

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: P480175

Luminaire Tested: **IFLD-L-SA8A-750-U-SL2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480175  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8A-750-U-SL2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens  
Light Source: (128) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

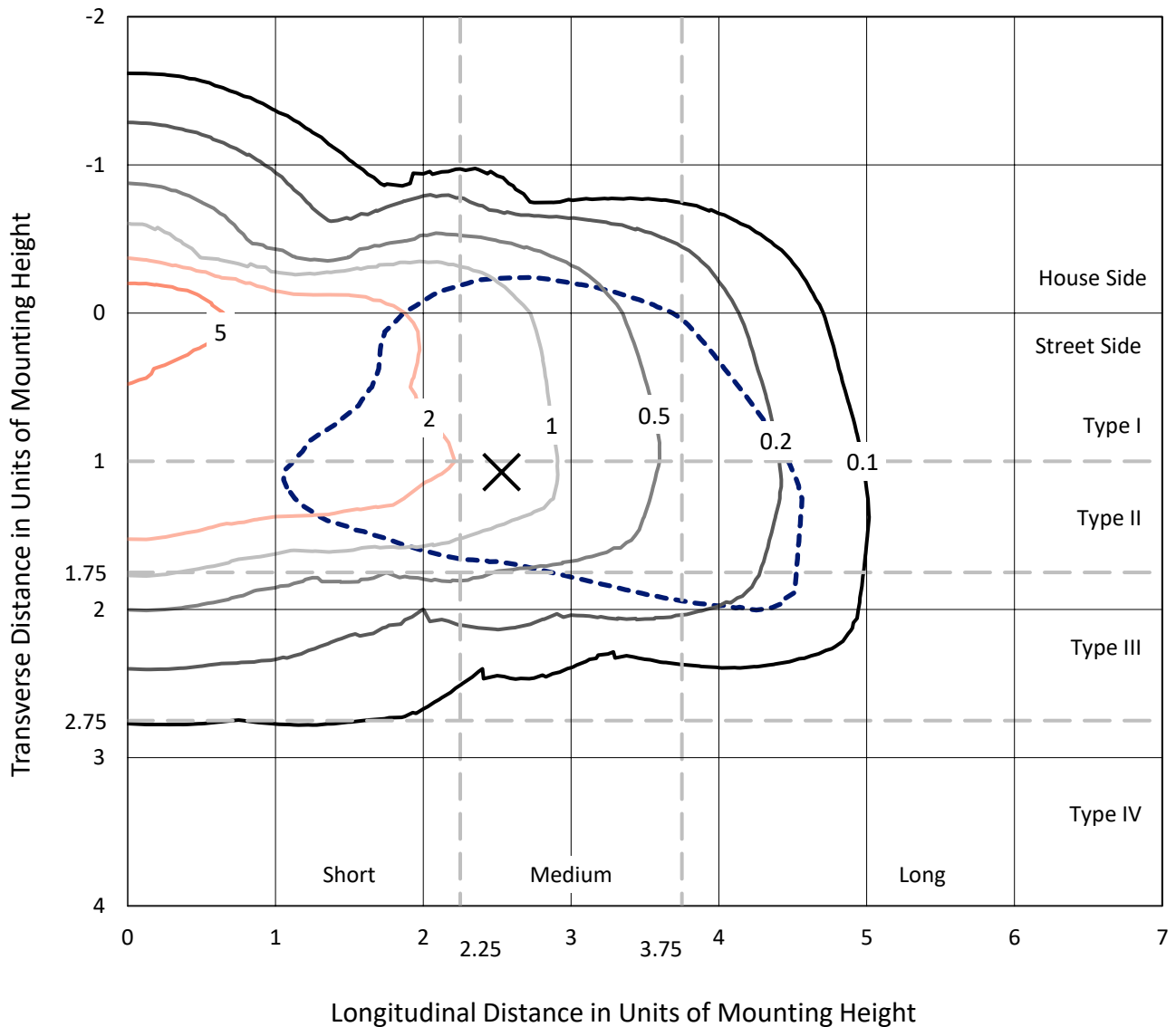
Lumens per Lamp: N/A  
Luminaire Lumens: 34937.6 lumens  
Efficiency: N/A  
Efficacy: 141.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

Input Watts (W): 247.8  
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

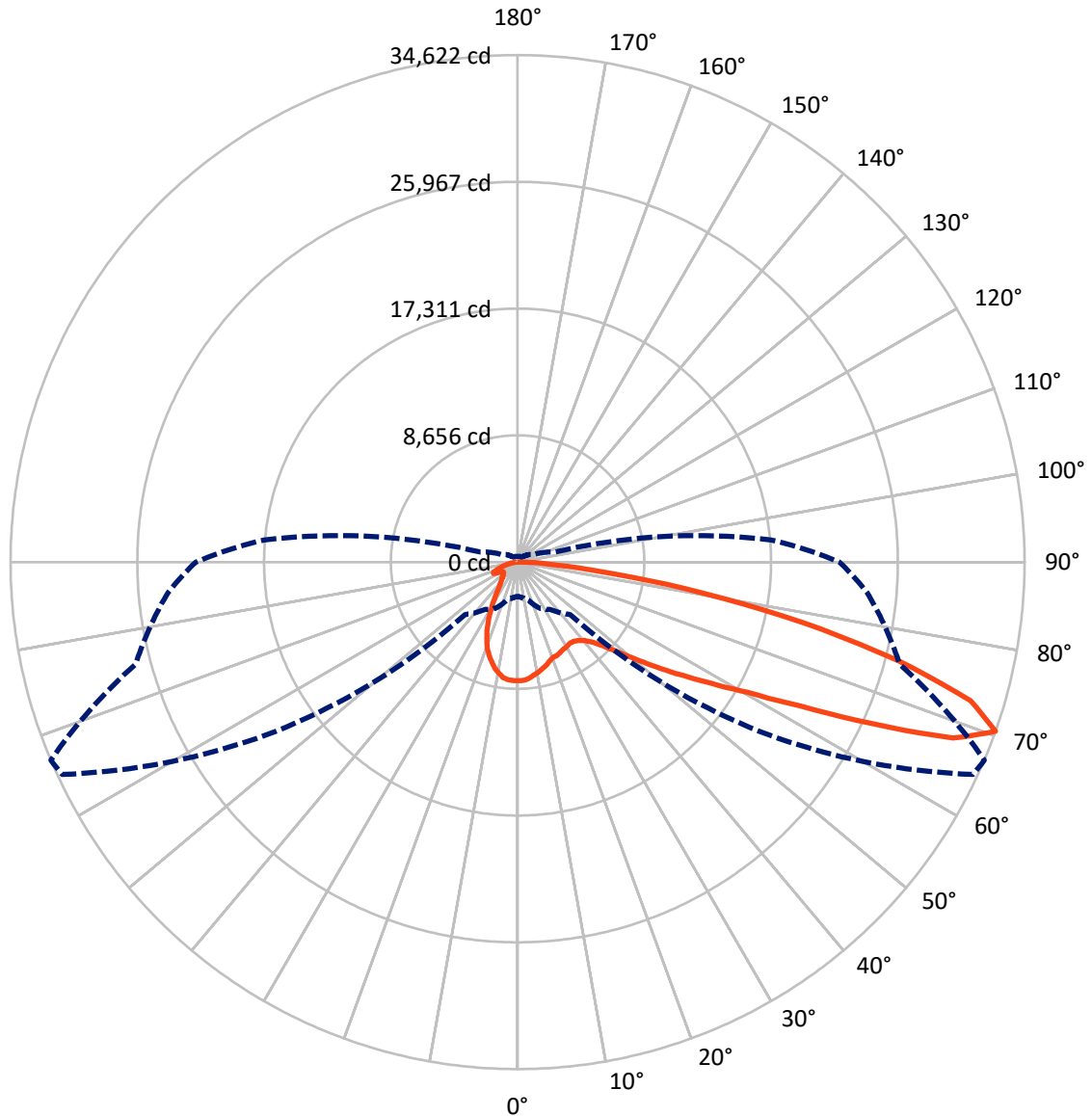
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.1 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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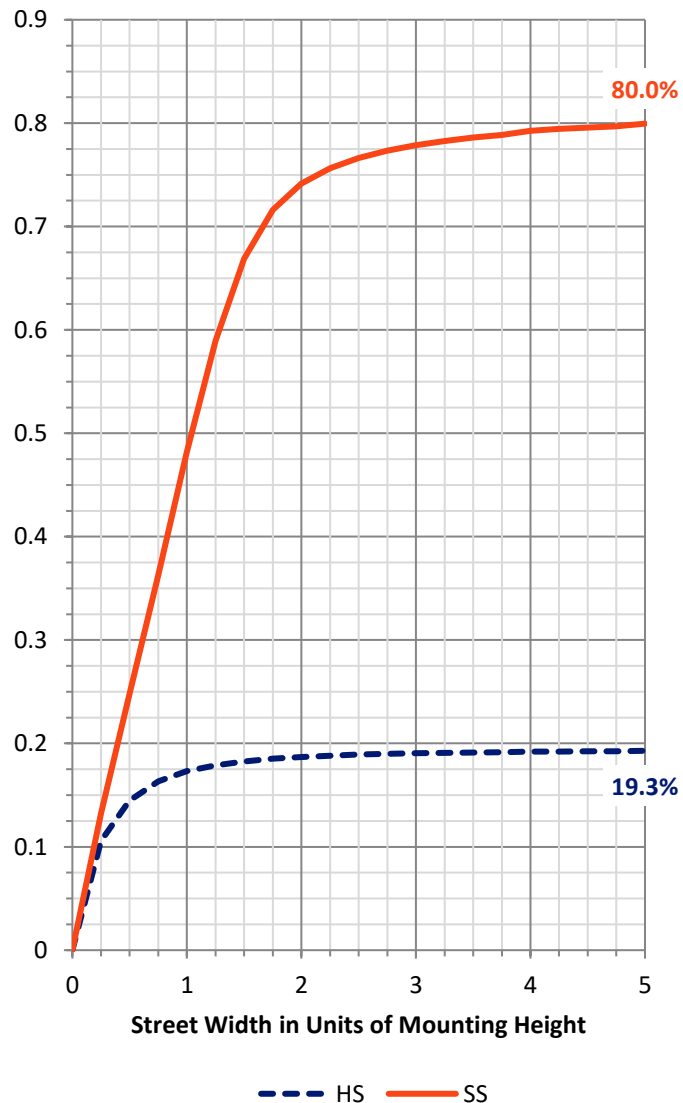
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6804.4	0.0	6804.4
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	28133.2	0.0	28133.2
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	34937.6	0.0	34937.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	705.7	2.0
10°-20°	1690.1	4.8
20°-30°	2282.4	6.5
30°-40°	3054.0	8.7
40°-50°	4490.8	12.9
50°-60°	7000.1	20.0
60°-70°	8623.0	24.7
70°-80°	6092.9	17.4
80°-90°	998.7	2.9
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°	34937.6	100.0
0°-180°	34937.6	100.0

**Coefficient of Utilization**

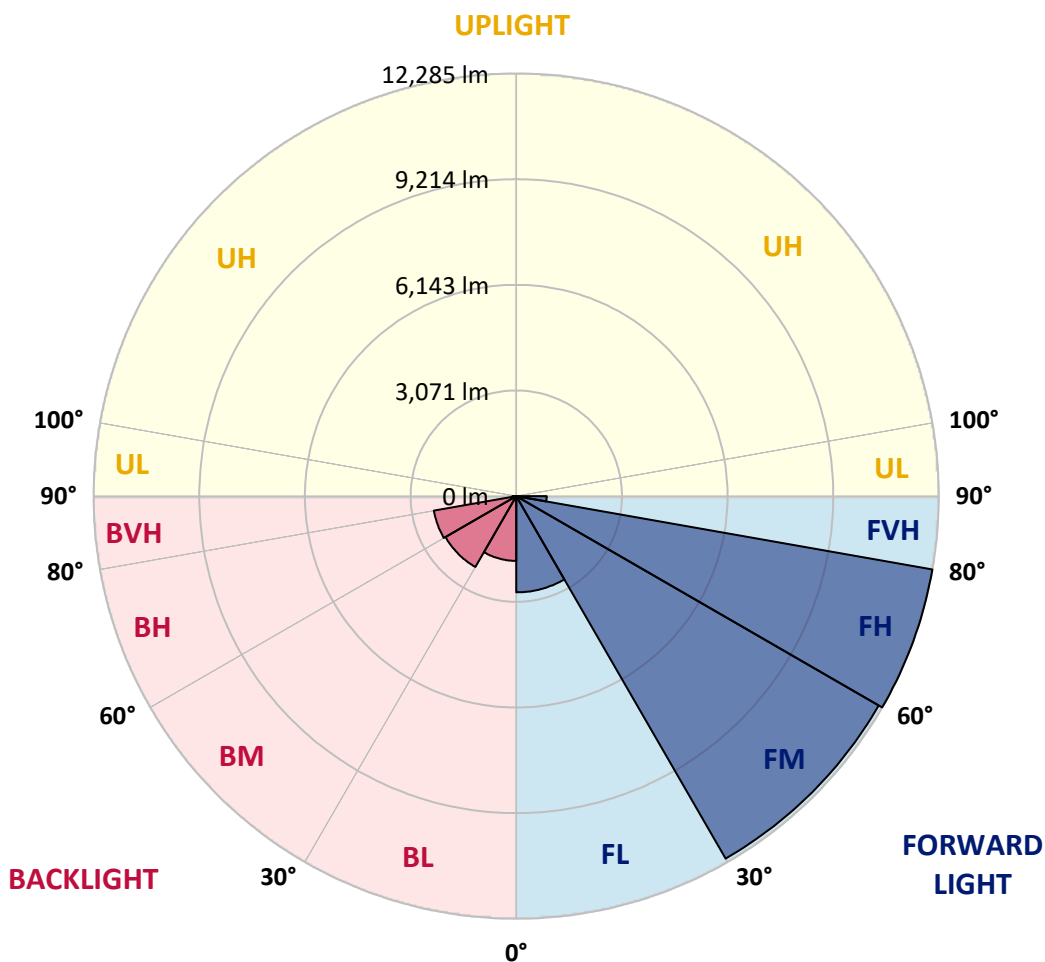


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2796.5	8.0			
FM (30°-60°)	12168.0	34.8			
FH (60°-80°)	12285.2	35.2			G5
FVH (80°-90°)	883.5	2.5			G5
BL (0°-30°)	1881.7	5.4	B3/2500		
BM (30°-60°)	2376.9	6.8	B2/2500		
BH (60°-80°)	2430.6	7.0	B3/2500		G3/2500
BVH (80°-90°)	115.2	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	8087.9	8087.9	8087.9	8087.9	8087.9	8087.9	8087.9	8087.9	8087.9	8087.9	8087.9
2.5°	7531.0	7616.1	7647.0	7693.4	7813.3	7902.3	7956.4	8018.3	8091.8	8153.7	8192.4
5°	7004.9	7051.3	7124.8	7175.1	7326.0	7565.8	7728.2	7991.2	7983.5	8080.2	8227.2
7.5°	6494.3	6540.8	6575.6	6676.1	6892.7	7109.3	7407.2	7832.7	7801.7	8026.1	8254.3
10°	6177.2	6142.4	6154.0	6324.1	6494.3	6738.0	7113.2	7546.4	7658.6	8006.7	8331.6
12.5°	5879.3	5840.6	5933.5	6041.8	6250.7	6471.1	6919.8	7310.5	7480.7	7937.1	8366.4
15°	5693.7	5666.6	5782.6	5829.0	6076.6	6339.6	6656.8	7132.6	7318.2	7852.0	8312.3
17.5°	5589.2	5612.4	5655.0	5755.6	5914.1	6138.5	6486.6	7012.6	7093.9	7747.6	8300.7
20°	5608.6	5635.6	5639.5	5682.1	5790.4	5964.4	6320.3	6885.0	6939.2	7728.2	8331.6
22.5°	5763.3	5724.6	5740.1	5713.0	5744.0	5879.3	6192.6	6714.8	6923.7	7565.8	8265.9
25°	5995.4	5941.2	5933.5	5840.6	5782.6	5821.3	6169.4	6672.3	6807.6	7515.5	8262.0
27.5°	6405.4	6324.1	6324.1	6184.9	5949.0	5887.1	6103.7	6602.6	6722.5	7469.1	8173.0
30°	6799.9	6799.9	6803.8	6606.5	6343.5	6037.9	6130.7	6575.6	6652.9	7329.8	8053.1
32.5°	7279.5	7267.9	7248.6	7151.9	6745.8	6289.3	6262.3	6540.8	6579.4	7283.4	8018.3
35°	7747.6	7716.6	7867.5	7782.4	7368.5	6780.6	6397.6	6556.2	6641.3	7213.8	7910.0
37.5°	8099.6	8118.9	8432.2	8486.3	8130.5	7337.6	6780.6	6710.9	6792.2	7314.4	7910.0
40°	8556.0	8633.3	8927.3	9109.1	8892.5	8072.5	7387.8	6970.1	7028.1	7538.7	8080.2
42.5°	9155.5	9221.3	9596.5	9832.4	9770.5	9008.5	7987.4	7511.6	7465.2	7913.9	8335.5
45°	9948.4	9960.0	10339.1	10664.0	10791.7	9987.1	8938.9	8196.2	8157.6	8559.8	8803.5
47.5°	10892.2	10880.6	11116.6	11464.7	11808.9	11155.3	10033.5	9236.7	9097.5	9484.3	9581.0
50°	11805.1	11754.8	11808.9	12253.8	12915.2	12617.4	11364.1	10509.3	10370.1	10582.8	10749.1
52.5°	12307.9	12369.8	12222.8	12810.7	14091.1	14346.3	13127.9	12029.4	11909.5	12013.9	12304.0
55°	11955.9	12083.6	11986.9	12543.9	14605.5	16454.4	15410.0	13789.3	13634.6	13595.9	14071.7
57.5°	10459.0	10691.1	10710.4	11592.3	14427.6	18086.7	18620.5	15866.5	15634.4	15239.8	15731.1
60°	8029.9	8262.0	8439.9	9484.3	12903.6	19061.4	22341.5	18821.6	18055.7	17034.6	17328.6
62.5°	5627.9	5786.5	5964.4	6606.5	9948.4	18488.9	25559.6	22983.5	21571.7	18926.0	19293.5
65°	4100.1	4223.8	4405.6	4784.7	6111.4	15297.9	27052.7	27926.8	26588.5	21331.9	21285.5
67.5°	3086.6	3164.0	3403.8	4011.1	4235.4	9449.5	25505.5	33148.6	32065.6	24004.7	22886.8
70°	2336.3	2402.0	2626.4	3458.0	3956.9	5067.1	20121.2	34312.9	34622.3	27002.4	23962.1
72.5°	1609.1	1682.6	1934.0	2881.6	3767.4	4018.8	12629.0	31172.1	32344.0	28236.3	22809.5
75°	986.3	1036.6	1183.6	2185.4	3740.3	3929.9	6950.8	25544.1	26785.8	26089.5	19954.9
77.5°	696.2	692.4	719.4	1280.3	3241.4	3953.1	4285.7	18717.2	19924.0	19227.7	13541.8
80°	506.7	510.6	537.6	765.9	2200.9	4018.8	3376.7	12536.1	12895.8	10025.8	5341.7
82.5°	305.6	321.0	386.8	518.3	1322.8	3628.2	3121.5	6966.2	6517.5	3218.2	1469.8
85°	162.5	162.5	228.2	328.8	704.0	2707.6	3005.4	3314.9	2777.2	997.9	545.4
87.5°	38.7	38.7	65.8	131.5	282.4	1295.8	2050.0	1319.0	1056.0	336.5	224.3
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°	8087.9	8087.9	8087.9	8087.9	8087.9	8087.9	8087.9	8087.9	8087.9	8087.9	8087.9
2.5°	8176.9	8130.5	8188.5	8072.5	7979.6	7983.5	7840.4	7832.7	7813.3	7712.8	7747.6
5°	8269.7	8231.1	8165.3	8037.7	7832.7	7627.7	7503.9	7345.3	7279.5	7244.7	7260.2
7.5°	8358.7	8289.1	8099.6	7921.6	7604.4	7217.7	6993.3	6780.6	6509.8	6478.9	6424.7
10°	8381.9	8234.9	7991.2	7612.2	7190.6	6761.2	6250.7	5856.1	5647.3	5484.8	5422.9
12.5°	8347.1	8285.2	7817.2	7329.8	6691.6	6018.6	5422.9	4865.9	4479.1	4278.0	4223.8
15°	8343.2	8234.9	7623.8	6900.5	6084.3	5206.3	4359.2	3690.1	3283.9	3117.6	3117.6
17.5°	8347.1	8087.9	7395.6	6467.3	5368.8	4181.3	3249.1	2699.9	2475.5	2452.3	2471.6
20°	8269.7	7979.6	7155.8	5956.7	4471.4	3140.8	2359.5	2135.1	2135.1	2166.1	2177.7
22.5°	8200.1	7817.2	6776.7	5326.2	3558.5	2274.4	1918.5	1852.8	1926.3	1980.4	2003.6
25°	8103.4	7681.8	6389.9	4672.5	2707.6	1833.4	1667.1	1682.6	1752.2	1848.9	1841.2
27.5°	7964.2	7445.9	5929.6	3914.4	2015.2	1582.0	1539.5	1547.2	1620.7	1663.2	1655.5
30°	7805.6	7206.0	5504.1	3160.1	1597.5	1450.5	1446.6	1466.0	1477.6	1500.8	1496.9
32.5°	7604.4	6888.9	5051.6	2456.2	1438.9	1377.0	1361.5	1349.9	1361.5	1357.7	1346.1
35°	7461.3	6718.7	4591.3	1872.1	1349.9	1311.2	1299.6	1280.3	1264.8	1241.6	1237.8
37.5°	7422.7	6548.5	4107.8	1527.9	1280.3	1261.0	1222.3	1187.5	1168.1	1156.5	1148.8
40°	7399.4	6436.3	3635.9	1342.2	1222.3	1202.9	1156.5	1110.1	1090.8	1079.2	1083.0
42.5°	7480.7	6374.4	3156.3	1249.4	1172.0	1137.2	1086.9	1032.8	1028.9	1021.1	1032.8
45°	7766.9	6451.8	2711.5	1183.6	1121.7	1063.7	997.9	970.9	967.0	959.3	967.0
47.5°	8416.7	6645.2	2332.4	1141.1	1067.6	1017.3	947.7	909.0	905.1	901.2	901.2
50°	9314.1	7240.9	2015.2	1090.8	1032.8	963.1	897.4	854.8	847.1	831.6	831.6
52.5°	10722.0	8242.7	1825.7	1063.7	970.9	912.8	843.2	796.8	777.5	762.0	762.0
55°	12307.9	9484.3	1790.9	1017.3	905.1	851.0	789.1	742.7	723.3	704.0	696.2
57.5°	14114.3	11128.2	2038.4	986.3	858.7	789.1	719.4	676.9	661.4	642.1	634.3
60°	15796.8	12768.2	2808.2	939.9	816.1	731.0	661.4	618.9	599.5	580.2	580.2
62.5°	17742.4	14798.9	4111.7	939.9	777.5	669.2	599.5	568.6	557.0	537.6	533.8
65°	20043.9	16899.2	5063.2	997.9	765.9	615.0	541.5	510.6	499.0	487.4	483.5
67.5°	21796.1	18106.0	4355.3	1152.7	816.1	568.6	483.5	464.2	456.4	444.8	437.1
70°	21981.7	17371.1	2626.4	1245.5	866.4	522.2	433.2	413.9	413.9	402.3	394.5
72.5°	20314.6	15413.9	1767.7	1110.1	785.2	468.0	382.9	367.5	359.7	352.0	348.1
75°	16999.8	13073.8	1396.3	885.8	603.4	386.8	332.6	317.2	305.6	301.7	294.0
77.5°	11418.3	8498.0	1032.8	692.4	444.8	313.3	278.5	263.0	251.4	247.6	235.9
80°	4386.3	3237.5	665.3	502.8	313.3	247.6	220.5	205.0	197.3	185.7	177.9
82.5°	1291.9	1048.2	371.3	309.4	201.1	170.2	158.6	147.0	135.4	123.8	119.9
85°	533.8	479.6	228.2	162.5	123.8	100.6	92.8	81.2	69.6	61.9	54.2
87.5°	247.6	205.0	104.4	61.9	42.5	23.2	11.6	3.9	0.0	0.0	0.0
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)