

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: P479978

Luminaire Tested: **IFLD-L-SA7D-722-U-SL2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P479978  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7D-722-U-SL2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens  
Light Source: (112) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

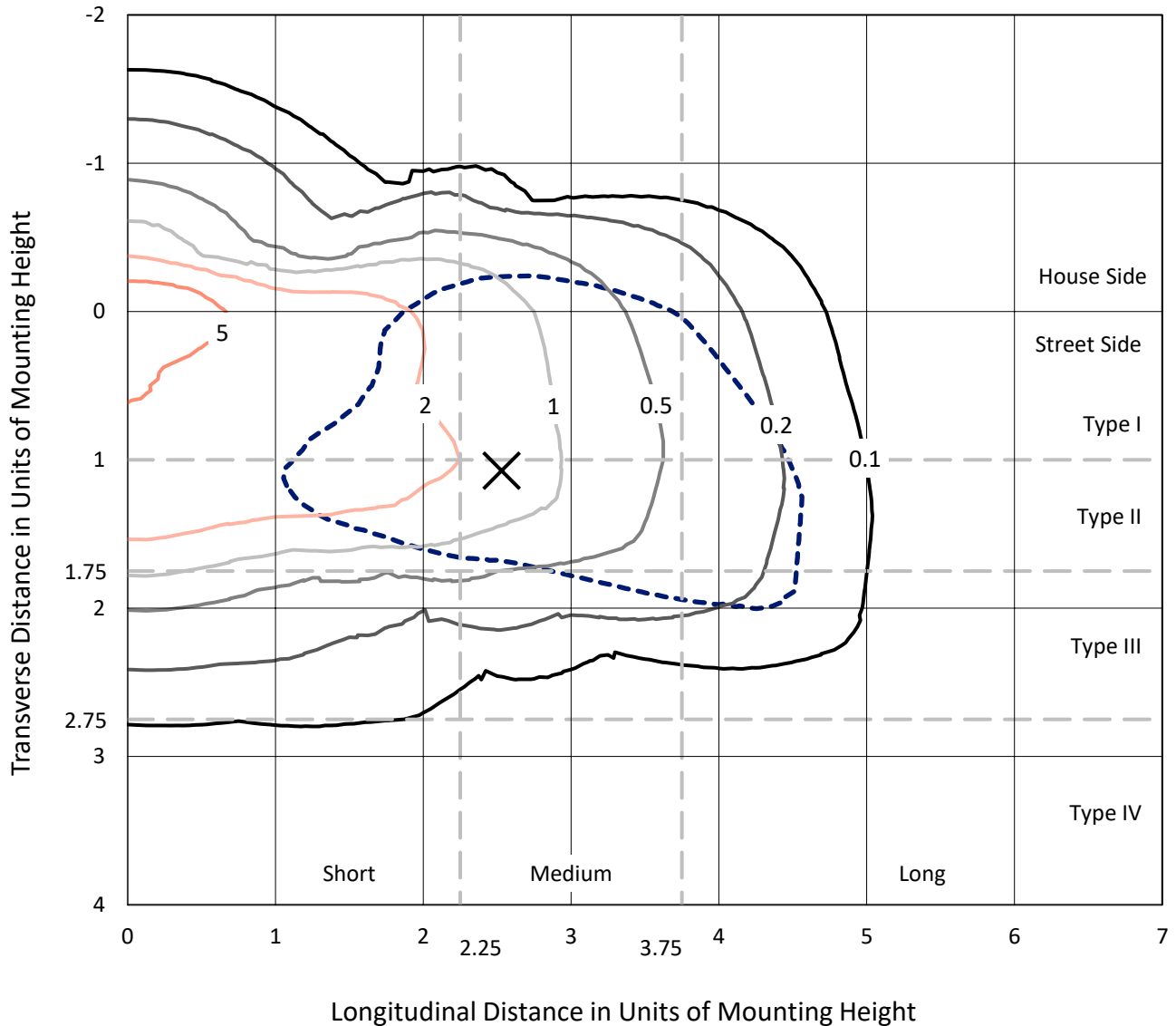
Lumens per Lamp: N/A  
Luminaire Lumens: 35824.9 lumens  
Efficiency: N/A  
Efficacy: 84.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

Input Watts (W): 422.6  
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

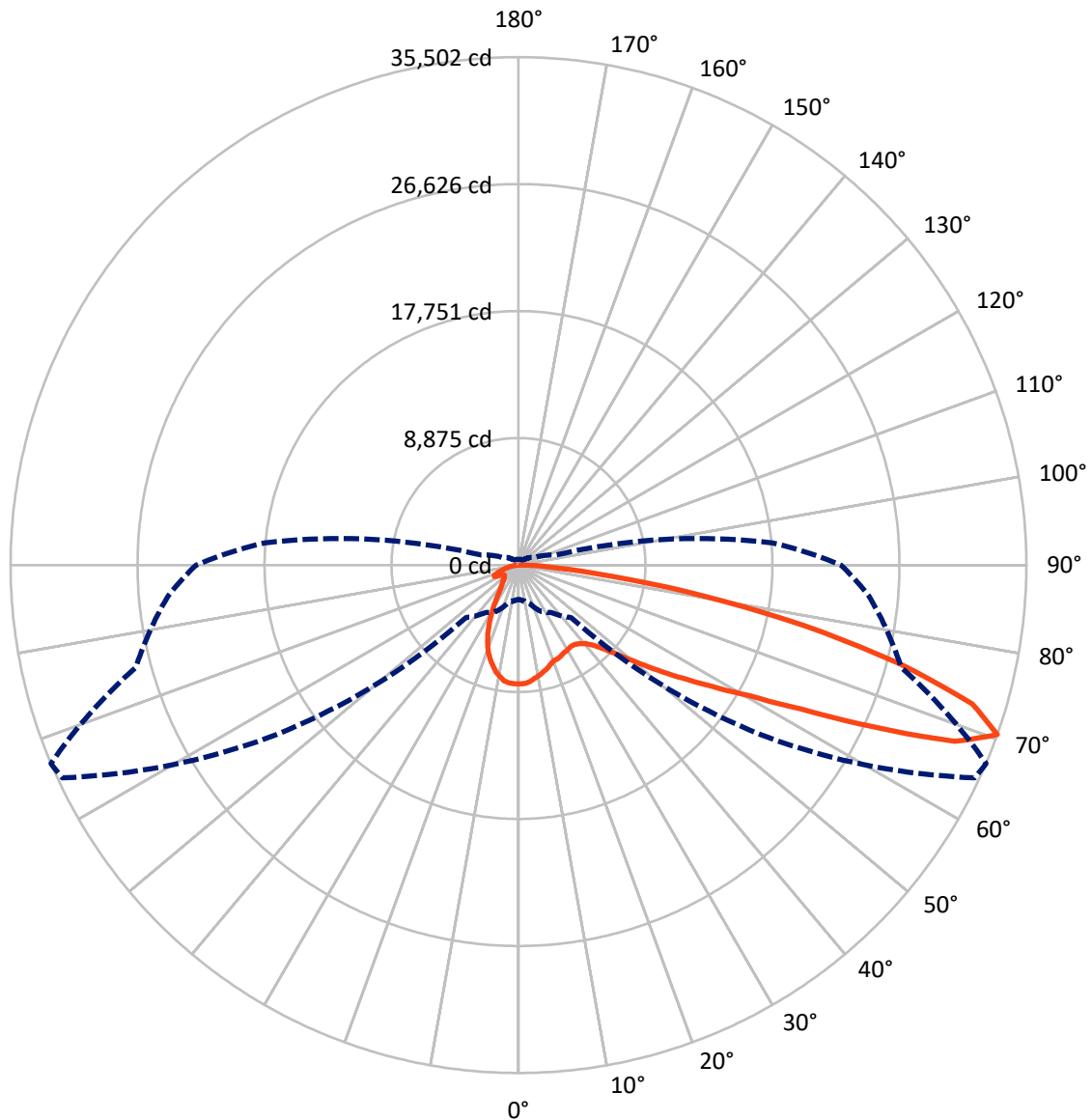
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.3 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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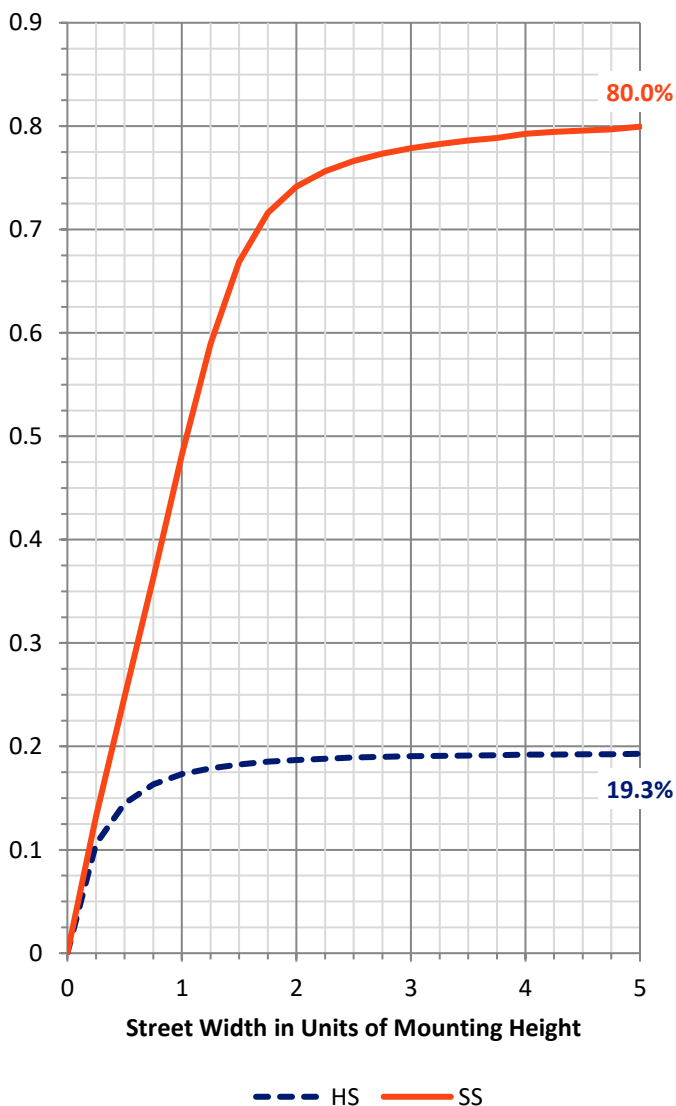
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6977.3	0.0	6977.3
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	28847.7	0.0	28847.7
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	35824.9	0.0	35824.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	723.6	2.0
10°-20°	1733.0	4.8
20°-30°	2340.3	6.5
30°-40°	3131.6	8.7
40°-50°	4604.9	12.9
50°-60°	7177.9	20.0
60°-70°	8842.0	24.7
70°-80°	6247.6	17.4
80°-90°	1024.0	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°	35824.9	100.0
0°-180°	35824.9	100.0

**Coefficient of Utilization**



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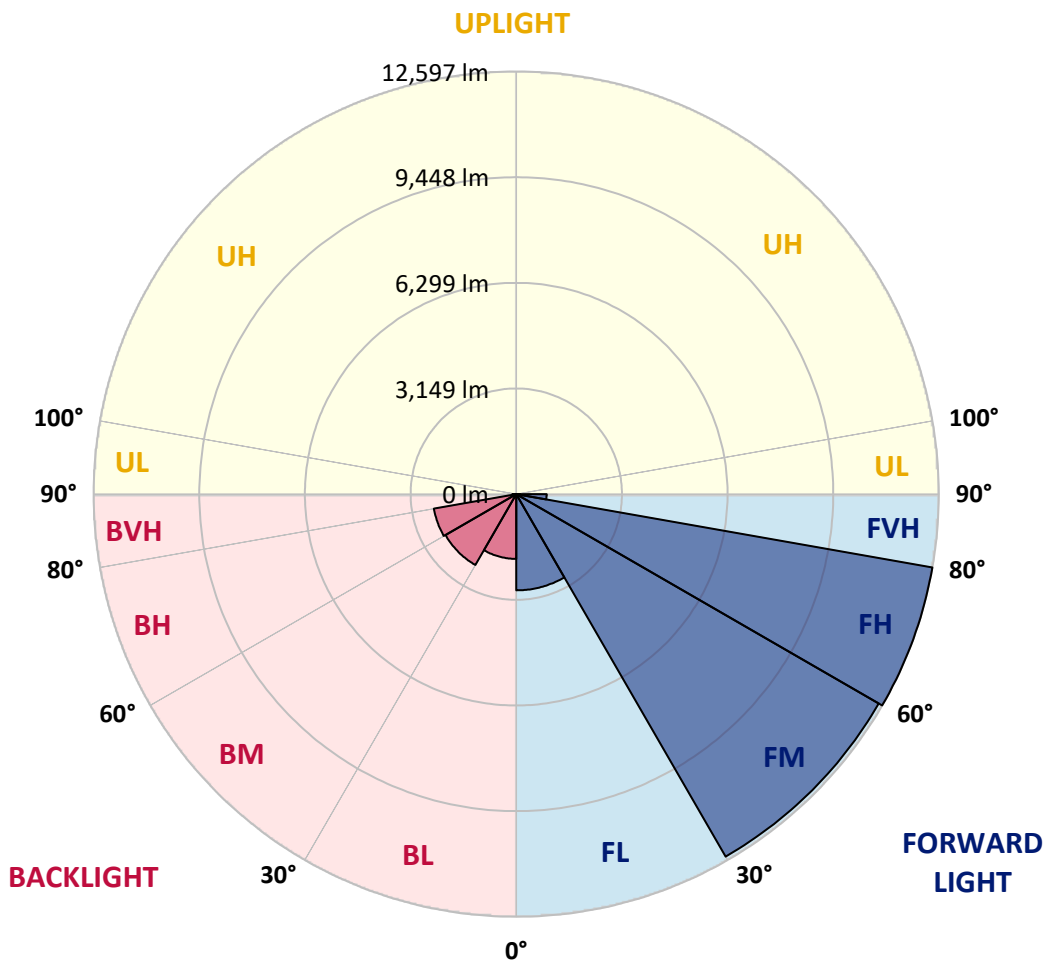
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2867.5	8.0			
FM	(30°-60°)	12477.1	34.8			
FH	(60°-80°)	12597.2	35.2			G5
FVH	(80°-90°)	905.9	2.5			G5
BL	(0°-30°)	1929.4	5.4	B3/2500		
BM	(30°-60°)	2437.3	6.8	B2/2500		
BH	(60°-80°)	2492.4	7.0	B3/2500		G3/2500
BVH	(80°-90°)	118.1	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°	8293.4	8293.4	8293.4	8293.4	8293.4	8293.4	8293.4	8293.4	8293.4	8293.4	8293.4
2.5°	7722.2	7809.5	7841.2	7888.8	8011.8	8103.0	8158.5	8222.0	8297.3	8360.8	8400.5
5°	7182.8	7230.4	7305.8	7357.3	7512.0	7757.9	7924.5	8194.2	8186.3	8285.4	8436.1
7.5°	6659.3	6706.9	6742.6	6845.7	7067.8	7289.9	7595.3	8031.6	7999.9	8229.9	8463.9
10°	6334.1	6298.4	6310.3	6484.8	6659.3	6909.2	7293.9	7738.1	7853.1	8210.1	8543.2
12.5°	6028.7	5989.0	6084.2	6195.2	6409.4	6635.5	7095.6	7496.2	7670.7	8138.7	8578.9
15°	5838.3	5810.5	5929.5	5977.1	6230.9	6500.6	6825.9	7313.7	7504.1	8051.4	8523.4
17.5°	5731.2	5755.0	5798.6	5901.7	6064.3	6294.4	6651.3	7190.8	7274.0	7944.3	8511.5
20°	5751.0	5778.8	5782.7	5826.4	5937.4	6115.9	6480.8	7059.9	7115.4	7924.5	8543.2
22.5°	5909.7	5870.0	5885.9	5858.1	5889.8	6028.7	6349.9	6885.4	7099.5	7757.9	8475.8
25°	6147.6	6092.1	6084.2	5989.0	5929.5	5969.2	6326.1	6841.7	6980.5	7706.4	8471.8
27.5°	6568.1	6484.8	6484.8	6342.0	6100.0	6036.6	6258.7	6770.3	6893.3	7658.8	8380.6
30°	6972.6	6972.6	6976.6	6774.3	6504.6	6191.3	6286.5	6742.6	6821.9	7516.0	8257.7
32.5°	7464.4	7452.5	7432.7	7333.5	6917.1	6449.1	6421.3	6706.9	6746.5	7468.4	8222.0
35°	7944.3	7912.6	8067.3	7980.0	7555.6	6952.8	6560.1	6722.7	6810.0	7397.0	8110.9
37.5°	8305.3	8325.1	8646.4	8701.9	8337.0	7523.9	6952.8	6881.4	6964.7	7500.1	8110.9
40°	8773.3	8852.6	9154.0	9340.4	9118.3	8277.5	7575.5	7147.1	7206.6	7730.2	8285.4
42.5°	9388.0	9455.5	9840.2	10082.1	10018.7	9237.3	8190.2	7702.4	7654.8	8114.9	8547.2
45°	10201.1	10213.0	10601.7	10934.9	11065.7	10240.8	9165.9	8404.4	8364.8	8777.2	9027.1
47.5°	11168.9	11157.0	11398.9	11755.9	12108.9	11438.6	10288.4	9471.3	9328.5	9725.2	9824.3
50°	12104.9	12053.3	12108.9	12565.0	13243.2	12937.8	11652.7	10776.2	10633.4	10851.6	11022.1
52.5°	12620.5	12684.0	12533.2	13136.1	14448.9	14710.7	13461.3	12334.9	12212.0	12319.1	12616.5
55°	12259.6	12390.5	12291.3	12862.4	14976.4	16872.3	15801.4	14139.6	13980.9	13941.3	14429.1
57.5°	10724.7	10962.6	10982.5	11886.8	14794.0	18546.0	19093.4	16269.4	16031.5	15626.9	16130.6
60°	8233.9	8471.8	8654.3	9725.2	13231.3	19545.5	22908.9	19299.6	18514.3	17467.2	17768.7
62.5°	5770.8	5933.5	6115.9	6774.3	10201.1	18958.5	26208.8	23567.3	22119.6	19406.7	19783.5
65°	4204.2	4331.1	4517.5	4906.2	6266.6	15686.4	27739.7	28636.1	27263.8	21873.7	21826.1
67.5°	3165.0	3244.4	3490.3	4113.0	4343.0	9689.5	26153.2	33990.5	32879.9	24614.4	23468.1
70°	2395.6	2463.0	2693.1	3545.8	4057.4	5195.7	20632.3	35184.3	35501.6	27688.2	24570.7
72.5°	1649.9	1725.3	1983.1	2954.8	3863.1	4120.9	12949.7	31963.8	33165.5	28953.4	23388.8
75°	1011.4	1062.9	1213.7	2240.9	3835.3	4029.7	7127.3	26192.9	27466.1	26752.1	20461.7
77.5°	713.9	710.0	737.7	1312.8	3323.7	4053.5	4394.6	19192.5	20430.0	19716.1	13885.7
80°	519.6	523.5	551.3	785.3	2256.8	4120.9	3462.5	12854.5	13223.4	10280.4	5477.3
82.5°	313.3	329.2	396.6	531.5	1356.4	3720.3	3200.7	7143.2	6683.1	3299.9	1507.2
85°	166.6	166.6	234.0	337.1	721.9	2776.4	3081.8	3399.0	2847.7	1023.3	559.2
87.5°	39.7	39.7	67.4	134.9	289.5	1328.7	2102.1	1352.5	1082.8	345.1	230.0
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°	8293.4	8293.4	8293.4	8293.4	8293.4	8293.4	8293.4	8293.4	8293.4	8293.4	8293.4
2.5°	8384.6	8337.0	8396.5	8277.5	8182.3	8186.3	8039.5	8031.6	8011.8	7908.6	7944.3
5°	8479.8	8440.1	8372.7	8241.8	8031.6	7821.4	7694.5	7531.8	7464.4	7428.7	7444.6
7.5°	8571.0	8499.6	8305.3	8122.8	7797.6	7401.0	7170.9	6952.8	6675.1	6643.4	6587.9
10°	8594.8	8444.1	8194.2	7805.5	7373.2	6932.9	6409.4	6004.9	5790.7	5624.1	5560.6
12.5°	8559.1	8495.6	8015.7	7516.0	6861.6	6171.4	5560.6	4989.5	4592.9	4386.6	4331.1
15°	8555.1	8444.1	7817.4	7075.7	6238.9	5338.5	4469.9	3783.8	3367.3	3196.8	3196.8
17.5°	8559.1	8293.4	7583.4	6631.5	5505.1	4287.5	3331.6	2768.4	2538.4	2514.6	2534.4
20°	8479.8	8182.3	7337.5	6108.0	4584.9	3220.6	2419.4	2189.4	2189.4	2221.1	2233.0
22.5°	8408.4	8015.7	6948.8	5461.5	3648.9	2332.1	1967.2	1899.8	1975.2	2030.7	2054.5
25°	8309.2	7876.9	6552.2	4791.2	2776.4	1880.0	1709.4	1725.3	1796.7	1895.9	1887.9
27.5°	8166.4	7635.0	6080.2	4013.8	2066.4	1622.2	1578.6	1586.5	1661.8	1705.5	1697.5
30°	8003.8	7389.1	5643.9	3240.4	1638.0	1487.3	1483.4	1503.2	1515.1	1538.9	1534.9
32.5°	7797.6	7063.8	5179.9	2518.5	1475.4	1412.0	1396.1	1384.2	1396.1	1392.1	1380.2
35°	7650.8	6889.3	4707.9	1919.6	1384.2	1344.5	1332.6	1312.8	1297.0	1273.2	1269.2
37.5°	7611.2	6714.8	4212.1	1566.7	1312.8	1293.0	1253.3	1217.6	1197.8	1185.9	1178.0
40°	7587.4	6599.8	3728.2	1376.3	1253.3	1233.5	1185.9	1138.3	1118.5	1106.6	1110.5
42.5°	7670.7	6536.3	3236.4	1281.1	1201.8	1166.1	1114.5	1059.0	1055.0	1047.1	1059.0
45°	7964.2	6615.7	2780.3	1213.7	1150.2	1090.7	1023.3	995.5	991.6	983.6	991.6
47.5°	8630.5	6814.0	2391.6	1170.0	1094.7	1043.1	971.7	932.1	928.1	924.1	924.1
50°	9550.7	7424.8	2066.4	1118.5	1059.0	987.6	920.2	876.5	868.6	852.7	852.7
52.5°	10994.4	8452.0	1872.1	1090.7	995.5	936.0	864.6	817.0	797.2	781.3	781.3
55°	12620.5	9725.2	1836.4	1043.1	928.1	872.6	809.1	761.5	741.7	721.9	713.9
57.5°	14472.7	11410.8	2090.2	1011.4	880.5	809.1	737.7	694.1	678.2	658.4	650.5
60°	16198.0	13092.5	2879.5	963.8	836.9	749.6	678.2	634.6	614.8	594.9	594.9
62.5°	18193.0	15174.8	4216.1	963.8	797.2	686.2	614.8	583.0	571.1	551.3	547.3
65°	20552.9	17328.4	5191.8	1023.3	785.3	630.6	555.3	523.5	511.6	499.7	495.8
67.5°	22349.6	18565.9	4466.0	1181.9	836.9	583.0	495.8	475.9	468.0	456.1	448.2
70°	22540.0	17812.3	2693.1	1277.1	888.4	535.4	444.2	424.4	424.4	412.5	404.6
72.5°	20830.6	15805.4	1812.6	1138.3	805.1	479.9	392.7	376.8	368.9	360.9	357.0
75°	17431.5	13405.8	1431.8	908.3	618.7	396.6	341.1	325.2	313.3	309.4	301.4
77.5°	11708.3	8713.8	1059.0	710.0	456.1	321.3	285.6	269.7	257.8	253.8	241.9
80°	4497.7	3319.7	682.2	515.6	321.3	253.8	226.1	210.2	202.3	190.4	182.4
82.5°	1324.7	1074.8	380.8	317.3	206.2	174.5	162.6	150.7	138.8	126.9	123.0
85°	547.3	491.8	234.0	166.6	126.9	103.1	95.2	83.3	71.4	63.5	55.5
87.5°	253.8	210.2	107.1	63.5	43.6	23.8	11.9	4.0	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)