

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: P477066

Luminaire Tested: **IFLD-S-SA3C-760-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477066
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-760-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (48) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

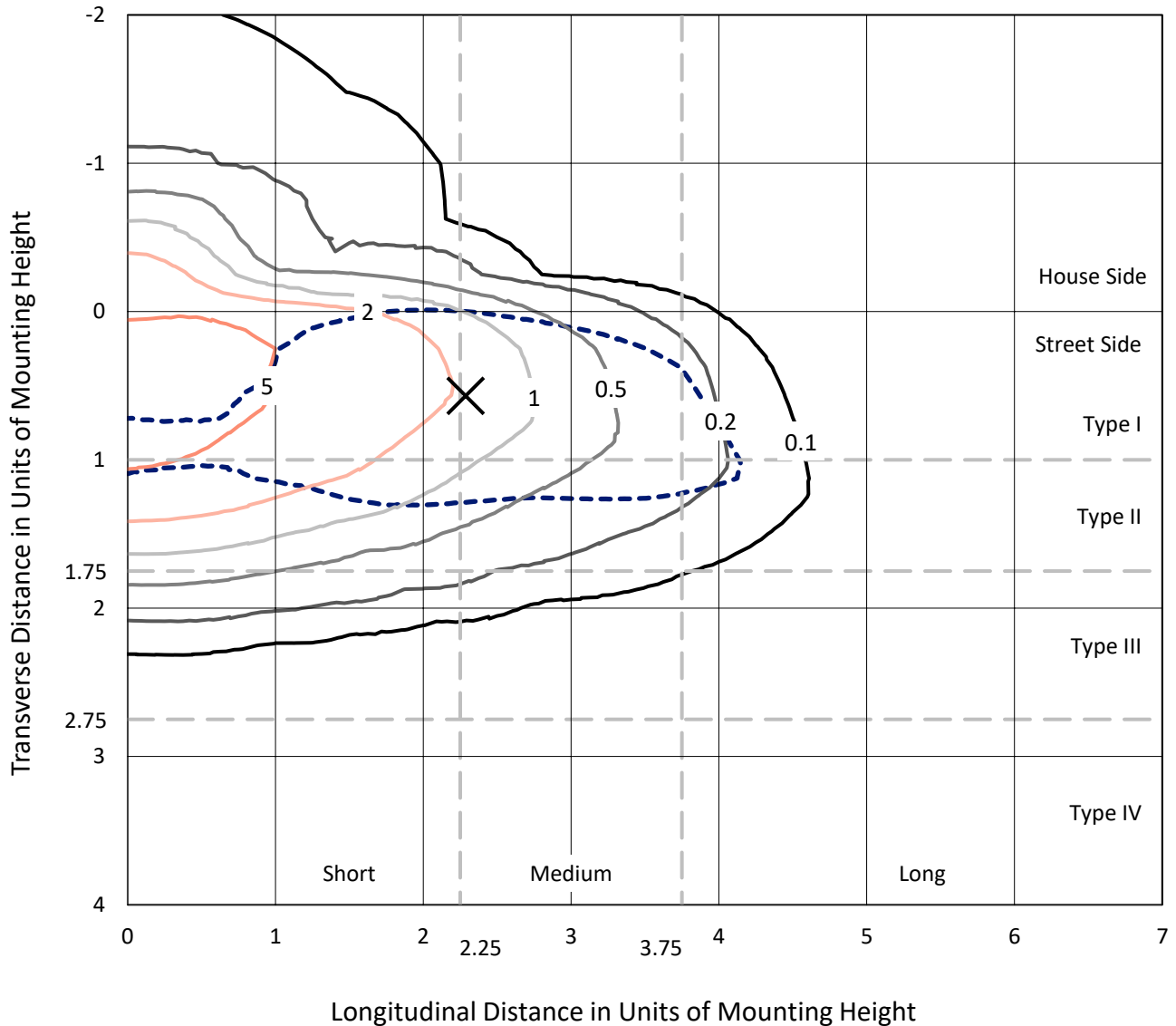
Lumens per Lamp: N/A
Luminaire Lumens: 21788.8 lumens
Efficiency: N/A
Efficacy: 135.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 160.8
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

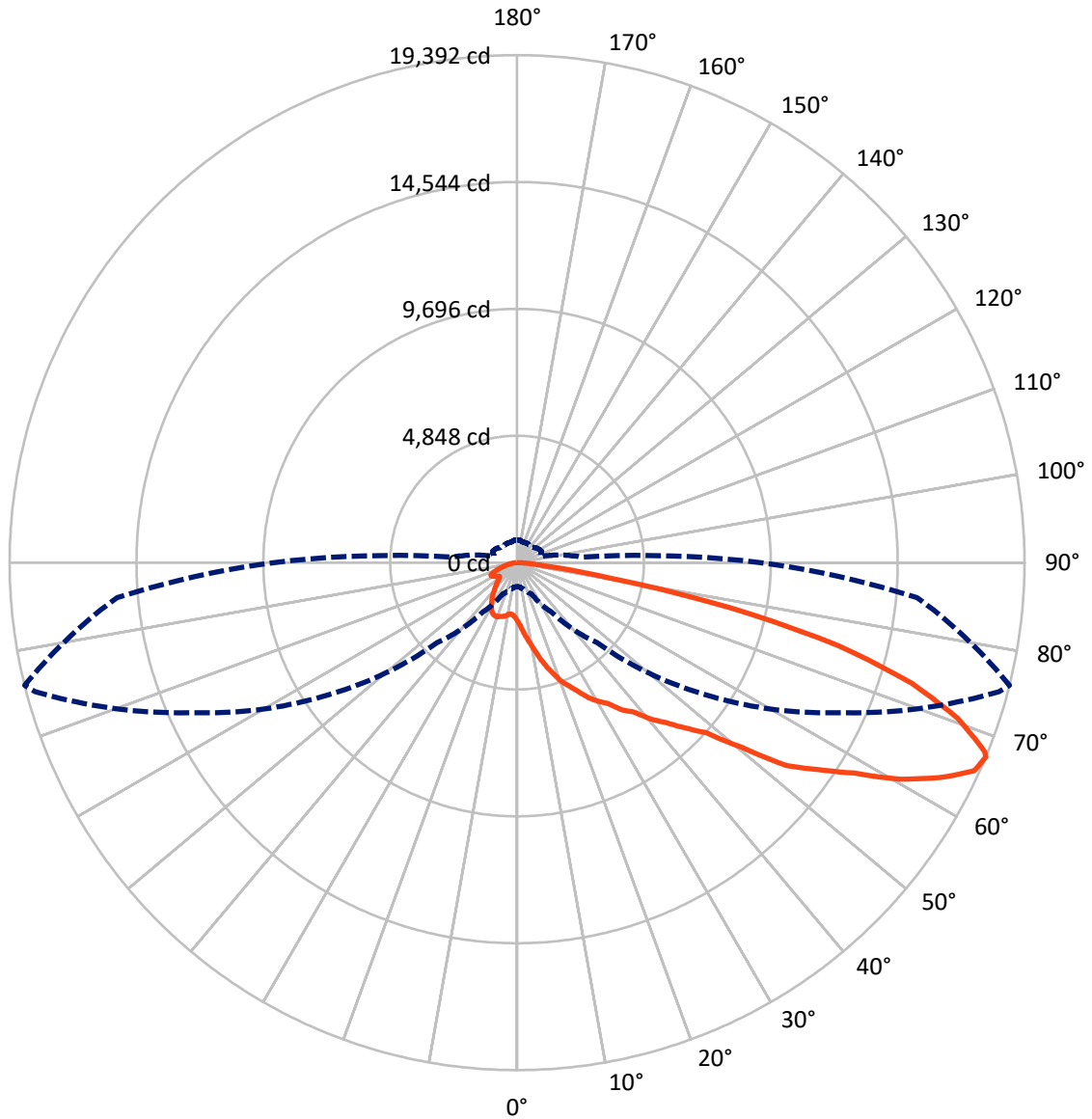
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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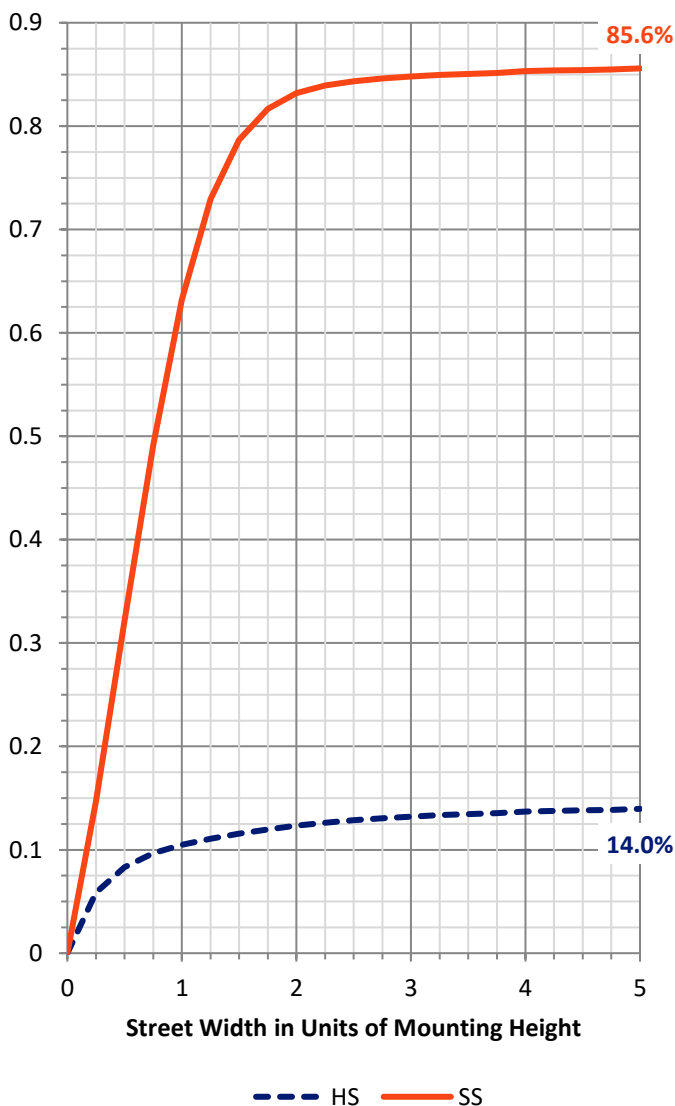
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3099.7	0.0	3099.7
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	18689.1	0.0	18689.1
	% Fixture	85.8	0.0	85.8
Total	Lumens	21788.8	0.0	21788.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.3	1.2
10°-20°	968.7	4.4
20°-30°	1801.0	8.3
30°-40°	2854.9	13.1
40°-50°	3948.6	18.1
50°-60°	4857.0	22.3
60°-70°	4519.7	20.7
70°-80°	2268.0	10.4
80°-90°	312.7	1.4
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°	21788.8	100.0
0°-180°	21788.8	100.0

Coefficient of Utilization



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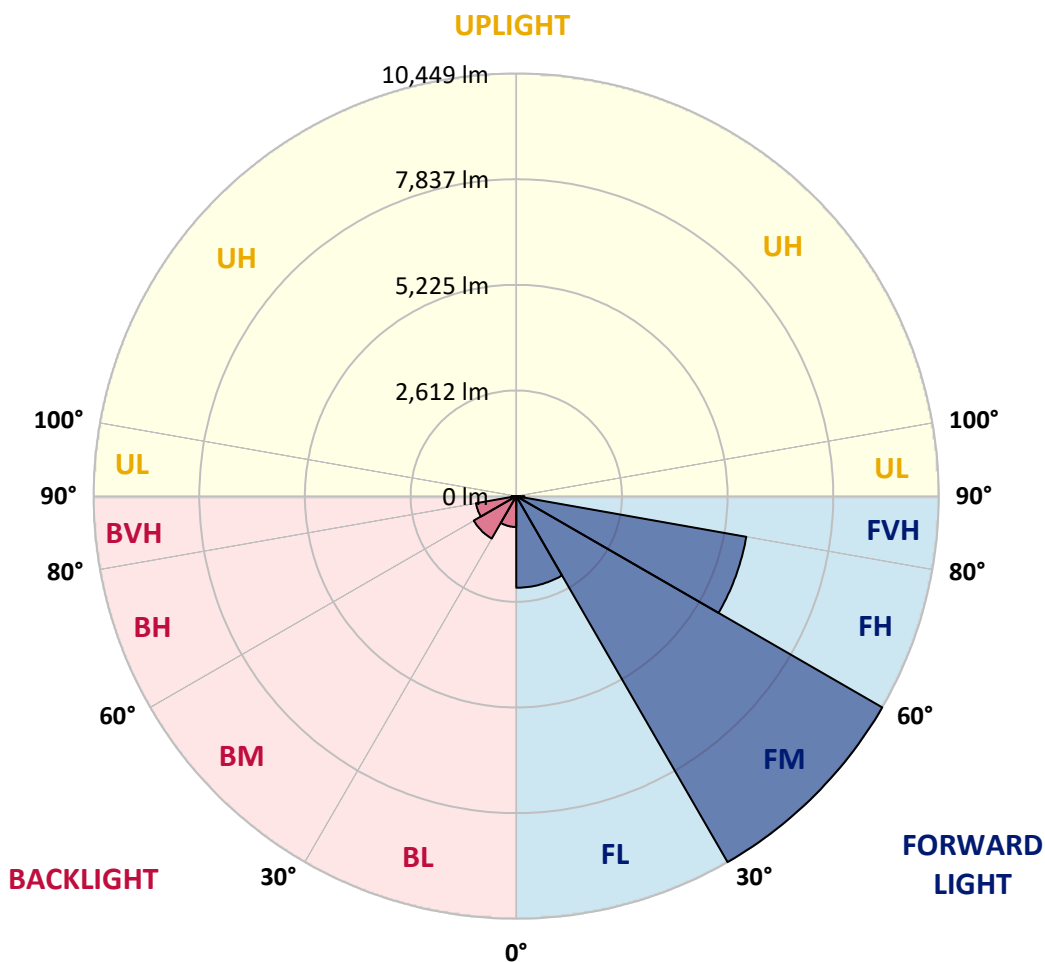
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2264.6	10.4			
FM (30°-60°)	10449.2	48.0			
FH (60°-80°)	5776.0	26.5			G3/7500
FVH (80°-90°)	199.2	0.9			G2/225
BL (0°-30°)	763.3	3.5	B2/1000		
BM (30°-60°)	1211.3	5.6	B2/2500		
BH (60°-80°)	1011.6	4.6	B3/2500		G3/2500
BVH (80°-90°)	113.5	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2229.8	2229.8	2229.8	2229.8	2229.8	2229.8	2229.8	2229.8	2229.8	2229.8	2229.8
2.5°	3093.8	3056.6	3019.4	2939.9	2912.6	2838.1	2701.5	2550.1	2425.9	2408.5	2321.6
5°	3838.7	3784.1	3771.7	3727.0	3585.5	3441.5	3218.0	2974.7	2671.7	2694.1	2396.1
7.5°	4397.4	4365.2	4298.1	4255.9	4171.5	3980.3	3749.4	3426.6	3041.7	2967.2	2562.5
10°	4819.5	4774.8	4772.4	4735.1	4690.4	4494.3	4318.0	3883.4	3389.3	3287.5	2766.1
12.5°	5033.1	5025.6	5157.2	5157.2	5139.9	5057.9	4755.0	4357.7	3719.6	3684.8	3002.0
15°	5264.0	5201.9	5316.1	5403.1	5447.7	5490.0	5239.2	4819.5	4141.7	4074.6	3255.2
17.5°	5264.0	5259.0	5373.3	5517.3	5750.7	5805.3	5668.7	5244.1	4491.8	4442.1	3533.3
20°	5174.6	5246.6	5326.1	5519.8	5773.0	5994.0	6033.7	5678.7	4879.1	4839.4	3848.7
22.5°	5591.8	5522.2	5604.2	5678.7	5874.8	6210.0	6319.3	6061.1	5286.4	5134.9	4134.2
25°	6292.0	6244.8	6185.2	6076.0	6157.9	6304.4	6470.8	6344.1	5634.0	5465.1	4409.8
27.5°	6974.8	6977.3	6848.2	6609.8	6433.5	6463.3	6659.5	6592.4	5927.0	5852.5	4598.6
30°	7945.7	7886.1	7742.1	7419.3	7074.1	6791.1	6758.8	6823.3	6299.4	6155.4	4869.2
32.5°	8673.2	8685.6	8482.0	8017.7	7545.9	7315.0	7031.9	7059.2	6535.3	6428.5	5085.2
35°	9261.7	9246.8	9102.8	8717.9	8159.2	7881.1	7498.7	7342.3	7084.1	6915.2	5415.5
37.5°	9897.3	9775.7	9542.2	9107.7	8750.2	8365.3	7992.8	7640.3	7449.1	7245.5	5698.5
40°	10153.1	10153.1	9840.2	9641.6	9217.0	8926.5	8685.6	8032.6	7893.5	7853.8	6061.1
42.5°	9971.8	10083.5	9954.4	9728.5	9554.7	9187.2	9122.6	8439.8	8442.3	8362.8	6495.6
45°	9954.4	9800.5	9693.7	9750.8	9668.9	9649.0	9812.9	9003.4	9018.3	9008.4	7079.1
47.5°	9455.3	9385.8	9544.7	9639.1	9706.1	10014.0	10485.8	9676.3	9783.1	9708.6	7752.0
50°	8958.7	8946.3	9045.6	9388.3	9678.8	10185.4	11126.4	10714.2	11064.3	11059.4	8971.2
52.5°	7598.0	7729.6	8119.5	8844.5	9562.1	10418.8	11610.6	12040.2	12708.1	12889.4	9981.7
55°	6296.9	6227.4	6803.5	7856.3	9053.1	10510.6	12151.9	12837.2	13820.5	13952.1	11019.6
57.5°	4899.0	5028.1	5482.5	6493.1	8000.3	10056.2	12549.2	13624.3	15076.9	15178.7	12223.9
60°	3655.0	3672.4	4171.5	4985.9	6599.9	9030.7	12678.3	14431.3	16517.1	16807.6	13485.3
62.5°	2299.3	2403.6	2783.5	3585.5	4968.5	7595.6	12099.8	14920.5	18026.7	18103.7	14756.6
65°	1239.0	1306.1	1591.6	2095.7	3471.3	5745.7	10565.3	14627.5	18736.9	19193.7	15322.7
67°	916.2	928.6	1060.2	1338.3	2321.6	4325.4	8809.8	13567.2	19059.7	19392.4	15345.1
67.5°	859.1	876.5	980.8	1201.8	2058.4	3982.8	8350.4	13189.8	18915.7	19273.2	15171.3
70°	735.0	739.9	764.8	826.8	1154.6	2396.1	5686.1	10808.6	17532.6	17875.3	13952.1
72.5°	653.0	658.0	667.9	680.3	782.2	1385.5	3458.8	8318.1	15238.3	15784.6	12037.7
75°	573.6	591.0	595.9	586.0	665.4	901.3	1839.9	6113.2	12430.0	12695.7	9361.0
77.5°	486.7	494.1	504.1	514.0	593.4	672.9	884.0	4126.8	8531.7	8370.3	5062.9
80°	409.7	412.2	419.6	427.1	514.0	514.0	501.6	2229.8	3727.0	3563.1	1710.8
82.5°	293.0	310.4	327.8	347.6	427.1	345.1	327.8	993.2	1179.4	1122.3	578.5
85°	114.2	139.0	216.0	238.4	270.6	186.2	218.5	429.6	491.6	486.7	216.0
87.5°	19.9	22.3	59.6	91.9	99.3	64.6	104.3	153.9	183.7	198.6	79.5
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°	2229.8	2229.8	2229.8	2229.8	2229.8	2229.8	2229.8	2229.8	2229.8	2229.8	2229.8
2.5°	2249.6	2172.6	2080.8	1988.9	1929.3	1835.0	1827.5	1770.4	1762.9	1743.1	1753.0
5°	2267.0	2175.1	1988.9	1842.4	1775.4	1720.7	1733.1	1708.3	1700.9	1688.5	1668.6
7.5°	2403.6	2222.3	1944.2	1817.6	1767.9	1743.1	1743.1	1713.3	1690.9	1705.8	1720.7
10°	2493.0	2244.7	1979.0	1852.3	1812.6	1758.0	1777.8	1740.6	1753.0	1723.2	1723.2
12.5°	2637.0	2371.3	2051.0	1904.5	1839.9	1790.3	1810.1	1767.9	1758.0	1760.5	1753.0
15°	2830.6	2455.7	2083.3	1934.3	1889.6	1827.5	1812.6	1775.4	1738.1	1725.7	1740.6
17.5°	3011.9	2560.0	2105.6	1951.7	1879.6	1810.1	1792.7	1745.6	1733.1	1695.9	1666.1
20°	3227.9	2684.1	2135.4	1966.6	1842.4	1772.9	1728.2	1681.0	1638.8	1616.4	1626.4
22.5°	3371.9	2748.7	2150.3	1936.8	1787.8	1723.2	1628.9	1596.6	1537.0	1512.2	1492.3
25°	3607.8	2828.2	2113.1	1854.8	1690.9	1586.7	1502.2	1457.5	1415.3	1383.0	1373.1
27.5°	3667.4	2887.8	2026.1	1715.8	1537.0	1427.7	1355.7	1301.1	1273.8	1224.1	1214.2
30°	3841.2	2828.2	1897.0	1546.9	1390.5	1278.8	1206.7	1167.0	1102.5	1090.0	1062.7
32.5°	3953.0	2845.5	1733.1	1383.0	1221.6	1122.3	1075.1	1035.4	1018.0	958.4	943.5
35°	4139.2	2785.9	1566.8	1231.6	1082.6	1005.6	965.9	953.5	896.4	869.1	844.2
37.5°	4258.4	2751.2	1400.4	1060.2	931.1	898.9	911.3	859.1	789.6	737.5	720.1
40°	4467.0	2738.8	1211.7	918.7	826.8	819.4	859.1	759.8	633.2	588.5	563.6
42.5°	4767.4	2654.3	1065.2	792.1	744.9	777.2	784.6	633.2	561.2	523.9	506.5
45°	5055.4	2671.7	921.2	655.5	648.1	695.2	677.9	536.3	494.1	466.8	481.7
47.5°	5609.1	2758.6	779.7	546.3	583.5	628.2	526.4	479.2	439.5	419.6	422.1
50°	6465.8	2843.1	655.5	499.1	551.2	568.6	451.9	434.5	432.0	392.3	389.8
52.5°	6979.8	2810.8	633.2	558.7	591.0	568.6	491.6	479.2	459.4	442.0	422.1
55°	7796.7	2905.1	680.3	653.0	670.4	546.3	551.2	546.3	531.4	486.7	499.1
57.5°	8447.2	2967.2	742.4	730.0	720.1	568.6	576.1	578.5	568.6	548.7	566.1
60°	9341.1	3091.4	807.0	809.5	811.9	618.3	630.7	645.6	643.1	635.7	640.6
62.5°	9889.9	3034.3	879.0	918.7	906.3	720.1	717.6	727.5	727.5	739.9	747.4
65°	9807.9	2823.2	916.2	1015.6	951.0	794.6	794.6	799.5	802.0	826.8	829.3
67°	9316.3	2445.8	896.4	1030.5	951.0	824.4	824.4	829.3	811.9	876.5	856.6
67.5°	9087.9	2334.0	879.0	1018.0	943.5	821.9	821.9	824.4	809.5	871.5	851.7
70°	7903.5	1733.1	757.3	901.3	874.0	799.5	799.5	784.6	772.2	854.2	836.8
72.5°	6746.4	1258.9	608.3	767.3	789.6	769.7	774.7	737.5	702.7	759.8	744.9
75°	5167.2	926.2	474.3	591.0	667.9	720.1	752.4	658.0	613.3	628.2	600.9
77.5°	2882.8	603.4	374.9	437.0	509.0	670.4	722.6	593.4	501.6	484.2	484.2
80°	978.3	352.6	275.6	325.3	350.1	593.4	675.4	481.7	394.8	377.4	365.0
82.5°	370.0	216.0	188.7	223.5	223.5	469.3	551.2	370.0	298.0	384.9	392.3
85°	168.8	129.1	124.2	129.1	129.1	288.0	389.8	240.9	268.2	230.9	203.6
87.5°	67.0	62.1	57.1	54.6	44.7	49.7	134.1	64.6	121.7	32.3	29.8
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)