

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: P478134

Luminaire Tested: **IFLD-S-SA6C-735-U-T4FT**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478134  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6C-735-U-T4FT  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens  
Light Source: (96) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

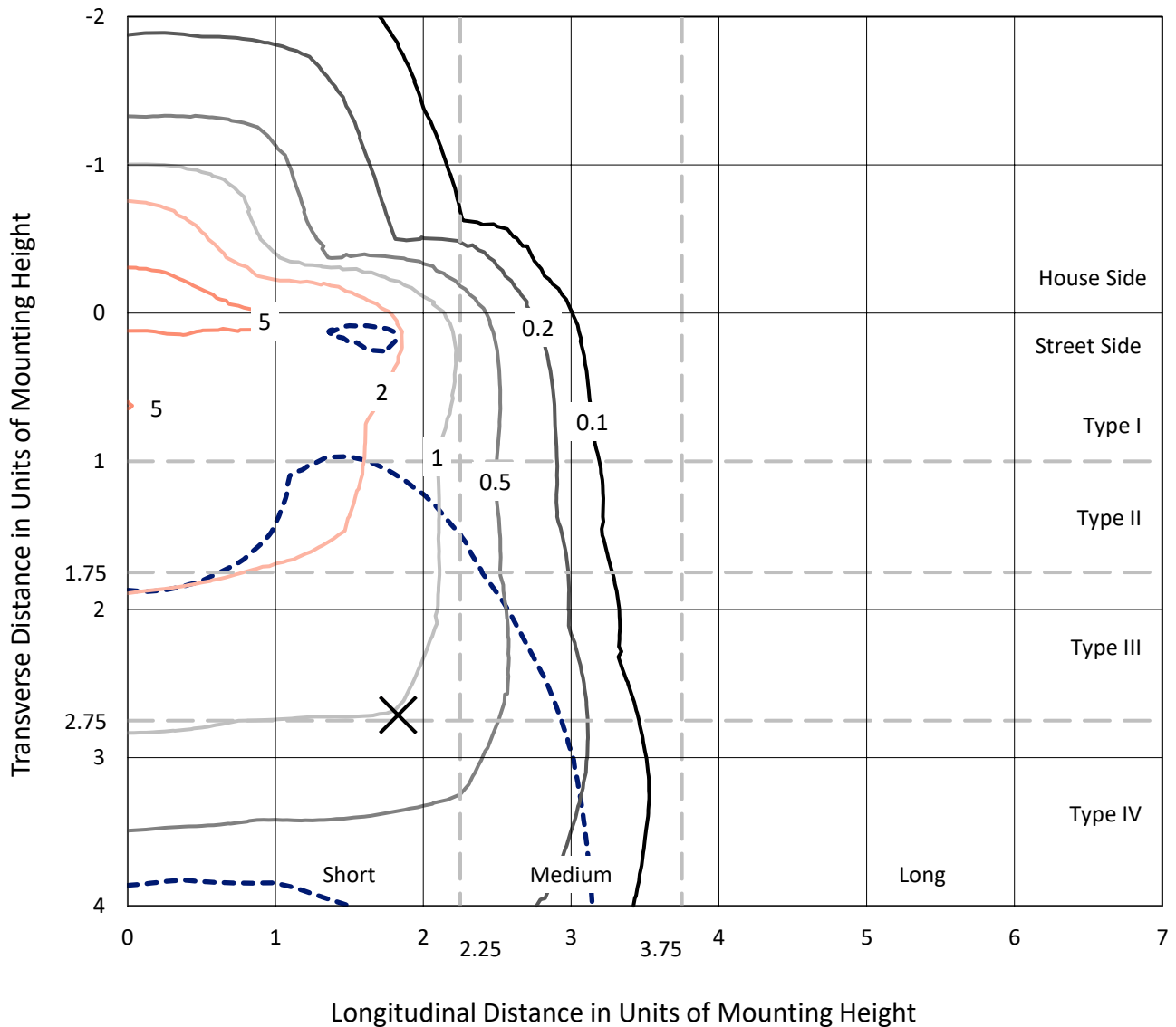
Lumens per Lamp: N/A  
Luminaire Lumens: 41986.3 lumens  
Efficiency: N/A  
Efficacy: 130.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

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

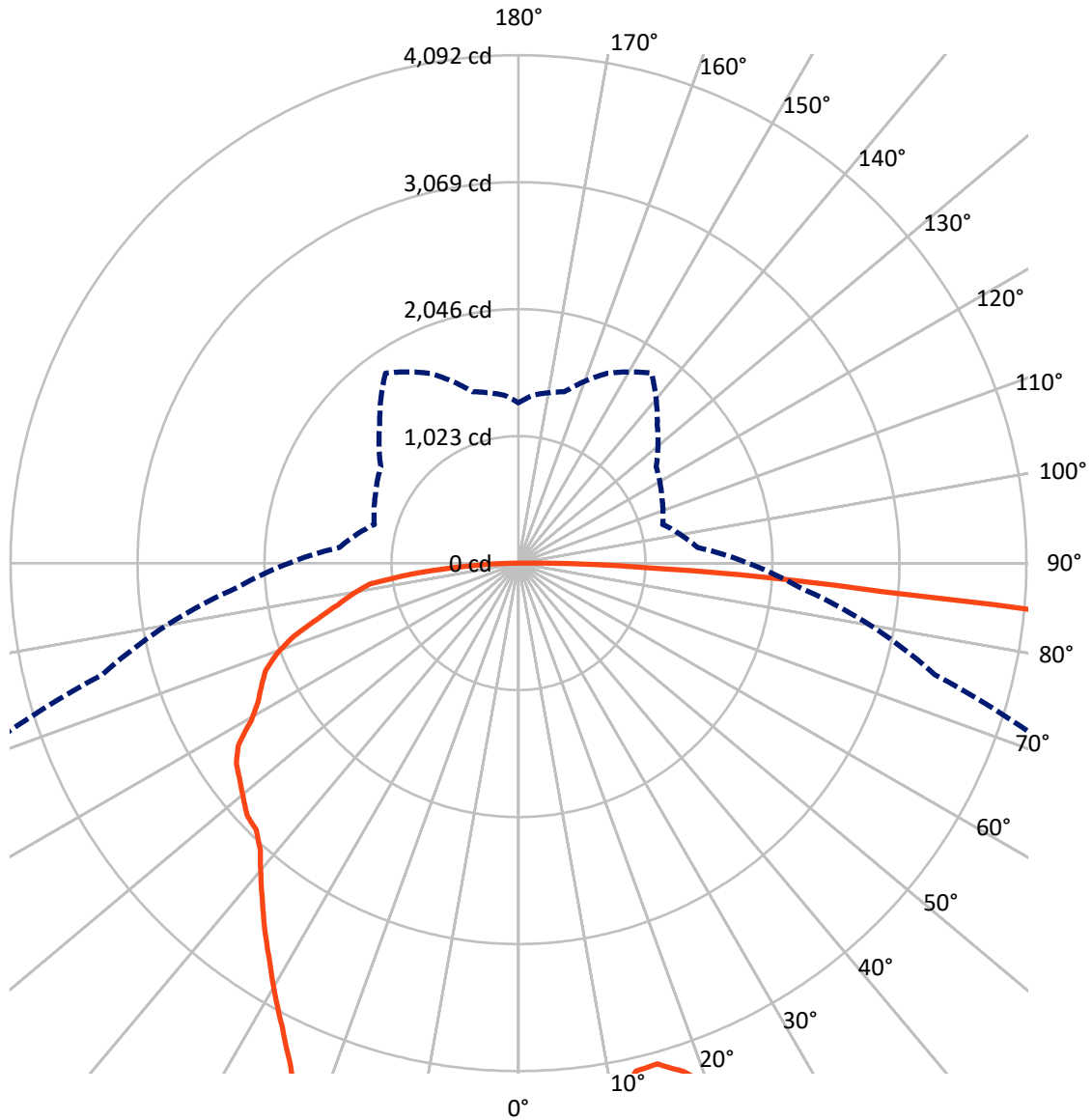
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral      - - - Horizontal Cone Through 73-Deg Vertical

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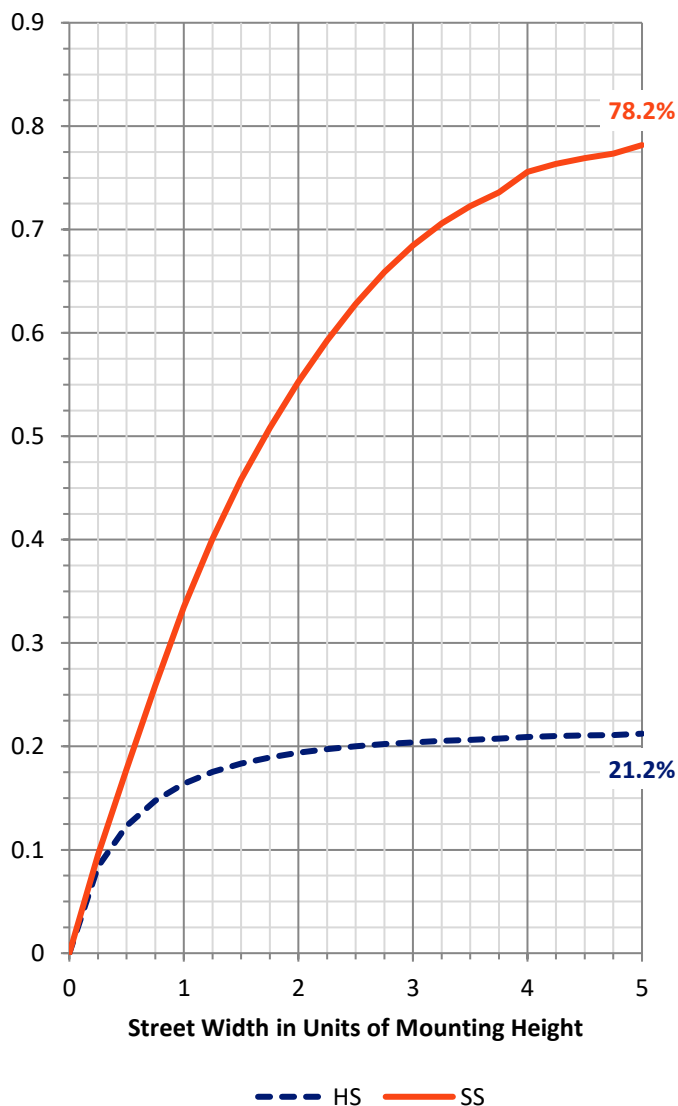
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9069.6	0.0	9069.6
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	32916.7	0.0	32916.7
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	41986.3	0.0	41986.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	555.6	1.3
10°-20°	1554.8	3.7
20°-30°	2558.9	6.1
30°-40°	3826.9	9.1
40°-50°	5673.2	13.5
50°-60°	8175.7	19.5
60°-70°	10433.2	24.8
70°-80°	8118.8	19.3
80°-90°	1089.2	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°	41986.3	100.0
0°-180°	41986.3	100.0

**Coefficient of Utilization**



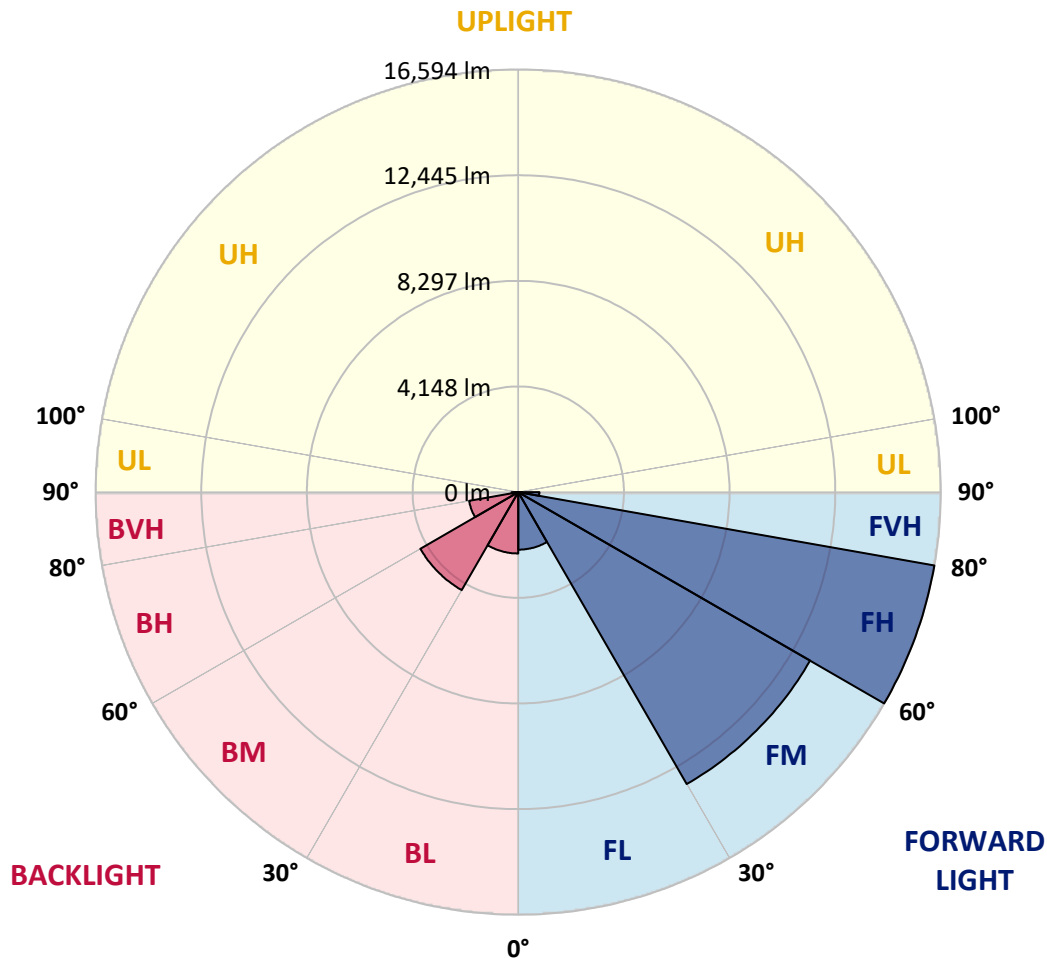
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2259.6	5.4			
FM (30°-60°)	13234.3	31.5			
FH (60°-80°)	16593.7	39.5			G5
FVH (80°-90°)	829.1	2.0			G5
BL (0°-30°)	2409.7	5.7	B3/2500		
BM (30°-60°)	4441.4	10.6	B3/5000		
BH (60°-80°)	1958.3	4.7	B3/2500		G3/2500
BVH (80°-90°)	260.1	0.6			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°	34°	35°	45°	55°	65°	75°	85°
0°	6019.4	6019.4	6019.4	6019.4	6019.4	6019.4	6019.4	6019.4	6019.4	6019.4	6019.4
2.5°	5393.5	5411.2	5468.9	5482.3	5544.4	5508.9	5584.4	5717.5	5793.0	5904.0	6037.1
5°	4967.3	4891.9	4927.4	5065.0	5136.0	5153.8	5233.7	5460.1	5602.1	5766.4	6015.0
7.5°	4465.7	4452.4	4523.4	4612.2	4754.3	4767.6	4945.1	5144.9	5437.9	5801.9	6094.9
10°	4123.9	4181.6	4221.6	4314.8	4412.4	4412.4	4638.8	4985.1	5318.0	5668.7	6112.6
12.5°	4106.1	4070.6	4079.5	4128.3	4199.4	4288.2	4501.2	4812.0	5233.7	5642.1	6188.1
15°	4163.9	4177.2	4097.3	4159.4	4186.1	4217.1	4452.4	4803.1	5180.4	5735.3	6316.8
17.5°	4470.2	4394.7	4270.4	4212.7	4305.9	4305.9	4465.7	4740.9	5189.3	5784.1	6503.3
20°	4709.9	4709.9	4505.7	4443.5	4510.1	4496.8	4607.8	4812.0	5233.7	5881.8	6711.9
22.5°	5113.8	5171.5	4834.2	4705.4	4701.0	4736.5	4834.2	5007.3	5358.0	6019.4	6911.6
25°	5695.3	5708.7	5318.0	5184.8	5042.8	5100.5	5118.3	5291.4	5468.9	6179.2	7138.0
27.5°	6343.4	6334.6	5975.0	5642.1	5548.8	5562.2	5464.5	5579.9	5633.2	6228.0	7462.1
30°	7062.6	6982.7	6711.9	6241.3	6165.9	6081.5	5868.5	5864.0	5975.0	6503.3	7910.4
32.5°	7533.1	7431.0	7244.6	6907.2	6698.6	6707.4	6370.1	6365.6	6268.0	6805.1	8301.1
35°	7994.8	7839.4	7790.6	7444.3	7235.7	7257.9	6987.1	6951.6	6774.0	7262.3	8944.7
37.5°	8549.7	8412.1	8487.5	8225.6	7968.1	7861.6	7737.3	7692.9	7462.1	7906.0	9823.7
40°	9162.3	9117.9	9069.0	8940.3	8784.9	8793.8	8660.6	8616.3	8274.4	8682.8	10667.1
42.5°	9987.9	9819.2	9566.2	9650.6	9730.5	9814.8	9770.4	9655.0	9299.9	9473.0	11608.2
45°	10755.9	10533.9	10067.8	10094.5	10423.0	10489.5	11026.7	11013.4	10298.7	10476.2	12678.0
47.5°	11275.3	11173.2	10893.5	10862.4	11333.0	11328.5	12296.3	12296.3	11350.7	11475.0	13827.7
50°	12047.7	11781.3	11661.5	11816.8	12056.5	12220.8	13592.5	13676.8	12385.0	12518.2	15332.6
52.5°	12953.2	12620.3	12318.4	12718.0	13144.1	13250.7	14875.4	14839.8	13179.6	13730.1	17094.9
55°	13703.4	13534.8	13326.1	13557.0	14253.9	14387.1	16162.7	15834.2	13974.2	14733.3	17942.8
57.5°	14577.9	14680.0	14724.4	14666.7	15496.8	15705.5	17632.0	16690.9	14657.8	15408.0	18439.9
60°	15896.3	15958.5	16016.2	16153.8	17032.7	17325.7	18795.1	17765.2	15088.4	15798.7	18479.9
62.5°	17902.8	17663.1	17791.8	18266.8	18972.6	19305.6	20508.5	18519.8	15416.9	16034.0	17174.8
65°	20197.8	19873.8	19740.6	20353.2	22182.1	21915.7	22648.2	19083.6	14941.9	15155.0	14564.6
67.5°	22523.9	22559.4	22217.6	23447.2	25689.0	25689.0	24636.9	19354.4	13654.6	12282.9	10214.3
70°	24370.5	24481.5	24668.0	27051.8	30603.0	31140.1	27100.6	18244.6	11031.1	8176.8	5584.4
72.5°	24343.9	24011.0	24965.4	29355.6	35068.7	34620.4	27615.5	14427.0	6885.0	4004.1	2561.3
73°	23797.9	23518.2	24561.4	29333.4	35250.7	34829.0	27238.2	13299.5	6072.7	3471.4	2277.2
75°	19434.3	18928.2	20703.9	26567.9	32613.9	32938.0	23140.9	8674.0	3329.3	2139.6	1602.5
77.5°	8860.4	9082.4	11395.1	17822.9	25134.1	25515.8	15212.7	3751.0	1824.5	1500.4	1180.8
80°	2845.5	2987.5	4434.6	8860.4	15754.3	16442.4	7031.5	1704.6	1300.7	1149.7	883.4
82.5°	1087.6	1083.1	1860.0	3684.4	7466.5	7906.0	2570.2	1038.7	967.7	847.9	625.9
85°	381.8	399.5	701.4	1456.0	2938.7	3076.3	892.3	577.1	670.3	568.2	359.6
87.5°	133.2	137.6	248.6	528.3	1012.1	1069.8	248.6	230.8	332.9	328.5	182.0
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°	6019.4	6019.4	6019.4	6019.4	6019.4	6019.4	6019.4	6019.4	6019.4	6019.4	6019.4
2.5°	6081.5	6121.5	6134.8	6294.6	6294.6	6294.6	6356.8	6356.8	6339.0	6294.6	6401.2
5°	6108.2	6179.2	6316.8	6454.4	6489.9	6521.0	6605.4	6534.3	6561.0	6516.6	6556.5
7.5°	6183.6	6281.3	6538.8	6623.1	6565.4	6632.0	6543.2	6494.4	6445.5	6463.3	6401.2
10°	6312.4	6436.7	6556.5	6711.9	6600.9	6534.3	6352.3	6307.9	6152.6	6099.3	6148.1
12.5°	6472.2	6623.1	6827.3	6769.6	6556.5	6365.6	6170.3	5983.9	5890.7	5757.5	5793.0
15°	6632.0	6805.1	6836.2	6738.5	6472.2	6232.5	5877.3	5615.4	5522.2	5402.4	5464.5
17.5°	6805.1	6969.4	6916.1	6663.1	6303.5	5939.5	5535.5	5278.1	5082.7	5007.3	5007.3
20°	7062.6	7142.5	7058.1	6538.8	6099.3	5619.9	5229.2	4936.3	4740.9	4709.9	4661.0
22.5°	7262.3	7391.1	7013.7	6356.8	5801.9	5202.6	4754.3	4643.3	4585.6	4536.7	4474.6
25°	7519.8	7515.4	6933.8	6188.1	5291.4	4705.4	4434.6	4425.8	4399.1	4381.4	4465.7
27.5°	7764.0	7661.9	6840.6	5770.8	4763.1	4328.1	4181.6	4279.3	4319.2	4292.6	4328.1
30°	8150.2	7981.5	6707.4	5326.9	4297.0	3946.3	3973.0	4106.1	4172.7	4212.7	4159.4
32.5°	8558.5	8301.1	6432.2	4865.2	3884.2	3706.6	3768.8	3906.4	3986.3	4030.7	4079.5
35°	9148.9	8549.7	6152.6	4261.5	3586.8	3560.1	3595.7	3671.1	3786.5	3817.6	3830.9
37.5°	9877.0	8927.0	5775.2	3777.7	3355.9	3387.0	3422.5	3449.2	3453.6	3511.3	3489.1
40°	10605.0	9246.6	5224.8	3316.0	3116.2	3284.9	3267.2	3218.3	3178.4	3125.1	3111.8
42.5°	11244.2	9526.3	4612.2	2925.4	2903.2	3178.4	3120.7	2996.4	2903.2	2863.2	2796.6
45°	11963.3	9921.3	3995.2	2681.2	2738.9	3049.6	3031.9	2841.0	2721.2	2579.1	2561.3
47.5°	12895.5	10334.2	3404.8	2428.2	2583.5	3000.8	3009.7	2765.5	2592.4	2401.5	2374.9
50°	14089.6	10929.0	2956.4	2321.6	2490.3	2929.8	2943.1	2663.4	2437.1	2241.7	2224.0
52.5°	15234.9	11537.2	2583.5	2157.4	2428.2	2845.5	2876.5	2570.2	2308.3	2064.2	2077.5
55°	15812.0	11315.2	2263.9	2037.5	2286.1	2707.8	2823.3	2503.6	2113.0	1944.3	1939.9
57.5°	15940.7	10769.2	2010.9	1913.2	2166.3	2561.3	2734.5	2303.9	2024.2	1882.2	1864.4
60°	15519.0	9814.8	1811.1	1780.1	2015.3	2410.4	2530.3	2197.3	1935.4	1820.0	1793.4
62.5°	14480.3	8824.9	1673.5	1717.9	1886.6	2246.2	2401.5	2121.9	1851.1	1771.2	1713.5
65°	11874.5	7257.9	1562.6	1598.1	1753.4	2086.4	2321.6	2037.5	1775.6	1700.2	1695.7
67.5°	8225.6	5002.8	1473.8	1540.4	1646.9	1971.0	2241.7	1944.3	1678.0	1651.3	1615.8
70°	4212.7	2667.9	1358.4	1411.6	1531.5	1824.5	2099.7	1846.7	1575.9	1571.4	1527.0
72.5°	2135.2	1562.6	1225.2	1305.1	1389.4	1633.6	1922.1	1717.9	1447.1	1398.3	1327.3
73°	1846.7	1447.1	1203.0	1274.0	1353.9	1580.3	1868.9	1686.9	1429.4	1358.4	1291.8
75°	1345.0	1140.8	1078.7	1149.7	1211.9	1424.9	1691.3	1544.8	1314.0	1238.5	1176.4
77.5°	1007.7	878.9	896.7	976.6	1029.9	1229.6	1504.8	1398.3	1189.7	1087.6	1060.9
80°	741.3	670.3	741.3	816.8	856.7	1083.1	1371.7	1211.9	1003.2	887.8	865.6
82.5°	528.3	488.3	572.6	621.5	639.2	896.7	1234.1	967.7	759.1	608.2	559.3
85°	301.9	297.4	386.2	381.8	395.1	523.8	812.4	643.7	488.3	372.9	364.0
87.5°	133.2	146.5	195.3	155.4	164.2	248.6	346.2	239.7	199.8	111.0	84.3
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)