

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: P480368

Luminaire Tested: **IFLD-L-SA7D-722-U-SL3**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480368  
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-SL3  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens  
Light Source: (112) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

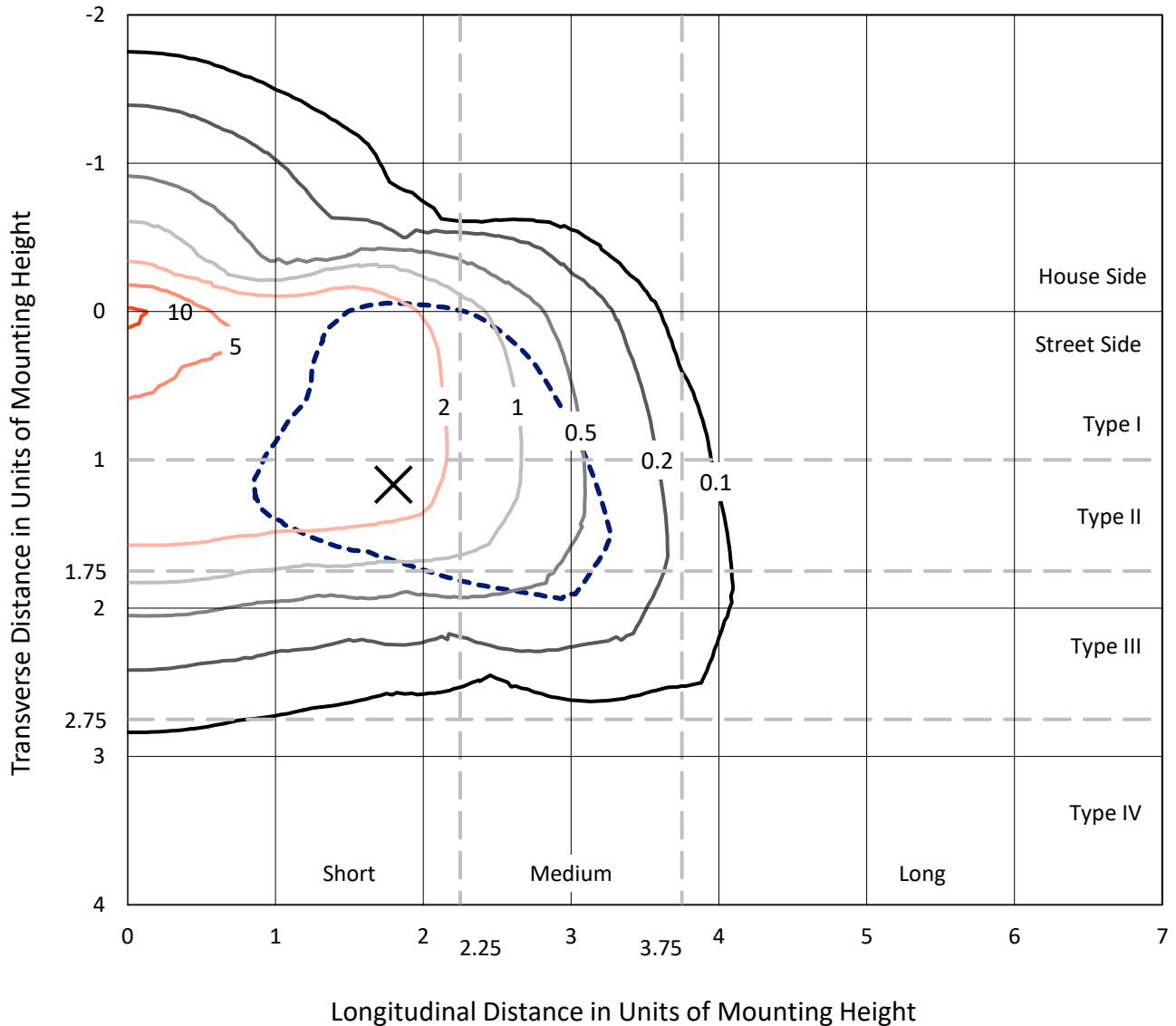
Lumens per Lamp: N/A  
Luminaire Lumens: 35453.7 lumens  
Efficiency: N/A  
Efficacy: 83.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

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

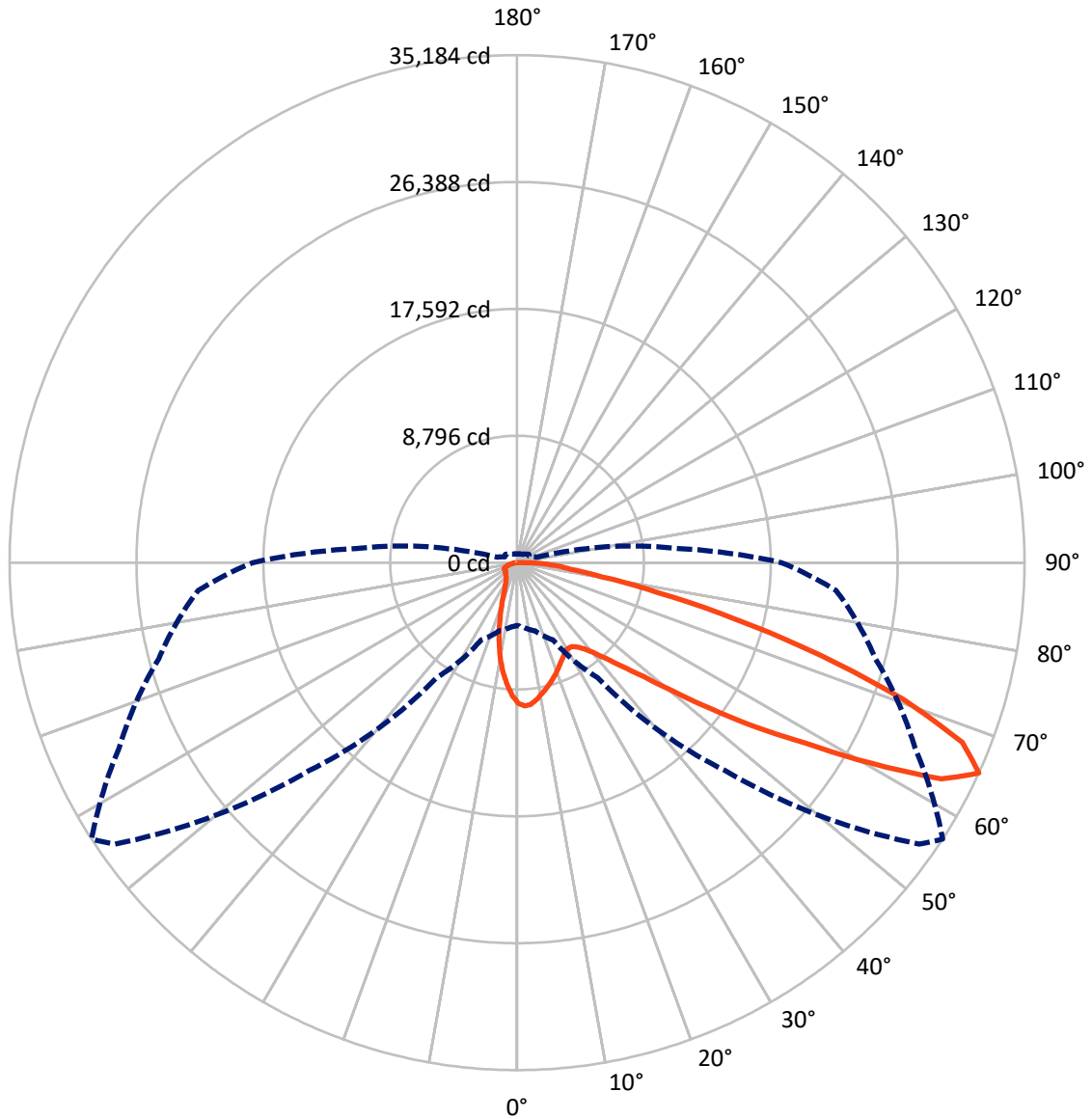
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.8 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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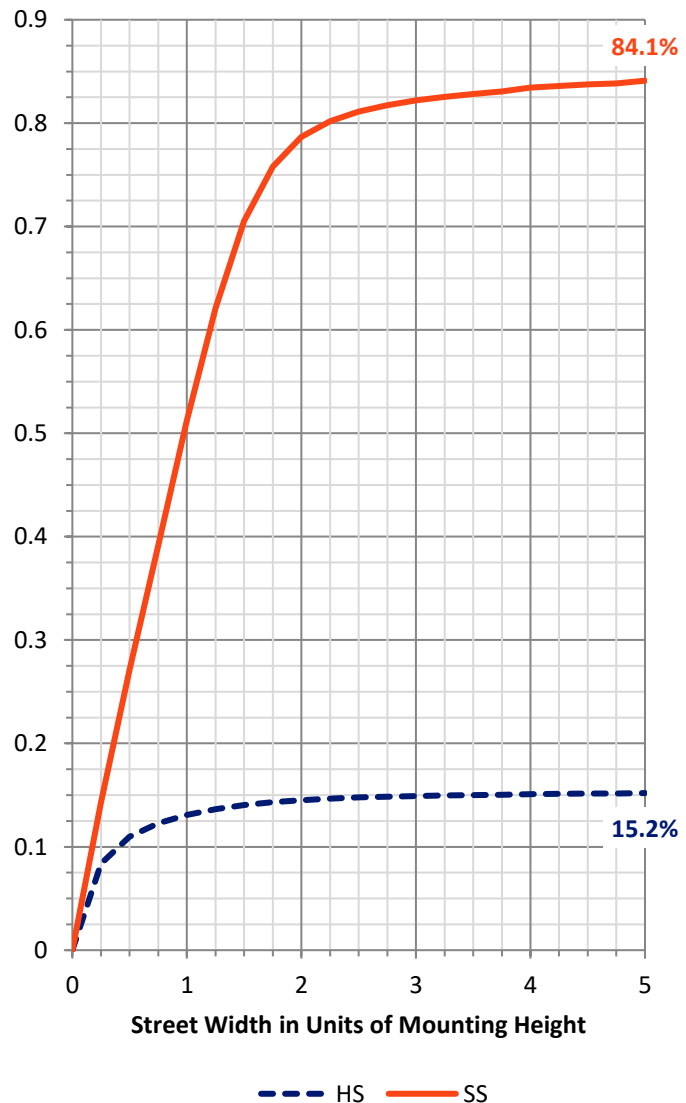
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5437.2	0.0	5437.2
	% Fixture	15.3	0.0	15.3
<b>Street Side</b>	Lumens	30016.6	0.0	30016.6
	% Fixture	84.7	0.0	84.7
<b>Total</b>	Lumens	35453.7	0.0	35453.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	816.4	2.3
10°-20°	1757.1	5.0
20°-30°	2271.7	6.4
30°-40°	3057.0	8.6
40°-50°	4874.6	13.7
50°-60°	8609.7	24.3
60°-70°	9471.8	26.7
70°-80°	3962.2	11.2
80°-90°	633.2	1.8
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°	35453.7	100.0
0°-180°	35453.7	100.0

**Coefficient of Utilization**



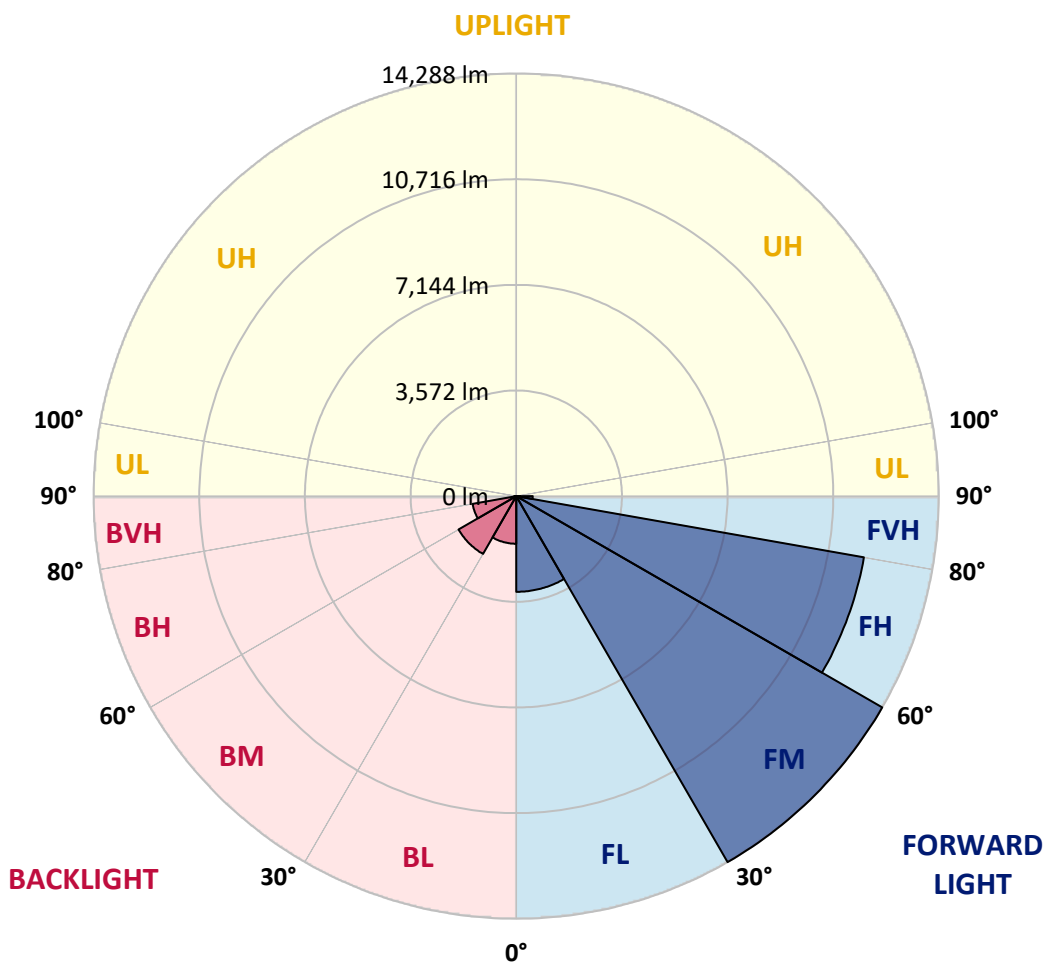
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3235.0	9.1			
FM (30°-60°)	14287.8	40.3			
FH (60°-80°)	11934.8	33.7			G4/12000
FVH (80°-90°)	559.0	1.6			G4/750
BL (0°-30°)	1610.2	4.5	B3/2500		
BM (30°-60°)	2253.5	6.4	B2/2500		
BH (60°-80°)	1499.2	4.2	B3/2500		G3/2500
BVH (80°-90°)	74.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	9749.3	9749.3	9749.3	9749.3	9749.3	9749.3	9749.3	9749.3	9749.3	9749.3	9749.3
2.5°	10012.5	10028.5	10028.5	10060.4	9952.7	10004.6	9996.6	9948.7	9964.7	9880.9	9797.1
5°	9729.3	9717.4	9781.2	9789.2	9872.9	9896.9	9916.8	9884.9	9892.9	9709.4	9629.6
7.5°	9003.3	8999.3	9107.0	9198.8	9374.3	9537.8	9645.6	9613.6	9657.5	9541.8	9354.4
10°	8141.7	8233.4	8345.1	8436.9	8760.0	8967.4	9246.6	9274.6	9442.1	9414.2	9075.1
12.5°	7495.4	7535.3	7619.1	7882.4	8177.6	8520.6	8919.5	8955.4	9119.0	9198.8	8903.6
15°	6964.9	7000.8	7108.5	7304.0	7635.1	8042.0	8548.6	8640.3	8967.4	8995.3	8680.2
17.5°	6578.0	6605.9	6677.7	6873.2	7144.4	7667.0	8145.7	8309.2	8740.0	8875.7	8448.8
20°	6426.4	6366.5	6406.4	6530.1	6801.4	7204.2	7822.6	7966.2	8516.6	8783.9	8229.4
22.5°	6358.6	6306.7	6330.6	6322.7	6538.1	6825.3	7475.5	7627.1	8305.2	8676.2	8034.0
25°	6410.4	6410.4	6386.5	6366.5	6390.5	6578.0	7100.5	7335.9	8022.0	8584.5	7834.5
27.5°	6689.7	6582.0	6593.9	6510.2	6486.2	6486.2	6933.0	7072.6	7930.3	8532.6	7671.0
30°	6869.2	6921.0	6925.0	6801.4	6677.7	6454.3	6777.4	6913.0	7854.5	8596.4	7575.2
32.5°	7327.9	7304.0	7236.2	7212.2	7028.7	6777.4	6853.2	6945.0	7810.6	8740.0	7603.2
35°	7786.7	7774.7	7778.7	7766.7	7575.2	7204.2	7056.7	7180.3	7890.4	8991.3	7698.9
37.5°	8261.3	8293.3	8428.9	8428.9	8225.4	7822.6	7627.1	7591.2	8181.6	9402.2	7926.3
40°	8736.0	8815.8	8987.4	9258.6	8971.4	8596.4	8281.3	8225.4	8532.6	9952.7	8472.8
42.5°	9190.8	9322.4	9661.5	10064.4	9968.7	9593.7	9174.8	9111.0	9254.6	10770.5	9234.7
45°	9773.2	9884.9	10419.4	11037.7	11169.4	10838.3	10347.6	10295.8	10287.8	11967.2	10283.8
47.5°	10658.8	10778.4	11313.0	11935.3	12342.2	12394.0	11843.5	11787.7	11596.2	13582.8	11819.6
50°	11767.7	11963.2	12414.0	13140.0	13730.4	14284.8	14129.3	13965.7	13590.7	15461.6	13766.3
52.5°	12577.5	12816.9	13427.2	14356.6	15397.8	16279.4	16837.8	16837.8	15976.2	17524.0	16107.8
55°	12792.9	12936.5	13706.4	15050.7	16833.8	19063.7	20232.5	20144.8	18816.4	19694.0	18832.4
57.5°	11935.3	12122.8	13056.2	14464.3	17587.8	21668.6	23603.3	23623.2	21919.9	22215.1	21521.0
60°	9573.8	9633.6	10734.6	12617.4	16861.8	23766.8	28206.7	28282.5	25450.2	24460.9	22889.2
62.5°	6617.9	6809.3	7639.1	9290.5	13969.7	23531.5	32646.5	33021.5	28278.5	25645.7	23104.7
65°	4356.1	4471.7	4914.5	5919.8	9725.3	20396.1	34026.7	35183.5	30440.5	25713.5	22203.1
67.5°	3159.3	3179.3	3310.9	3829.5	5844.0	14667.8	31669.2	33300.7	31250.3	25147.1	20088.9
70°	2553.0	2569.0	2616.8	2947.9	3773.7	9178.8	25829.2	28386.2	28821.0	22462.4	16179.6
72.5°	2074.3	2094.3	2154.1	2465.2	3111.5	5106.0	18888.2	22003.7	23443.7	16618.4	10754.5
75°	1631.5	1647.5	1791.1	2098.2	2924.0	3506.4	12529.6	15581.3	15776.7	9713.4	5034.2
77.5°	1116.9	1144.9	1320.4	1779.1	2752.5	3067.6	7810.6	9980.6	8955.4	3801.6	1731.3
80°	710.1	749.9	853.7	1348.3	2433.3	2928.0	4858.7	5959.7	3921.2	1300.4	833.7
82.5°	418.9	458.7	562.5	873.6	1910.8	2716.6	3422.6	3729.8	1839.0	666.2	502.6
85°	231.4	259.3	339.1	526.6	1120.9	2413.4	2740.5	2676.7	1053.1	355.0	315.1
87.5°	75.8	87.8	123.7	211.4	462.7	1136.9	1643.5	1543.8	546.5	163.6	123.7
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°	9749.3	9749.3	9749.3	9749.3	9749.3	9749.3	9749.3	9749.3	9749.3	9749.3	9749.3
2.5°	9741.3	9729.3	9549.8	9414.2	9182.8	8991.3	8915.6	8811.8	8807.9	8732.1	8712.1
5°	9505.9	9382.3	9107.0	8843.8	8432.9	8157.6	7906.3	7730.8	7659.0	7503.4	7467.5
7.5°	9202.8	9039.2	8616.4	8121.7	7639.1	7208.2	6817.3	6426.4	6207.0	6131.2	6047.4
10°	8887.6	8600.4	7974.1	7419.7	6745.5	6083.3	5469.0	4918.5	4619.3	4407.9	4316.2
12.5°	8636.3	8253.4	7455.6	6625.8	5736.3	4850.7	4136.7	3558.2	3219.2	3059.6	2987.8
15°	8353.1	7846.5	6889.1	5840.0	4731.0	3725.8	3027.7	2572.9	2437.3	2361.5	2349.6
17.5°	8053.9	7467.5	6274.8	5066.1	3749.7	2804.3	2353.5	2170.1	2110.2	2078.3	2062.3
20°	7774.7	7128.5	5644.5	4204.5	2936.0	2249.8	2038.4	1942.7	1938.7	1954.6	1950.7
22.5°	7379.8	6685.7	5022.2	3406.7	2345.6	1958.6	1823.0	1799.1	1823.0	1842.9	1850.9
25°	7156.4	6322.7	4328.1	2704.6	1938.7	1739.2	1695.4	1687.4	1723.3	1747.2	1743.2
27.5°	6925.0	5947.7	3681.9	2166.1	1699.3	1583.7	1575.7	1583.7	1619.6	1655.5	1651.5
30°	6745.5	5648.5	3075.6	1811.0	1515.8	1472.0	1464.0	1472.0	1491.9	1495.9	1495.9
32.5°	6597.9	5293.5	2561.0	1571.7	1404.2	1368.2	1376.2	1372.2	1376.2	1380.2	1384.2
35°	6510.2	5082.1	2138.1	1424.1	1312.4	1284.5	1280.5	1268.5	1272.5	1276.5	1272.5
37.5°	6697.6	4978.4	1803.1	1320.4	1248.6	1224.6	1216.7	1208.7	1196.7	1196.7	1196.7
40°	6980.9	4922.5	1599.6	1252.6	1200.7	1172.8	1148.9	1140.9	1140.9	1144.9	1148.9
42.5°	7543.3	5014.3	1460.0	1200.7	1140.9	1109.0	1085.0	1089.0	1101.0	1112.9	1105.0
45°	8357.1	5293.5	1396.2	1160.8	1105.0	1061.1	1045.1	1041.1	1053.1	1073.1	1089.0
47.5°	9422.2	5728.3	1372.2	1124.9	1081.0	1021.2	1001.3	1013.2	1029.2	1057.1	1045.1
50°	11165.4	6705.6	1392.2	1093.0	1045.1	1001.3	977.3	965.4	977.3	997.3	1005.2
52.5°	13443.1	8480.7	1468.0	1077.0	1021.2	985.3	945.4	925.5	937.4	953.4	953.4
55°	16167.7	10906.1	1679.4	1057.1	981.3	961.4	917.5	877.6	885.6	885.6	881.6
57.5°	18569.1	12737.1	1930.7	1029.2	957.4	929.5	873.6	825.7	817.8	821.7	825.7
60°	19646.1	13223.7	2050.4	1021.2	957.4	889.6	813.8	765.9	753.9	746.0	746.0
62.5°	19458.6	12382.1	1807.0	985.3	981.3	857.6	757.9	706.1	690.1	674.2	678.1
65°	18325.8	11181.3	1424.1	937.4	985.3	837.7	702.1	650.2	622.3	602.3	598.4
67.5°	16255.4	9545.8	1128.9	901.5	945.4	801.8	654.2	594.4	570.4	550.5	542.5
70°	12717.1	7483.5	981.3	853.7	849.7	714.0	598.4	546.5	510.6	486.7	486.7
72.5°	8245.4	4731.0	841.7	757.9	734.0	598.4	518.6	486.7	458.7	438.8	438.8
75°	3733.8	2198.0	678.1	634.3	598.4	478.7	438.8	422.8	398.9	379.0	379.0
77.5°	1340.3	937.4	506.6	498.6	446.8	371.0	355.0	343.1	327.1	307.2	307.2
80°	749.9	594.4	379.0	363.0	311.1	275.2	255.3	255.3	247.3	235.4	231.4
82.5°	474.7	386.9	279.2	243.3	203.4	183.5	175.5	171.5	167.5	151.6	147.6
85°	299.2	263.3	183.5	143.6	119.7	91.7	87.8	83.8	75.8	67.8	67.8
87.5°	135.6	151.6	71.8	43.9	31.9	19.9	12.0	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)