

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: P477028

Luminaire Tested: **IFLD-S-SA3D-750-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477028
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-750-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (48) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

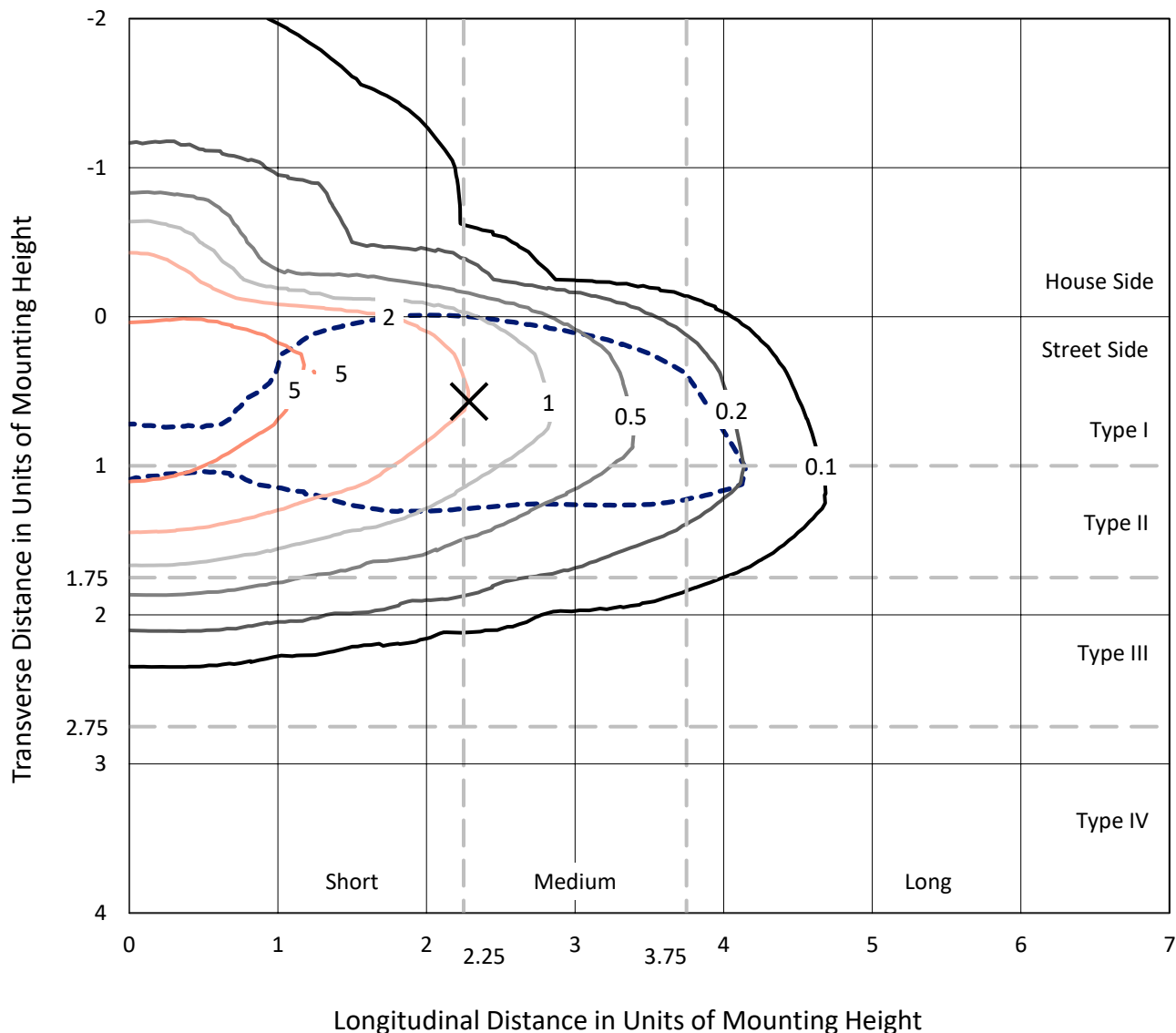
Lumens per Lamp: N/A
Luminaire Lumens: 23974.7 lumens
Efficiency: N/A
Efficacy: 130.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 184.1
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

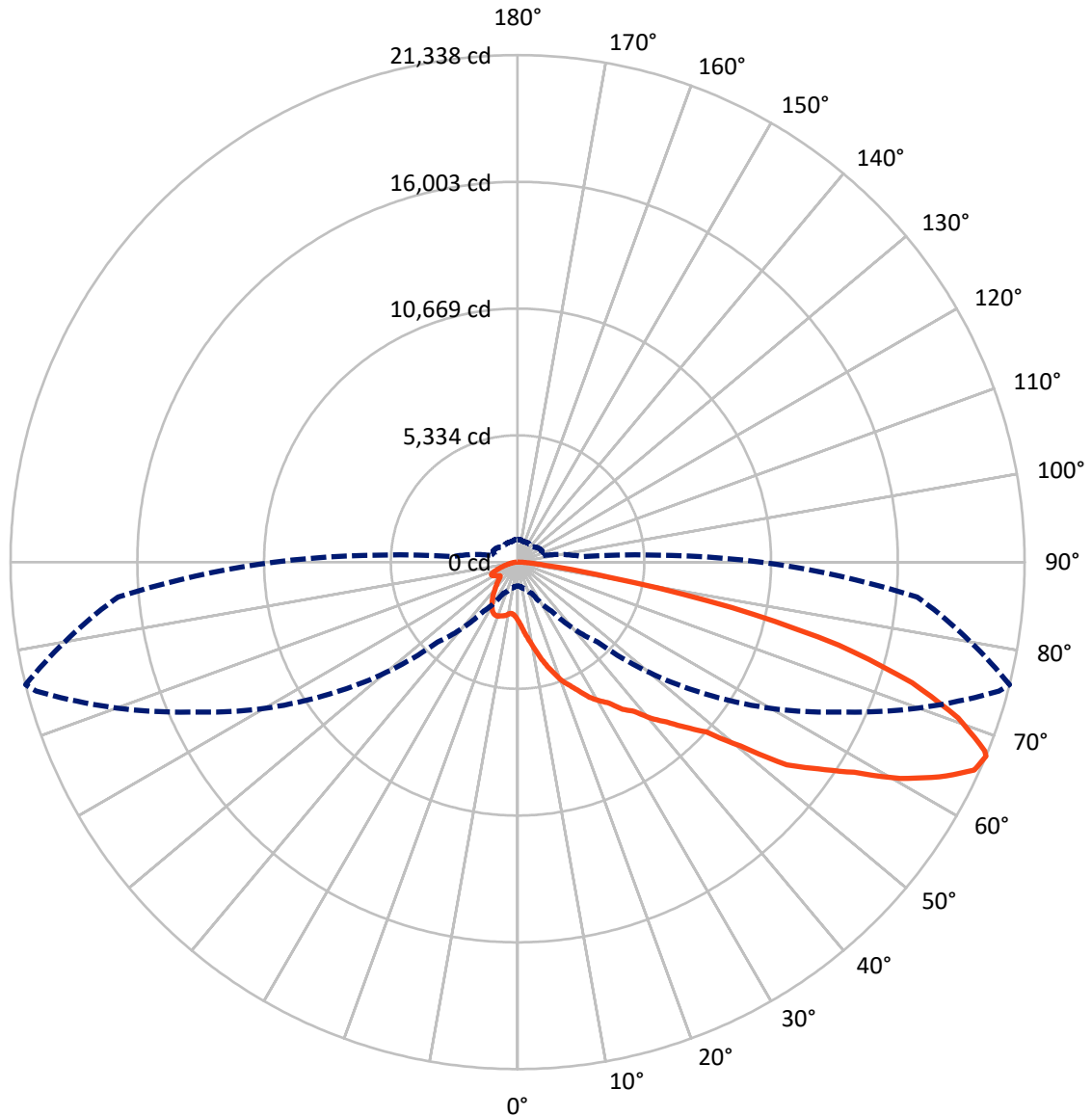
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 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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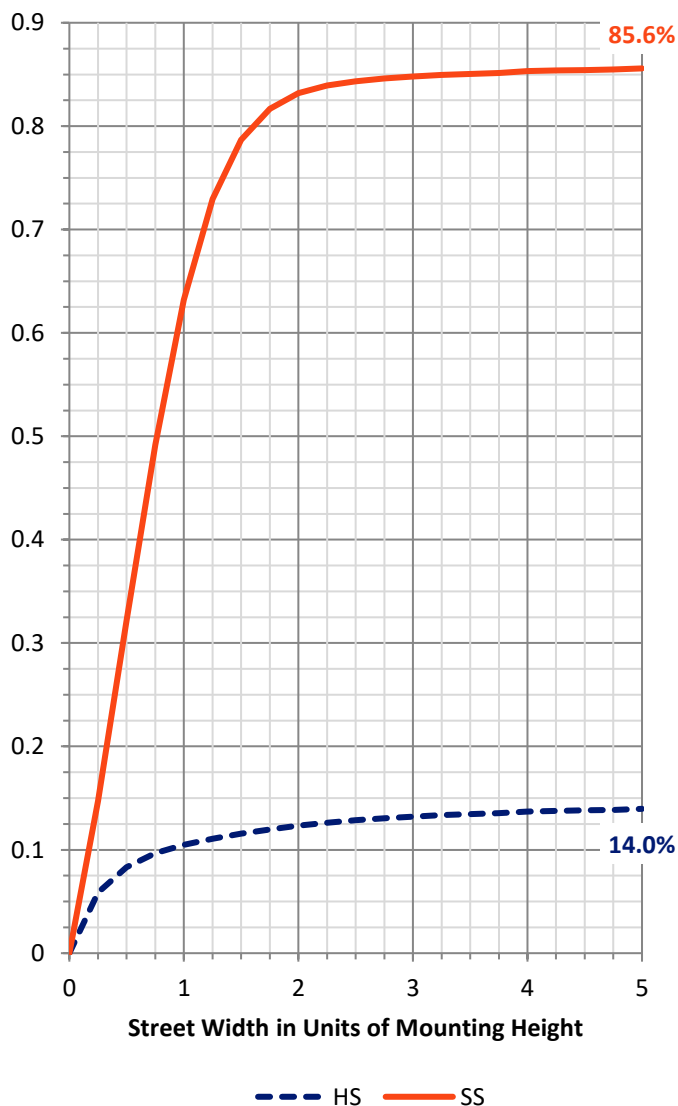
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3410.7	0.0	3410.7
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	20564.0	0.0	20564.0
	% Fixture	85.8	0.0	85.8
Total	Lumens	23974.7	0.0	23974.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	284.2	1.2
10°-20°	1065.9	4.4
20°-30°	1981.6	8.3
30°-40°	3141.3	13.1
40°-50°	4344.7	18.1
50°-60°	5344.3	22.3
60°-70°	4973.1	20.7
70°-80°	2495.5	10.4
80°-90°	344.1	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°	23974.7	100.0
0°-180°	23974.7	100.0

Coefficient of Utilization



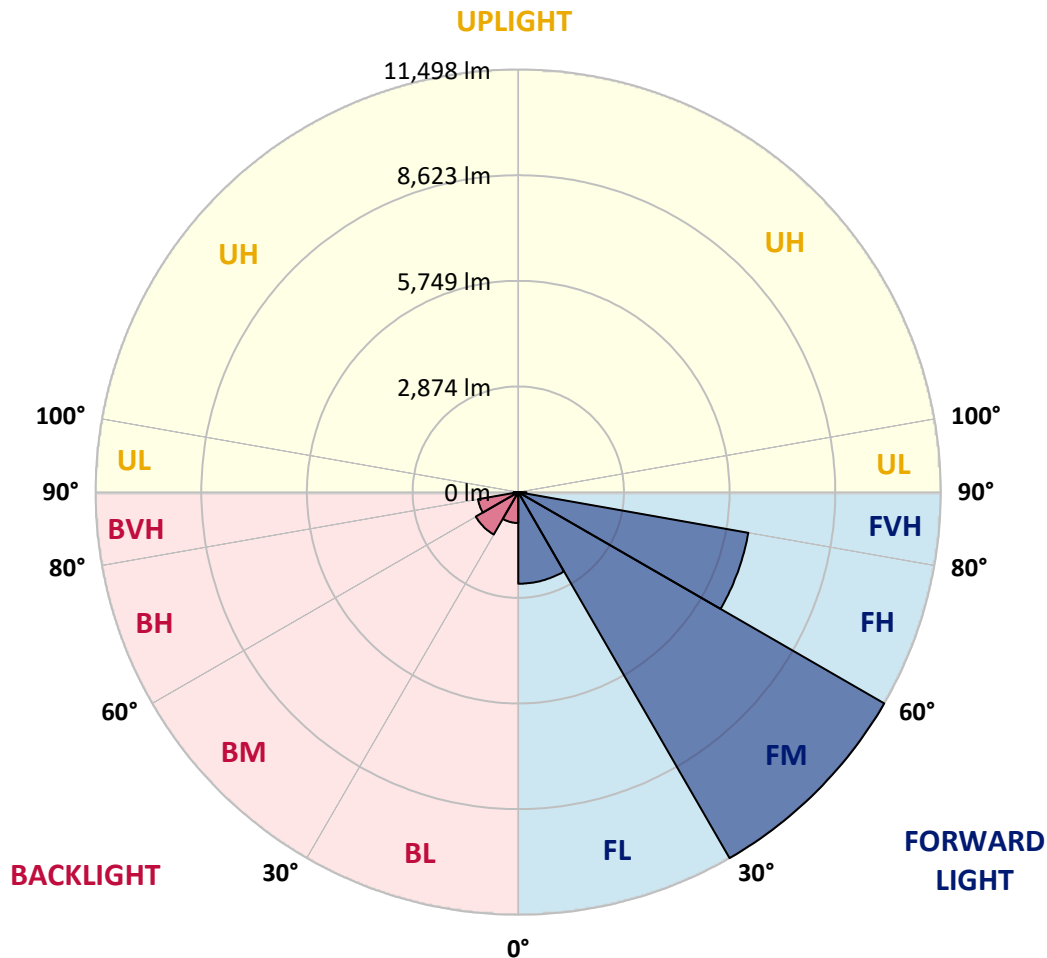
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2491.8	10.4			
FM (30°-60°)	11497.5	48.0			
FH (60°-80°)	6355.5	26.5			G3/7500
FVH (80°-90°)	219.2	0.9			G2/225
BL (0°-30°)	839.9	3.5	B2/1000		
BM (30°-60°)	1332.8	5.6	B2/2500		
BH (60°-80°)	1113.1	4.6	B3/2500		G3/2500
BVH (80°-90°)	124.9	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°	2453.4	2453.4	2453.4	2453.4	2453.4	2453.4	2453.4	2453.4	2453.4	2453.4	2453.4
2.5°	3404.2	3363.2	3322.3	3234.8	3204.8	3122.8	2972.6	2805.9	2669.3	2650.2	2554.5
5°	4223.9	4163.8	4150.1	4100.9	3945.2	3786.7	3540.8	3273.1	2939.8	2964.4	2636.5
7.5°	4838.6	4803.1	4729.3	4682.9	4590.0	4379.6	4125.5	3770.3	3346.9	3264.9	2819.6
10°	5303.1	5253.9	5251.1	5210.2	5161.0	4945.1	4751.2	4273.0	3729.3	3617.3	3043.6
12.5°	5538.0	5529.8	5674.6	5674.6	5655.5	5565.3	5232.0	4794.9	4092.7	4054.5	3303.1
15°	5792.1	5723.8	5849.5	5945.1	5994.3	6040.7	5764.8	5303.1	4557.2	4483.4	3581.8
17.5°	5792.1	5786.6	5912.3	6070.8	6327.6	6387.7	6237.4	5770.2	4942.4	4887.8	3887.8
20°	5693.7	5773.0	5860.4	6073.5	6352.2	6595.3	6639.1	6248.4	5368.6	5324.9	4234.8
22.5°	6152.7	6076.2	6166.4	6248.4	6464.2	6833.0	6953.3	6669.1	5816.7	5650.0	4549.0
25°	6923.2	6871.3	6805.7	6685.5	6775.7	6936.9	7119.9	6980.6	6199.2	6013.4	4852.3
27.5°	7674.5	7677.3	7535.2	7272.9	7078.9	7111.7	7327.6	7253.8	6521.6	6439.6	5059.9
30°	8742.8	8677.2	8518.8	8163.6	7783.8	7472.4	7436.8	7507.9	6931.4	6772.9	5357.7
32.5°	9543.3	9557.0	9332.9	8822.0	8302.9	8048.8	7737.4	7767.4	7190.9	7073.5	5595.4
35°	10190.8	10174.4	10016.0	9592.5	8977.8	8671.8	8251.0	8078.9	7794.7	7609.0	5958.8
37.5°	10890.2	10756.4	10499.6	10021.4	9628.0	9204.5	8794.7	8406.7	8196.4	7972.3	6270.2
40°	11171.7	11171.7	10827.4	10608.8	10141.6	9822.0	9557.0	8838.4	8685.4	8641.7	6669.1
42.5°	10972.2	11095.2	10953.1	10704.5	10513.2	10108.9	10037.8	9286.5	9289.2	9201.8	7147.2
45°	10953.1	10783.7	10666.2	10729.0	10638.9	10617.0	10797.4	9906.7	9923.1	9912.1	7789.3
47.5°	10403.9	10327.4	10502.3	10606.1	10679.9	11018.7	11537.8	10647.1	10764.6	10682.6	8529.7
50°	9857.5	9843.8	9953.1	10330.2	10649.8	11207.2	12242.6	11789.1	12174.3	12168.9	9871.2
52.5°	8360.3	8505.1	8934.0	9731.8	10521.4	11464.0	12775.4	13248.1	13983.0	14182.5	10983.1
55°	6928.7	6852.2	7486.0	8644.4	9961.3	11565.1	13371.0	14125.1	15207.0	15351.8	12125.2
57.5°	5390.5	5532.6	6032.5	7144.5	8802.9	11065.1	13808.2	14991.2	16589.5	16701.5	13450.2
60°	4021.7	4040.8	4590.0	5486.1	7262.0	9936.7	13950.2	15879.1	18174.1	18493.7	14838.2
62.5°	2529.9	2644.7	3062.7	3945.2	5467.0	8357.6	13313.6	16417.3	19835.2	19919.9	16237.0
65°	1363.3	1437.1	1751.3	2305.9	3819.5	6322.1	11625.2	16094.9	20616.6	21119.3	16859.9
67°	1008.2	1021.8	1166.6	1472.6	2554.5	4759.4	9693.6	14928.3	20971.8	21337.9	16884.5
67.5°	945.3	964.4	1079.2	1322.3	2264.9	4382.3	9188.1	14513.0	20813.3	21206.7	16693.3
70°	808.7	814.2	841.5	909.8	1270.4	2636.5	6256.6	11892.9	19291.5	19668.6	15351.8
72.5°	718.5	724.0	734.9	748.6	860.6	1524.5	3805.8	9152.6	16767.0	17368.1	13245.3
75°	631.1	650.2	655.7	644.8	732.2	991.8	2024.5	6726.5	13677.0	13969.3	10300.1
77.5°	535.5	543.7	554.6	565.5	653.0	740.4	972.6	4540.8	9387.6	9210.0	5570.8
80°	450.8	453.5	461.7	469.9	565.5	565.5	551.9	2453.4	4100.9	3920.6	1882.4
82.5°	322.4	341.5	360.6	382.5	469.9	379.8	360.6	1092.8	1297.8	1234.9	636.6
85°	125.7	153.0	237.7	262.3	297.8	204.9	240.4	472.7	541.0	535.5	237.7
87.5°	21.9	24.6	65.6	101.1	109.3	71.0	114.7	169.4	202.2	218.6	87.4
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°	2453.4	2453.4	2453.4	2453.4	2453.4	2453.4	2453.4	2453.4	2453.4	2453.4	2453.4
2.5°	2475.3	2390.6	2289.5	2188.4	2122.9	2019.0	2010.8	1948.0	1939.8	1918.0	1928.9
5°	2494.4	2393.3	2188.4	2027.2	1953.5	1893.4	1907.0	1879.7	1871.5	1857.8	1836.0
7.5°	2644.7	2445.3	2139.3	1999.9	1945.3	1918.0	1918.0	1885.2	1860.6	1877.0	1893.4
10°	2743.1	2469.8	2177.5	2038.2	1994.5	1934.3	1956.2	1915.2	1928.9	1896.1	1896.1
12.5°	2901.5	2609.2	2256.7	2095.5	2024.5	1969.9	1991.7	1945.3	1934.3	1937.1	1928.9
15°	3114.6	2702.1	2292.3	2128.3	2079.1	2010.8	1994.5	1953.5	1912.5	1898.8	1915.2
17.5°	3314.1	2816.8	2316.8	2147.4	2068.2	1991.7	1972.6	1920.7	1907.0	1866.0	1833.3
20°	3551.8	2953.4	2349.6	2163.8	2027.2	1950.7	1901.6	1849.6	1803.2	1778.6	1789.5
22.5°	3710.2	3024.5	2366.0	2131.1	1967.1	1896.1	1792.3	1756.8	1691.2	1663.9	1642.0
25°	3969.8	3111.9	2325.0	2040.9	1860.6	1745.8	1652.9	1603.8	1557.3	1521.8	1510.9
27.5°	4035.3	3177.5	2229.4	1887.9	1691.2	1571.0	1491.7	1431.6	1401.6	1346.9	1336.0
30°	4226.6	3111.9	2087.3	1702.1	1530.0	1407.0	1327.8	1284.1	1213.1	1199.4	1169.3
32.5°	4349.5	3131.0	1907.0	1521.8	1344.2	1234.9	1183.0	1139.3	1120.2	1054.6	1038.2
35°	4554.5	3065.4	1724.0	1355.1	1191.2	1106.5	1062.8	1049.1	986.3	956.2	928.9
37.5°	4685.6	3027.2	1540.9	1166.6	1024.5	989.0	1002.7	945.3	868.8	811.4	792.3
40°	4915.1	3013.5	1333.3	1010.9	909.8	901.6	945.3	836.0	696.7	647.5	620.2
42.5°	5245.7	2920.6	1172.1	871.5	819.6	855.2	863.4	696.7	617.5	576.5	557.4
45°	5562.6	2939.8	1013.6	721.3	713.1	765.0	745.9	590.1	543.7	513.6	530.0
47.5°	6171.9	3035.4	857.9	601.1	642.0	691.2	579.2	527.3	483.6	461.7	464.5
50°	7114.5	3128.3	721.3	549.2	606.5	625.7	497.2	478.1	475.4	431.7	428.9
52.5°	7680.0	3092.8	696.7	614.7	650.2	625.7	541.0	527.3	505.4	486.3	464.5
55°	8578.9	3196.6	748.6	718.5	737.7	601.1	606.5	601.1	584.7	535.5	549.2
57.5°	9294.7	3264.9	816.9	803.2	792.3	625.7	633.9	636.6	625.7	603.8	622.9
60°	10278.2	3401.5	887.9	890.7	893.4	680.3	694.0	710.4	707.6	699.4	704.9
62.5°	10882.0	3338.7	967.2	1010.9	997.2	792.3	789.6	800.5	800.5	814.2	822.4
65°	10791.9	3106.4	1008.2	1117.4	1046.4	874.3	874.3	879.7	882.5	909.8	912.5
67°	10250.9	2691.1	986.3	1133.8	1046.4	907.1	907.1	912.5	893.4	964.4	942.6
67.5°	9999.6	2568.2	967.2	1120.2	1038.2	904.3	904.3	907.1	890.7	959.0	937.1
70°	8696.3	1907.0	833.3	991.8	961.7	879.7	879.7	863.4	849.7	939.9	920.7
72.5°	7423.2	1385.2	669.4	844.2	868.8	847.0	852.4	811.4	773.2	836.0	819.6
75°	5685.5	1019.1	521.8	650.2	734.9	792.3	827.8	724.0	674.8	691.2	661.2
77.5°	3172.0	663.9	412.6	480.9	560.1	737.7	795.0	653.0	551.9	532.8	532.8
80°	1076.5	388.0	303.3	357.9	385.2	653.0	743.1	530.0	434.4	415.3	401.6
82.5°	407.1	237.7	207.6	245.9	245.9	516.4	606.5	407.1	327.9	423.5	431.7
85°	185.8	142.1	136.6	142.1	142.1	316.9	428.9	265.0	295.1	254.1	224.0
87.5°	73.8	68.3	62.8	60.1	49.2	54.6	147.5	71.0	133.9	35.5	32.8
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)