4	6041.7	5887.7	5724.7	5629.6	5665.8	5539.0	5471.1	5353.3	5122.3
20°	6059.8	6028.1	6010.0	5837.9	5720.2	5711.1	5679.4	5706.6	5593.3	5484.6	5317.1
22.5°	5869.6	5856.0	5847.0	5711.1	5656.7	5697.5	5751.9	5792.6	5774.5	5670.3	5480.1
25°	5674.9	5738.3	5679.4	5616.0	5693.0	5797.1	5783.6	5914.9	5914.9	5883.2	5724.7
27.5°	5810.7	5770.0	5724.7	5693.0	5720.2	5883.2	5874.1	6032.7	6091.5	6032.7	5851.5
30°	6150.4	6109.6	5978.3	5837.9	5801.7	5978.3	6023.6	6164.0	6191.2	6046.2	5892.3
32.5°	6789.0	6766.4	6558.0	6145.9	5924.0	6023.6	6046.2	6204.8	6182.1	6091.5	6028.1
35°	7735.6	7658.6	7368.7	6671.2	6182.1	6082.5	6023.6	6150.4	6236.5	6191.2	6132.3
37.5°	8772.7	8686.7	8328.9	7445.7	6648.6	6241.0	6195.7	6299.9	6399.5	6376.9	6254.6
40°	9764.6	9764.6	9443.0	8414.9	7341.5	6626.0	6635.0	6517.3	6607.8	6567.1	6589.7
42.5°	10742.8	10706.6	10575.3	9551.7	8084.3	7269.1	7124.1	6829.8	6992.8	6979.2	7010.9
45°	11734.7	11707.5	11671.3	10611.5	9148.6	8138.6	8061.7	7531.8	7681.2	7617.8	7753.7
47.5°	12527.3	12559.0	12559.0	11793.6	10285.4	9298.1	9184.8	8347.0	8632.3	8664.0	8695.7
50°	13202.1	13215.7	13202.1	12921.3	11553.5	10625.1	10394.1	9542.6	9828.0	10077.1	10366.9
52.5°	14135.1	14153.2	14089.8	13981.1	13274.6	12020.0	11761.9	10815.3	11399.5	11662.2	12183.1
55°	15285.4	15149.6	15031.8	15113.3	14927.6	13555.4	13288.1	12128.7	13007.3	13356.1	14397.7
57.5°	15498.3	15616.1	15915.0	16562.6	16829.8	15049.9	14895.9	13741.0	14823.5	15126.9	16866.1
60°	16250.1	16055.4	16789.1	18193.1	18492.0	16997.4	16838.9	15507.4	16630.6	16947.6	19144.2
62.5°	16743.8	16734.7	17821.7	19488.4	20167.7	19017.3	18695.8	17803.6	18582.6	18890.5	21626.1
65°	16598.9	16730.2	18659.6	20249.2	21567.2	21313.6	21127.9	19778.2	20806.3	20779.1	23242.9
67.5°	15276.4	15647.8	18129.7	20797.3	23650.5	24112.5	24053.6	22554.5	22613.4	22038.2	23963.0
70°	13442.1	13315.3	15887.8	20226.6	24692.2	27432.3	27418.7	24619.7	24239.3	22314.5	21897.8
72°	10326.2	10185.8	12300.8	17368.8	24144.2	28759.3	29166.9	26050.9	24221.2	21168.6	18088.9
72.5°	9375.1	9252.8	11358.8	16349.8	23537.3	29103.5	28913.3	26105.3	24031.0	20629.7	16897.8
75°	4316.2	4175.8	5674.9	10009.1	18360.6	25788.2	26435.9	24429.5	20987.5	16422.2	10122.4
77.5°	1286.2	1245.5	1825.2	4039.9	10670.4	18999.2	19248.3	18433.1	14651.4	8994.6	3754.6
80°	715.6	720.1	942.0	1512.7	4692.1	10982.9	11879.6	11386.0	7187.6	2971.0	1250.0
82.5°	398.6	421.2	588.8	896.7	2155.8	5040.8	5425.8	5231.0	2599.7	1394.9	683.9
85°	208.3	217.4	308.0	480.1	1222.8	1594.2	1639.5	1757.3	1349.6	951.1	366.9
87.5°	81.5	81.5	113.2	199.3	452.9	493.7	443.8	539.0	774.5	615.9	181.2
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°	4325.2	4325.2	4325.2	4325.2	4325.2	4325.2	4325.2	4325.2	4325.2	4325.2	4325.2
2.5°	4393.1	4356.9	4352.4	4293.5	4311.6	4261.8	4266.3	4257.3	4261.8	4252.7	4230.1
5°	4370.5	4343.3	4266.3	4316.2	4270.9	4334.3	4384.1	4366.0	4379.6	4375.0	4379.6
7.5°	4402.2	4366.0	4356.9	4329.7	4370.5	4397.7	4438.4	4551.7	4542.6	4556.2	4583.4
10°	4497.3	4456.6	4429.4	4470.1	4447.5	4533.5	4578.8	4637.7	4741.9	4746.4	4692.1
12.5°	4683.0	4655.8	4601.5	4610.5	4687.5	4714.7	4741.9	4778.1	4846.0	4832.5	4882.3
15°	4895.9	4837.0	4805.3	4796.2	4814.3	4846.0	4841.5	4877.8	4914.0	4945.7	4932.1
17.5°	5049.9	4972.9	4981.9	5027.2	5022.7	5013.6	4954.7	4936.6	4954.7	4972.9	4963.8
20°	5208.4	5217.4	5149.5	5108.7	5090.6	5000.0	4954.7	4900.4	4846.0	4873.2	4914.0
22.5°	5407.6	5366.9	5267.2	5145.0	5054.4	5000.0	4859.6	4764.5	4764.5	4791.7	4778.1
25°	5634.1	5548.0	5375.9	5154.0	5040.8	4809.8	4710.2	4696.6	4660.4	4701.1	4719.2
27.5°	5810.7	5733.7	5498.2	5122.3	4809.8	4624.1	4565.3	4547.1	4606.0	4610.5	4683.0
30°	5883.2	5860.5	5516.3	5040.8	4574.3	4275.4	4239.2	4320.7	4384.1	4479.2	4483.7
32.5°	5978.3	5987.4	5543.5	4850.6	4266.3	3967.4	3913.1	4012.7	4193.9	4270.9	4329.7
35°	6136.8	6182.1	5520.9	4615.1	3940.2	3654.9	3645.9	3673.0	3849.7	3985.5	4062.5
37.5°	6413.1	6404.0	5516.3	4334.3	3682.1	3383.2	3310.7	3319.8	3437.5	3550.8	3537.2
40°	6784.5	6748.2	5502.8	3967.4	3346.9	3152.2	3029.9	2984.6	2975.6	2943.9	2952.9
42.5°	7291.7	7219.3	5498.2	3596.0	3043.5	2835.2	2749.1	2631.4	2545.3	2382.3	2391.3
45°	7998.2	7871.4	5380.5	3247.3	2744.6	2572.5	2441.1	2355.1	2169.4	1965.6	1965.6
47.5°	9089.7	8677.6	5385.0	2862.3	2454.7	2314.3	2223.7	2074.3	1875.0	1712.0	1693.9
50°	10697.5	9755.5	5231.0	2558.9	2219.2	2124.1	2029.0	1856.9	1666.7	1553.5	1567.0
52.5°	12771.8	11363.3	5226.5	2287.2	2033.5	1965.6	1861.4	1707.4	1567.0	1494.6	1467.4
55°	15244.7	13491.9	5389.5	2065.2	1843.3	1807.1	1761.8	1635.0	1499.1	1435.7	1431.2
57.5°	17776.4	15570.8	5652.2	1906.7	1680.3	1707.4	1675.7	1576.1	1467.4	1394.9	1385.9
60°	20027.3	17219.3	5122.3	1716.5	1535.3	1594.2	1639.5	1553.5	1494.6	1490.0	1458.3
62.5°	21725.7	17925.9	3895.0	1571.6	1458.3	1567.0	1689.3	1743.7	1716.5	1752.7	1757.3
65°	22346.2	17500.1	2681.2	1494.6	1399.5	1630.4	1902.2	1884.1	1725.6	1657.6	1693.9
67.5°	21476.6	15774.6	1988.2	1404.0	1358.7	1761.8	2024.5	1798.0	1558.0	1548.9	1521.8
70°	18469.3	13369.7	1621.4	1308.9	1290.8	1689.3	1970.1	1666.7	1467.4	1408.5	1381.4
72°	14714.8	10412.2	1422.1	1241.0	1182.1	1508.2	1843.3	1562.5	1390.4	1317.9	1286.2
72.5°	13433.1	9651.3	1394.9	1209.2	1159.4	1467.4	1779.9	1530.8	1372.3	1308.9	1259.1
75°	7368.7	4941.2	1227.4	1109.6	978.3	1268.1	1648.6	1435.7	1295.3	1204.7	1195.7
77.5°	2740.1	1915.8	1059.8	982.8	846.9	1096.0	1499.1	1363.2	1177.5	1064.3	1041.7
80°	1050.7	1010.0	865.0	828.8	711.1	960.2	1381.4	1222.8	1000.9	887.7	851.5
82.5°	638.6	588.8	656.7	647.6	543.5	874.1	1299.8	1145.8	887.7	720.1	697.5
85°	348.7	348.7	457.4	439.3	380.4	697.5	982.8	760.9	561.6	462.0	471.0
87.5°	154.0	181.2	244.6	231.0	208.3	394.0	480.1	403.1	280.8	190.2	203.8
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)