

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: P478612

Luminaire Tested: **IFLD-L-SA7C-750-U-T4W**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478612  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7C-750-U-T4W  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens  
Light Source: (112) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

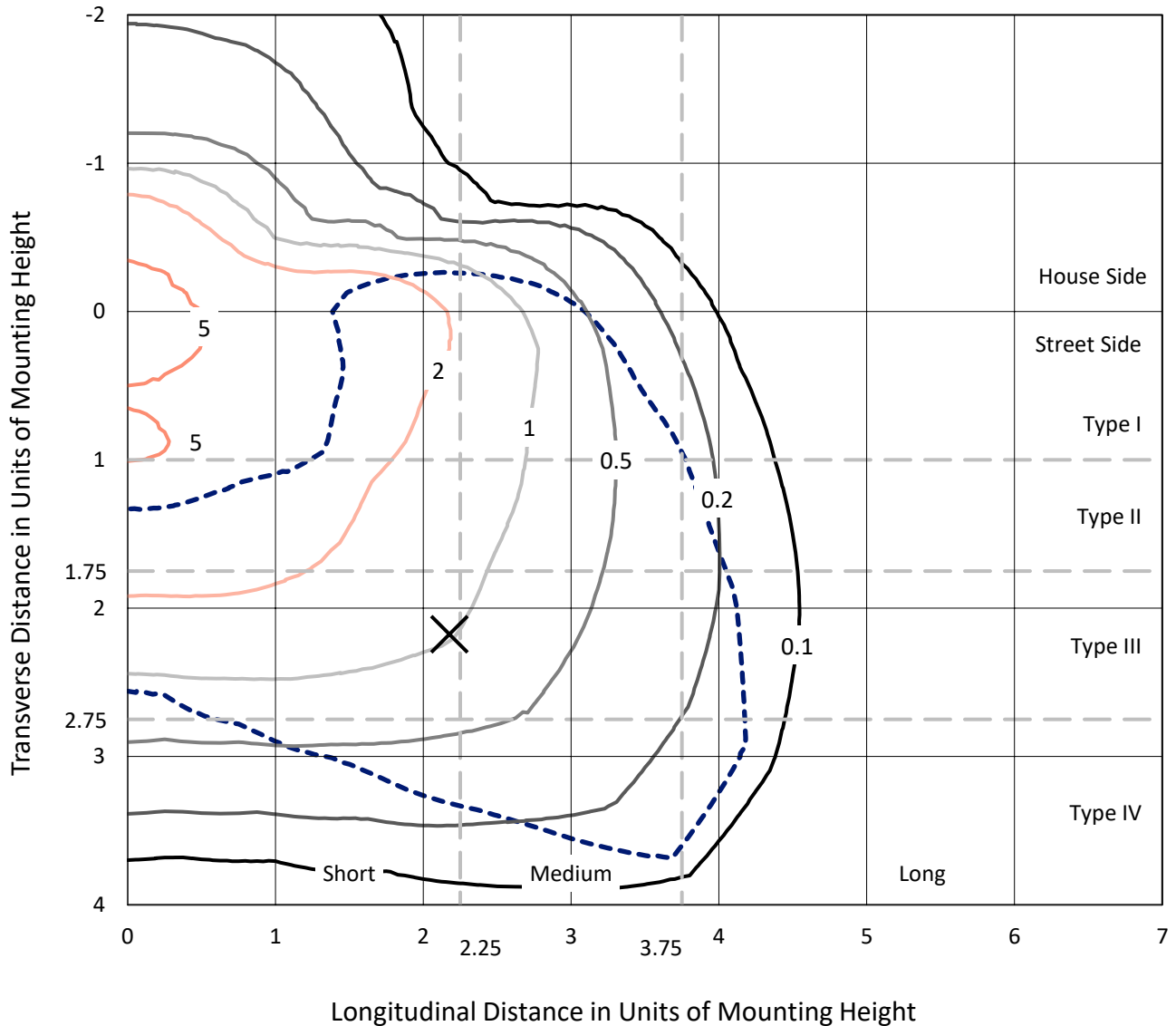
Lumens per Lamp: N/A  
Luminaire Lumens: 45834.9 lumens  
Efficiency: N/A  
Efficacy: 124.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5

Input Watts (W): 369  
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

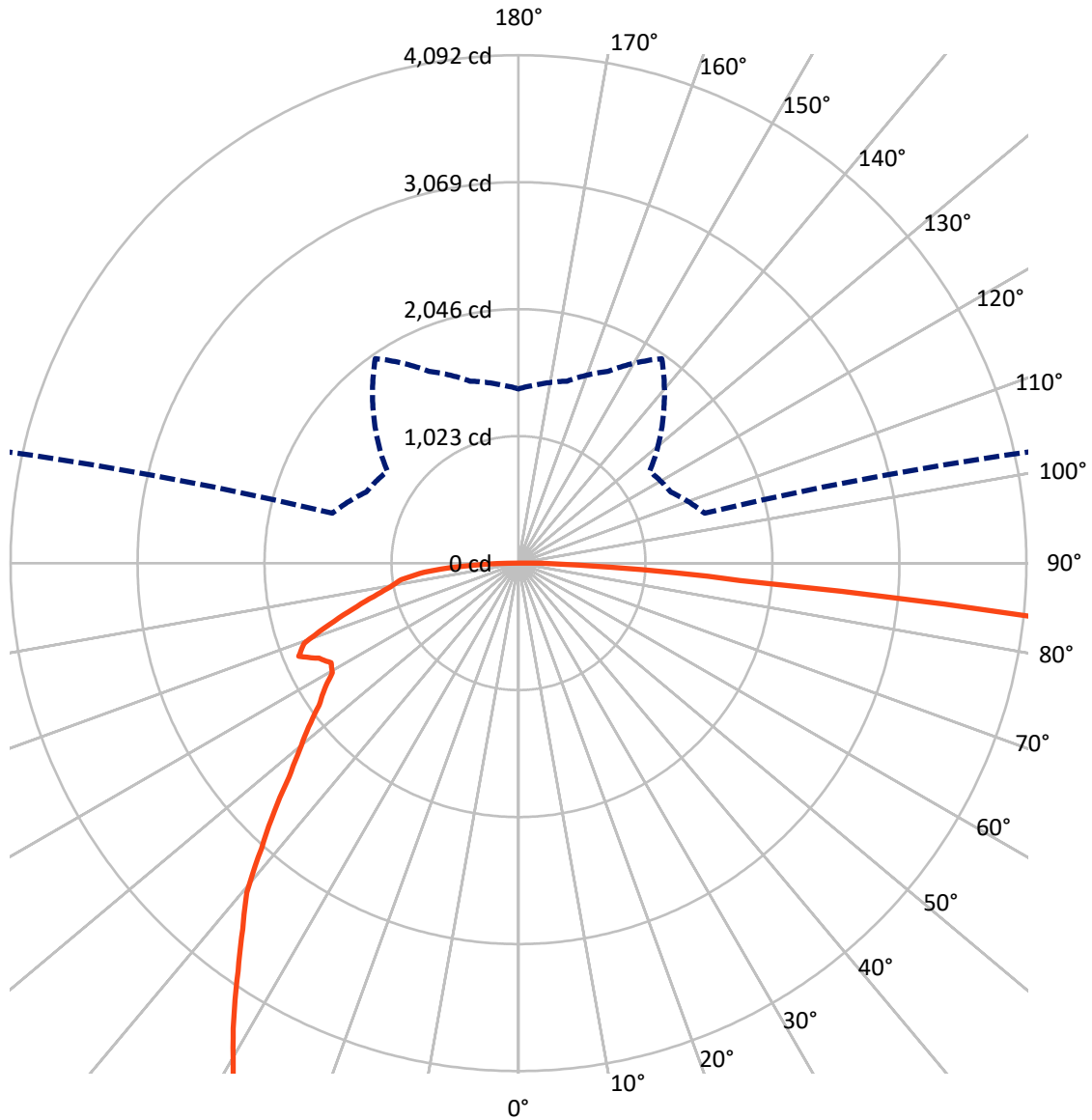
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.7 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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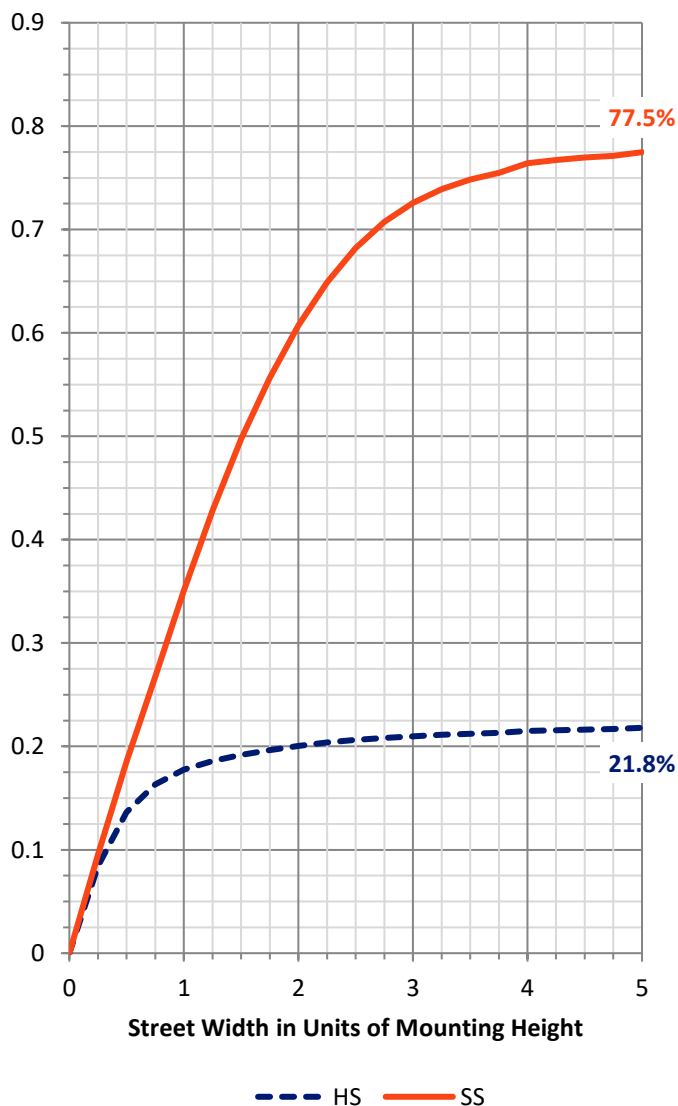
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10203.1	0.0	10203.1
	% Fixture	22.3	0.0	22.3
<b>Street Side</b>	Lumens	35631.7	0.0	35631.7
	% Fixture	77.7	0.0	77.7
<b>Total</b>	Lumens	45834.9	0.0	45834.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	483.0	1.1
10°-20°	1607.0	3.5
20°-30°	2713.7	5.9
30°-40°	3755.4	8.2
40°-50°	5371.7	11.7
50°-60°	8664.0	18.9
60°-70°	12778.1	27.9
70°-80°	9279.1	20.2
80°-90°	1182.9	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°	45834.9	100.0
0°-180°	45834.9	100.0

**Coefficient of Utilization**



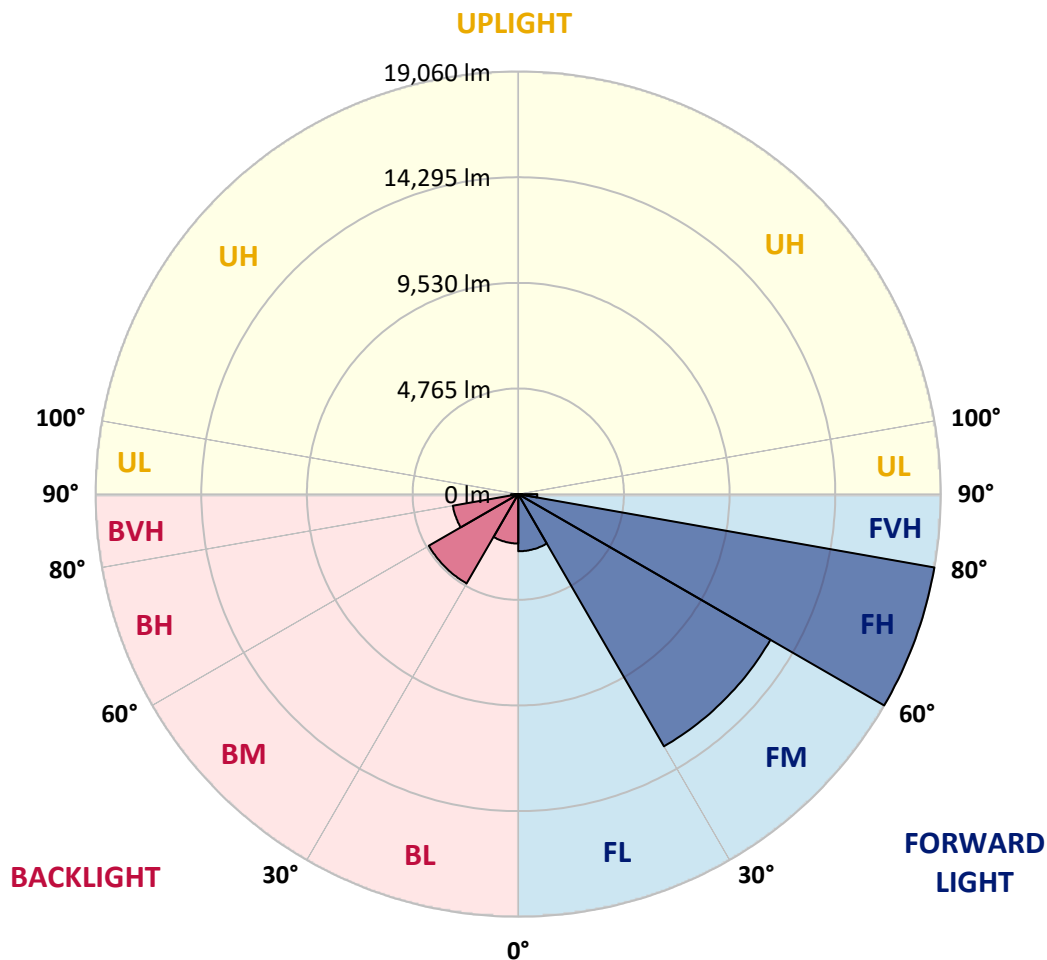
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2575.9	5.6			
FM (30°-60°)	13134.7	28.7			
FH (60°-80°)	19060.2	41.6			G5
FVH (80°-90°)	860.9	1.9			G5
BL (0°-30°)	2227.8	4.9	B3/2500		
BM (30°-60°)	4656.4	10.2	B3/5000		
BH (60°-80°)	2997.0	6.5	B4/5000		G4/5000
BVH (80°-90°)	321.9	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°	4720.2	4720.2	4720.2	4720.2	4720.2	4720.2	4720.2	4720.2	4720.2	4720.2	4720.2
2.5°	4972.2	5001.9	4972.2	4967.3	4917.9	4883.3	4912.9	4868.4	4819.0	4799.2	4754.8
5°	5426.9	5431.9	5377.5	5382.5	5278.7	5169.9	5189.7	5056.3	4912.9	4858.6	4769.6
7.5°	5891.6	5837.2	5758.1	5733.4	5570.3	5451.7	5436.8	5318.2	5095.8	4972.2	4848.7
10°	6193.0	6212.8	6084.3	5975.6	5837.2	5693.8	5688.9	5466.5	5338.0	5155.1	4996.9
12.5°	6459.9	6464.9	6356.2	6183.2	6010.2	5832.2	5857.0	5758.1	5540.6	5367.6	5209.5
15°	6667.5	6637.9	6519.3	6361.1	6178.2	6039.8	6025.0	5941.0	5758.1	5614.8	5352.8
17.5°	6726.8	6712.0	6593.4	6425.3	6247.4	6143.6	6183.2	6044.8	5970.6	5842.1	5590.1
20°	6613.2	6578.6	6558.8	6371.0	6242.5	6232.6	6198.0	6227.6	6104.1	5985.5	5802.6
22.5°	6405.6	6390.8	6380.9	6232.6	6173.3	6217.8	6277.1	6321.6	6301.8	6188.1	5980.5
25°	6193.0	6262.2	6198.0	6128.8	6212.8	6326.5	6311.7	6455.0	6455.0	6420.4	6247.4
27.5°	6341.3	6296.8	6247.4	6212.8	6242.5	6420.4	6410.5	6583.5	6647.8	6583.5	6385.8
30°	6712.0	6667.5	6524.2	6371.0	6331.4	6524.2	6573.6	6726.8	6756.5	6598.3	6430.3
32.5°	7408.9	7384.2	7156.8	6707.1	6464.9	6573.6	6598.3	6771.3	6746.6	6647.8	6578.6
35°	8441.9	8357.9	8041.6	7280.4	6746.6	6637.9	6573.6	6712.0	6805.9	6756.5	6692.2
37.5°	9573.8	9479.9	9089.4	8125.6	7255.7	6810.9	6761.4	6875.1	6983.9	6959.1	6825.7
40°	10656.2	10656.2	10305.3	9183.3	8011.9	7231.0	7240.9	7112.4	7211.2	7166.7	7191.4
42.5°	11723.8	11684.2	11540.9	10423.9	8822.5	7932.8	7774.7	7453.4	7631.3	7616.5	7651.1
45°	12806.2	12776.6	12737.0	11580.5	9984.0	8881.8	8797.8	8219.5	8382.6	8313.4	8461.7
47.5°	13671.2	13705.8	13705.8	12870.5	11224.6	10147.1	10023.5	9109.2	9420.5	9455.1	9489.7
50°	14407.6	14422.4	14407.6	14101.2	12608.5	11595.3	11343.2	10414.0	10725.4	10997.2	11313.6
52.5°	15425.8	15445.5	15376.4	15257.7	14486.7	13117.6	12835.9	11802.9	12440.5	12727.1	13295.5
55°	16681.2	16532.9	16404.4	16493.4	16290.7	14793.1	14501.5	13236.2	14195.1	14575.7	15712.4
57.5°	16913.5	17042.0	17368.2	18075.0	18366.6	16424.2	16256.1	14995.8	16177.1	16508.2	18406.2
60°	17734.0	17521.4	18322.1	19854.3	20180.5	18549.5	18376.5	16923.4	18149.1	18495.1	20892.3
62.5°	18272.7	18262.8	19449.0	21267.9	22009.3	20753.9	20403.0	19429.3	20279.4	20615.5	23600.8
65°	18114.5	18257.9	20363.4	22098.3	23536.5	23259.8	23057.1	21584.2	22706.2	22676.5	25365.3
67.5°	16671.3	17076.6	19785.1	22696.3	25810.1	26314.3	26250.0	24614.0	24678.3	24050.6	26151.2
70°	14669.6	14531.2	17338.6	22073.5	26946.9	29937.2	29922.4	26867.8	26452.7	24352.1	23897.4
72°	11269.1	11115.9	13424.0	18954.8	26348.9	31385.4	31830.2	28429.7	26432.9	23101.6	19740.6
72.5°	10231.1	10097.7	12396.0	17842.7	25686.6	31761.0	31553.4	28489.0	26225.3	22513.4	18440.8
75°	4710.3	4557.1	6193.0	10923.1	20037.2	28143.0	28849.8	26660.3	22903.9	17921.8	11046.7
77.5°	1403.7	1359.2	1991.9	4408.8	11644.7	20734.1	21005.9	20116.3	15989.2	9816.0	4097.4
80°	780.9	785.9	1028.1	1650.8	5120.5	11985.7	12964.4	12425.6	7843.9	3242.3	1364.2
82.5°	434.9	459.7	642.5	978.6	2352.7	5501.1	5921.2	5708.7	2837.0	1522.3	746.3
85°	227.4	237.2	336.1	523.9	1334.5	1739.8	1789.2	1917.7	1472.9	1037.9	400.3
87.5°	89.0	89.0	123.6	217.5	494.3	538.7	484.4	588.2	845.2	672.2	197.7
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°	4720.2	4720.2	4720.2	4720.2	4720.2	4720.2	4720.2	4720.2	4720.2	4720.2	4720.2
2.5°	4794.3	4754.8	4749.8	4685.6	4705.3	4651.0	4655.9	4646.0	4651.0	4641.1	4616.4
5°	4769.6	4739.9	4655.9	4710.3	4660.8	4730.0	4784.4	4764.6	4779.5	4774.5	4779.5
7.5°	4804.2	4764.6	4754.8	4725.1	4769.6	4799.2	4843.7	4967.3	4957.4	4972.2	5001.9
10°	4908.0	4863.5	4833.8	4878.3	4853.6	4947.5	4996.9	5061.2	5174.9	5179.8	5120.5
12.5°	5110.6	5081.0	5021.7	5031.5	5115.6	5145.2	5174.9	5214.4	5288.6	5273.7	5328.1
15°	5342.9	5278.7	5244.1	5234.2	5254.0	5288.6	5283.6	5323.2	5362.7	5397.3	5382.5
17.5°	5511.0	5426.9	5436.8	5486.3	5481.3	5471.4	5407.2	5387.4	5407.2	5426.9	5417.1
20°	5684.0	5693.8	5619.7	5575.2	5555.5	5456.6	5407.2	5347.9	5288.6	5318.2	5362.7
22.5°	5901.4	5857.0	5748.2	5614.8	5515.9	5456.6	5303.4	5199.6	5199.6	5229.2	5214.4
25°	6148.6	6054.7	5866.8	5624.7	5501.1	5249.0	5140.3	5125.5	5085.9	5130.4	5150.2
27.5°	6341.3	6257.3	6000.3	5590.1	5249.0	5046.4	4982.1	4962.3	5026.6	5031.5	5110.6
30°	6420.4	6395.7	6020.1	5501.1	4992.0	4665.8	4626.3	4715.2	4784.4	4888.2	4893.2
32.5°	6524.2	6534.1	6049.7	5293.5	4655.9	4329.7	4270.4	4379.1	4576.8	4660.8	4725.1
35°	6697.2	6746.6	6025.0	5036.5	4300.0	3988.7	3978.8	4008.4	4201.2	4349.5	4433.5
37.5°	6998.7	6988.8	6020.1	4730.0	4018.3	3692.1	3613.0	3622.9	3751.4	3875.0	3860.2
40°	7404.0	7364.4	6005.2	4329.7	3652.6	3440.0	3306.6	3257.2	3247.3	3212.7	3222.6
42.5°	7957.5	7878.5	6000.3	3924.4	3321.4	3094.1	3000.1	2871.6	2777.7	2599.8	2609.7
45°	8728.6	8590.2	5871.8	3543.8	2995.2	2807.4	2664.0	2570.1	2367.5	2145.1	2145.1
47.5°	9919.7	9470.0	5876.7	3123.7	2678.9	2525.7	2426.8	2263.7	2046.2	1868.3	1848.5
50°	11674.4	10646.3	5708.7	2792.6	2421.9	2318.1	2214.3	2026.5	1818.9	1695.3	1710.1
52.5°	13938.1	12400.9	5703.7	2496.0	2219.2	2145.1	2031.4	1863.4	1710.1	1631.1	1601.4
55°	16636.7	14723.9	5881.7	2253.8	2011.6	1972.1	1922.7	1784.3	1636.0	1566.8	1561.9
57.5°	19399.6	16992.6	6168.3	2080.8	1833.7	1863.4	1828.8	1720.0	1601.4	1522.3	1512.4
60°	21856.1	18791.7	5590.1	1873.2	1675.5	1739.8	1789.2	1695.3	1631.1	1626.1	1591.5
62.5°	23709.5	19562.7	4250.6	1715.1	1591.5	1710.1	1843.6	1902.9	1873.2	1912.8	1917.7
65°	24386.7	19098.1	2926.0	1631.1	1527.3	1779.3	2075.9	2056.1	1883.1	1809.0	1848.5
67.5°	23437.7	17215.0	2169.8	1532.2	1482.8	1922.7	2209.3	1962.2	1700.2	1690.4	1660.7
70°	20155.8	14590.5	1769.4	1428.4	1408.6	1843.6	2150.0	1818.9	1601.4	1537.1	1507.5
72°	16058.4	11363.0	1552.0	1354.3	1290.0	1645.9	2011.6	1705.2	1517.4	1438.3	1403.7
72.5°	14659.7	10532.6	1522.3	1319.7	1265.3	1601.4	1942.4	1670.6	1497.6	1428.4	1374.0
75°	8041.6	5392.4	1339.4	1210.9	1067.6	1383.9	1799.1	1566.8	1413.6	1314.7	1304.8
77.5°	2990.3	2090.7	1156.6	1072.5	924.3	1196.1	1636.0	1487.7	1285.1	1161.5	1136.8
80°	1146.7	1102.2	944.0	904.5	776.0	1047.8	1507.5	1334.5	1092.3	968.7	929.2
82.5°	696.9	642.5	716.7	706.8	593.1	953.9	1418.5	1250.5	968.7	785.9	761.2
85°	380.6	380.6	499.2	479.4	415.2	761.2	1072.5	830.4	612.9	504.1	514.0
87.5°	168.0	197.7	266.9	252.1	227.4	430.0	523.9	439.9	306.4	207.6	222.4
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)