

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: P480094

Luminaire Tested: **IFLD-L-SA7C-735-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480094
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-735-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (112) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

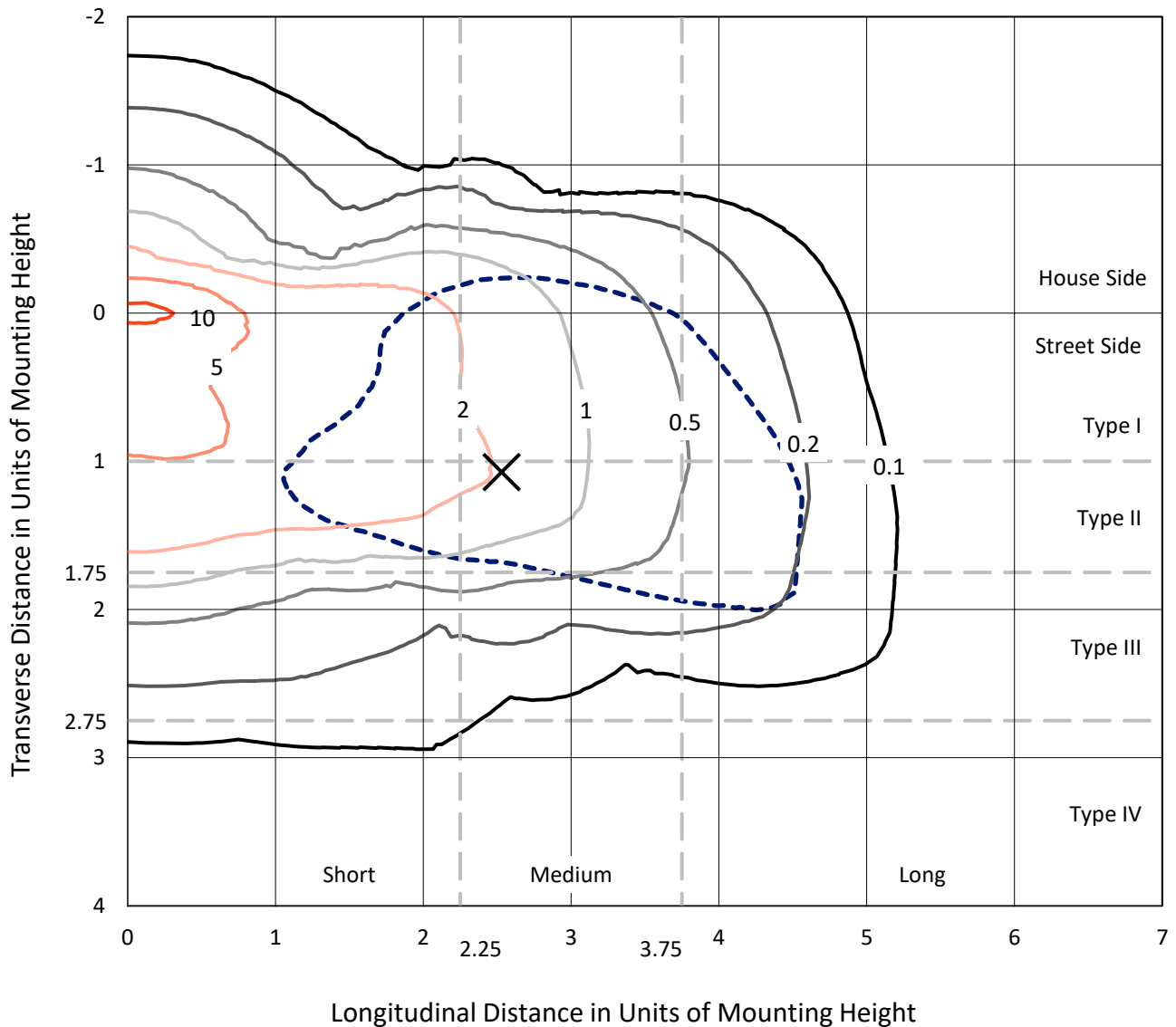
Lumens per Lamp: N/A
Luminaire Lumens: 43594.9 lumens
Efficiency: N/A
Efficacy: 118.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 369
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

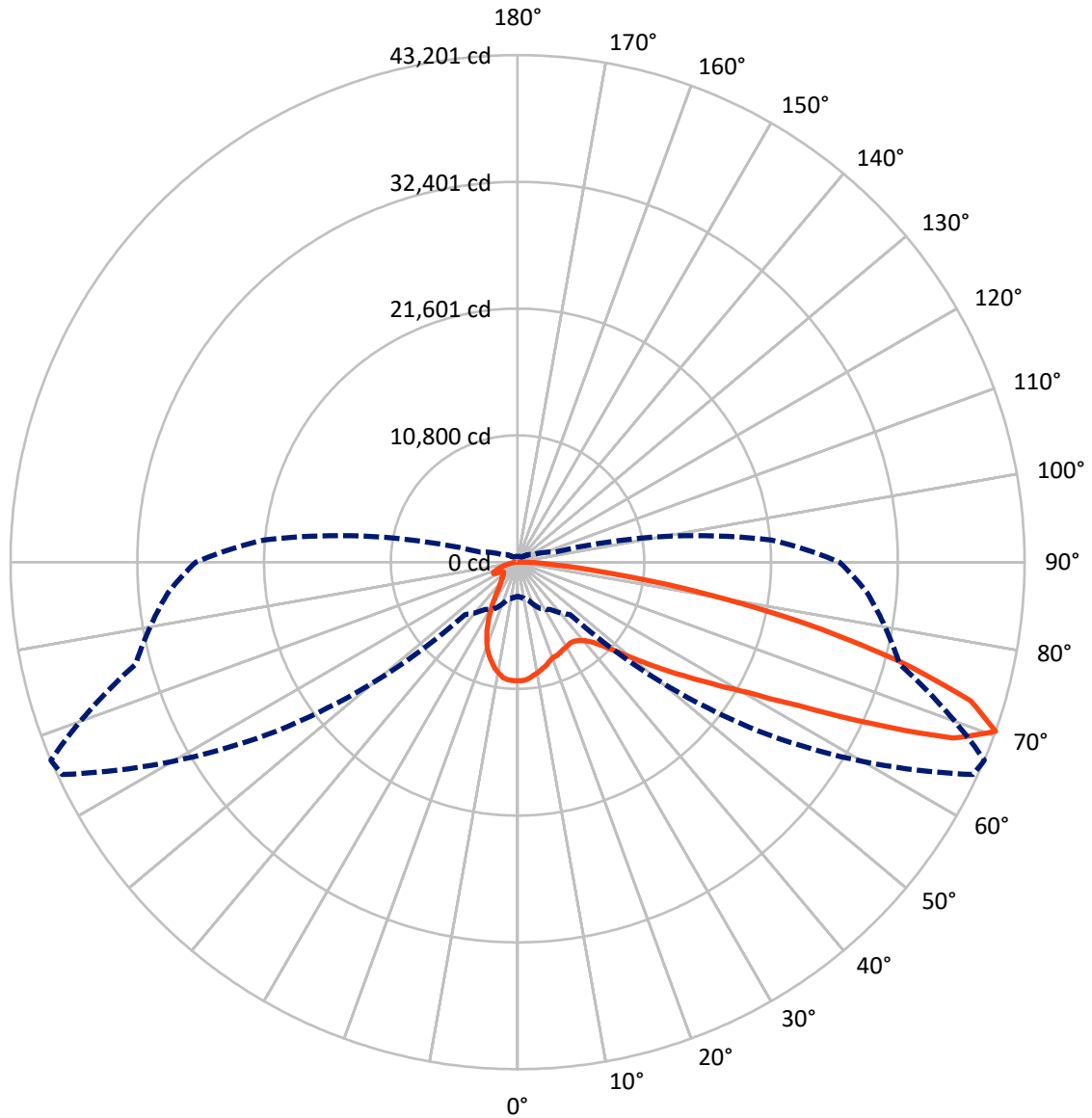
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.3 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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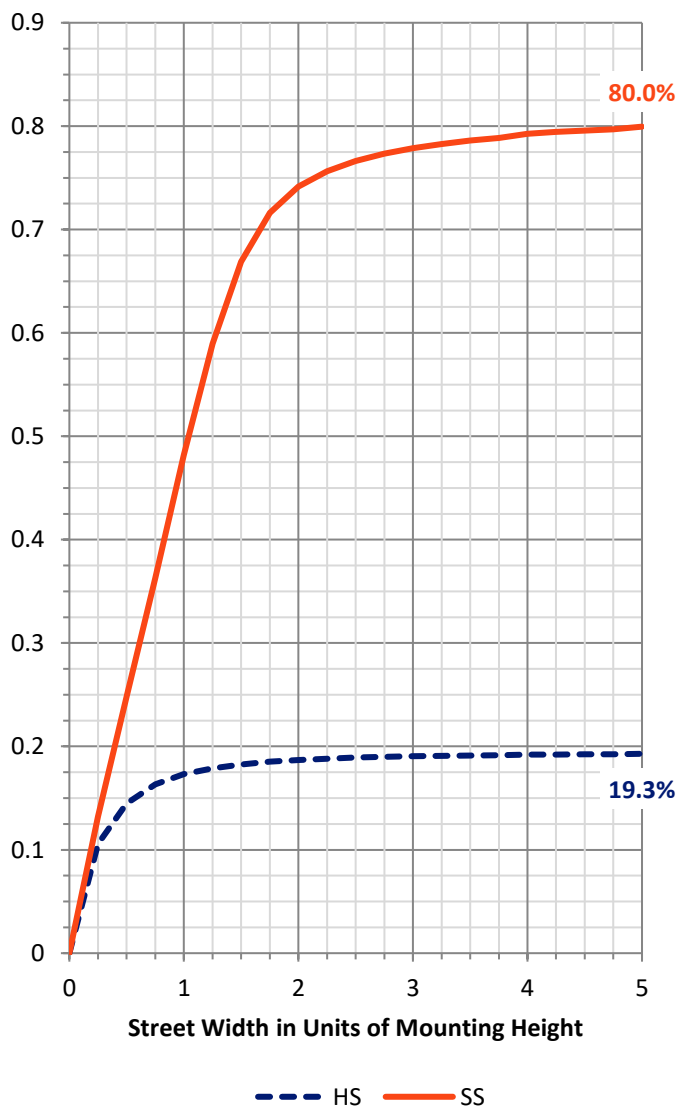
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8490.5	0.0	8490.5
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	35104.4	0.0	35104.4
	% Fixture	80.5	0.0	80.5
Total	Lumens	43594.9	0.0	43594.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	880.5	2.0
10°-20°	2108.9	4.8
20°-30°	2847.9	6.5
30°-40°	3810.8	8.7
40°-50°	5603.6	12.9
50°-60°	8734.7	20.0
60°-70°	10759.7	24.7
70°-80°	7602.7	17.4
80°-90°	1246.1	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°	43594.9	100.0
0°-180°	43594.9	100.0

Coefficient of Utilization



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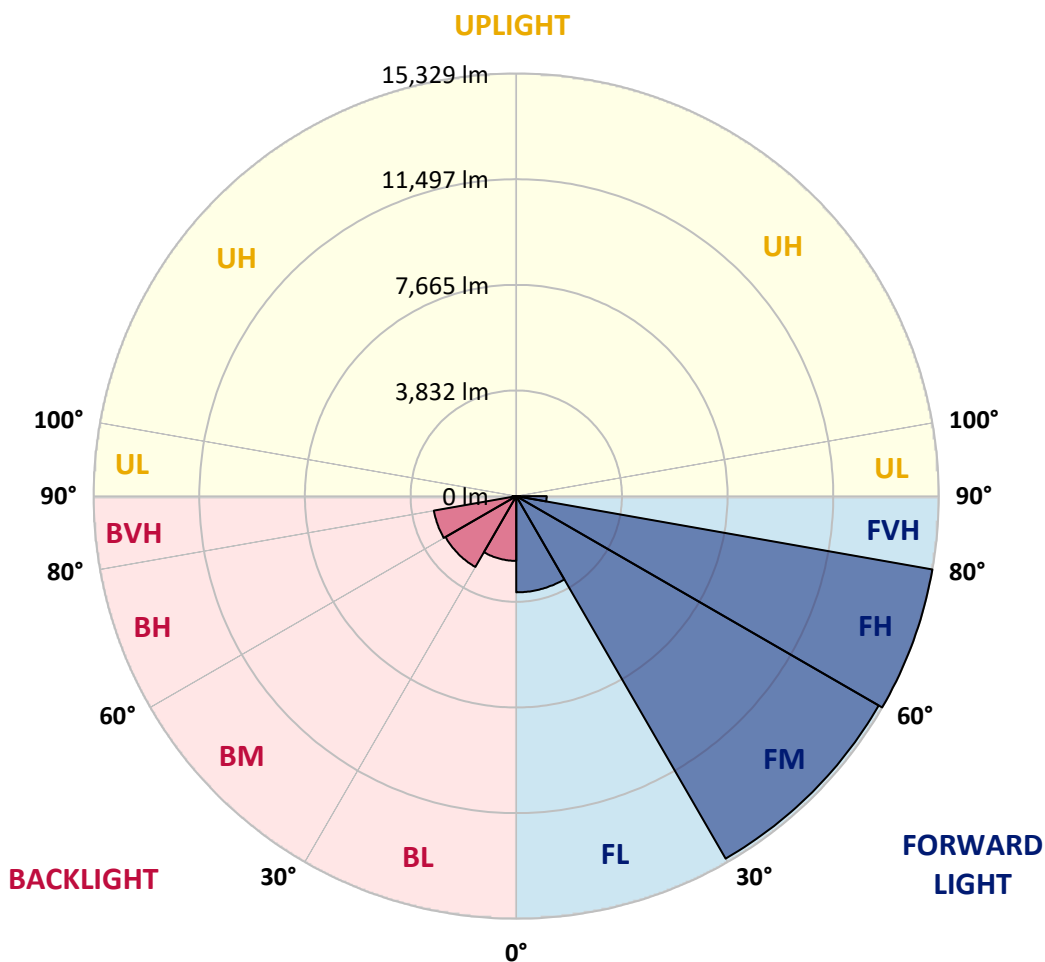
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3489.4	8.0			
FM (30°-60°)	15183.2	34.8			
FH (60°-80°)	15329.4	35.2			G5
FVH (80°-90°)	1102.4	2.5			G5
BL (0°-30°)	2347.9	5.4	B3/2500		
BM (30°-60°)	2965.9	6.8	B3/5000		
BH (60°-80°)	3032.9	7.0	B4/5000		G4/5000
BVH (80°-90°)	143.8	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	10092.1	10092.1	10092.1	10092.1	10092.1	10092.1	10092.1	10092.1	10092.1	10092.1	10092.1
2.5°	9397.1	9503.3	9541.9	9599.8	9749.4	9860.4	9928.0	10005.2	10096.9	10174.1	10222.4
5°	8740.7	8798.6	8890.3	8953.0	9141.3	9440.5	9643.2	9971.4	9961.8	10082.4	10265.8
7.5°	8103.6	8161.5	8204.9	8330.4	8600.7	8871.0	9242.6	9773.5	9734.9	10014.9	10299.6
10°	7707.8	7664.4	7678.9	7891.2	8103.6	8407.7	8875.8	9416.4	9556.3	9990.7	10396.1
12.5°	7336.2	7287.9	7403.8	7538.9	7799.5	8074.6	8634.5	9122.0	9334.3	9903.8	10439.6
15°	7104.5	7070.7	7215.5	7273.4	7582.3	7910.5	8306.3	8899.9	9131.6	9797.7	10372.0
17.5°	6974.2	7003.2	7056.2	7181.7	7379.6	7659.6	8093.9	8750.3	8851.7	9667.4	10357.5
20°	6998.3	7032.1	7036.9	7090.0	7225.2	7442.4	7886.4	8591.1	8658.6	9643.2	10396.1
22.5°	7191.4	7143.1	7162.4	7128.6	7167.3	7336.2	7727.1	8378.7	8639.3	9440.5	10314.1
25°	7481.0	7413.4	7403.8	7287.9	7215.5	7263.8	7698.2	8325.6	8494.5	9377.8	10309.3
27.5°	7992.6	7891.2	7891.2	7717.5	7423.1	7345.8	7616.1	8238.7	8388.3	9319.8	10198.3
30°	8484.9	8484.9	8489.7	8243.6	7915.4	7534.1	7649.9	8204.9	8301.5	9146.1	10048.6
32.5°	9083.4	9068.9	9044.7	8924.1	8417.3	7847.8	7814.0	8161.5	8209.8	9088.2	10005.2
35°	9667.4	9628.7	9817.0	9710.8	9194.4	8460.7	7982.9	8180.8	8287.0	9001.3	9870.1
37.5°	10106.6	10130.7	10521.6	10589.2	10145.2	9155.7	8460.7	8373.9	8475.2	9126.8	9870.1
40°	10676.1	10772.6	11139.4	11366.3	11096.0	10072.8	9218.5	8697.2	8769.6	9406.7	10082.4
42.5°	11424.2	11506.2	11974.4	12268.8	12191.6	11240.8	9966.6	9372.9	9315.0	9874.9	10401.0
45°	12413.6	12428.1	12901.1	13306.5	13465.8	12461.9	11153.9	10227.2	10179.0	10680.9	10985.0
47.5°	13591.2	13576.8	13871.2	14305.6	14735.1	13919.4	12519.8	11525.5	11351.8	11834.4	11955.1
50°	14730.3	14667.5	14735.1	15290.1	16115.5	15743.8	14180.1	13113.4	12939.7	13205.1	13412.7
52.5°	15357.7	15434.9	15251.5	15985.2	17582.7	17901.2	16380.9	15010.2	14860.6	14990.9	15352.9
55°	14918.5	15077.8	14957.1	15652.1	18224.6	20531.7	19228.5	17206.2	17013.2	16964.9	17558.6
57.5°	13050.7	13340.3	13364.4	14464.8	18002.6	22568.4	23234.5	19798.0	19508.5	19016.2	19629.1
60°	10019.7	10309.3	10531.3	11834.4	16101.0	23784.7	27877.5	23485.4	22529.8	21255.6	21622.4
62.5°	7022.5	7220.3	7442.4	8243.6	12413.6	23070.4	31893.1	28678.7	26917.0	23615.7	24074.3
65°	5116.0	5270.5	5497.3	5970.3	7625.8	19088.6	33756.1	34846.9	33176.9	26617.8	26559.9
67.5°	3851.5	3948.0	4247.3	5005.0	5284.9	11791.0	31825.5	41362.6	40011.2	29952.9	28558.0
70°	2915.2	2997.2	3277.1	4314.8	4937.4	6322.6	25107.1	42815.3	43201.4	33693.3	29899.8
72.5°	2007.8	2099.5	2413.2	3595.7	4700.9	5014.7	15758.3	38896.2	40358.7	35233.0	28461.5
75°	1230.7	1293.5	1476.9	2726.9	4667.2	4903.7	8673.1	31873.8	33423.1	32554.3	24899.6
77.5°	868.8	863.9	897.7	1597.6	4044.6	4932.6	5347.7	23355.1	24861.0	23992.2	16897.4
80°	632.3	637.1	670.9	955.6	2746.2	5014.7	4213.5	15642.5	16091.3	12510.1	6665.3
82.5°	381.3	400.6	482.6	646.7	1650.6	4527.2	3894.9	8692.4	8132.5	4015.6	1834.0
85°	202.7	202.7	284.8	410.2	878.4	3378.5	3750.1	4136.3	3465.4	1245.2	680.5
87.5°	48.3	48.3	82.0	164.1	352.3	1616.9	2558.0	1645.8	1317.6	419.9	279.9
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°	10092.1	10092.1	10092.1	10092.1	10092.1	10092.1	10092.1	10092.1	10092.1	10092.1	10092.1
2.5°	10203.1	10145.2	10217.6	10072.8	9956.9	9961.8	9783.2	9773.5	9749.4	9623.9	9667.4
5°	10318.9	10270.7	10188.6	10029.3	9773.5	9517.7	9363.3	9165.4	9083.4	9039.9	9059.2
7.5°	10429.9	10343.1	10106.6	9884.5	9488.8	9006.1	8726.2	8460.7	8122.9	8084.3	8016.7
10°	10458.9	10275.5	9971.4	9498.4	8972.3	8436.6	7799.5	7307.2	7046.6	6843.9	6766.7
12.5°	10415.4	10338.2	9754.2	9146.1	8349.7	7509.9	6766.7	6071.7	5589.0	5338.0	5270.5
15°	10410.6	10275.5	9512.9	8610.4	7592.0	6496.4	5439.4	4604.4	4097.6	3890.1	3890.1
17.5°	10415.4	10092.1	9228.1	8069.8	6699.1	5217.4	4054.2	3368.9	3088.9	3060.0	3084.1
20°	10318.9	9956.9	8928.9	7432.7	5579.4	3919.1	2944.1	2664.2	2664.2	2702.8	2717.3
22.5°	10232.0	9754.2	8455.9	6646.0	4440.3	2837.9	2393.9	2311.9	2403.6	2471.1	2500.1
25°	10111.4	9585.3	7973.3	5830.3	3378.5	2287.7	2080.2	2099.5	2186.4	2307.0	2297.4
27.5°	9937.6	9290.9	7398.9	4884.4	2514.6	1974.0	1920.9	1930.6	2022.3	2075.4	2065.7
30°	9739.7	8991.6	6868.0	3943.2	1993.3	1809.9	1805.1	1829.2	1843.7	1872.7	1867.8
32.5°	9488.8	8595.9	6303.3	3064.8	1795.4	1718.2	1698.9	1684.4	1698.9	1694.1	1679.6
35°	9310.2	8383.5	5729.0	2336.0	1684.4	1636.2	1621.7	1597.6	1578.2	1549.3	1544.5
37.5°	9261.9	8171.2	5125.7	1906.4	1597.6	1573.4	1525.2	1481.7	1457.6	1443.1	1433.5
40°	9233.0	8031.2	4536.8	1674.8	1525.2	1501.0	1443.1	1385.2	1361.1	1346.6	1351.4
42.5°	9334.3	7954.0	3938.4	1558.9	1462.4	1419.0	1356.2	1288.7	1283.8	1274.2	1288.7
45°	9691.5	8050.5	3383.3	1476.9	1399.7	1327.3	1245.2	1211.4	1206.6	1197.0	1206.6
47.5°	10502.3	8291.8	2910.3	1423.8	1332.1	1269.4	1182.5	1134.2	1129.4	1124.6	1124.6
50°	11622.1	9035.1	2514.6	1361.1	1288.7	1201.8	1119.7	1066.6	1057.0	1037.7	1037.7
52.5°	13378.9	10285.1	2278.1	1327.3	1211.4	1139.0	1052.2	994.2	970.1	950.8	950.8
55°	15357.7	11834.4	2234.6	1269.4	1129.4	1061.8	984.6	926.7	902.5	878.4	868.8
57.5°	17611.7	13885.7	2543.5	1230.7	1071.5	984.6	897.7	844.6	825.3	801.2	791.5
60°	19711.2	15932.1	3504.0	1172.8	1018.4	912.2	825.3	772.2	748.1	724.0	724.0
62.5°	22138.9	18465.9	5130.5	1172.8	970.1	835.0	748.1	709.5	695.0	670.9	666.0
65°	25010.6	21086.7	6317.8	1245.2	955.6	767.4	675.7	637.1	622.6	608.1	603.3
67.5°	27197.0	22592.5	5434.6	1438.3	1018.4	709.5	603.3	579.2	569.5	555.0	545.4
70°	27428.6	21675.5	3277.1	1554.1	1081.1	651.6	540.6	516.4	516.4	501.9	492.3
72.5°	25348.4	19233.3	2205.7	1385.2	979.8	584.0	477.8	458.5	448.9	439.2	434.4
75°	21212.2	16313.4	1742.3	1105.3	752.9	482.6	415.1	395.8	381.3	376.5	366.8
77.5°	14247.6	10603.7	1288.7	863.9	555.0	390.9	347.5	328.2	313.7	308.9	294.4
80°	5473.2	4039.7	830.1	627.4	390.9	308.9	275.1	255.8	246.1	231.7	222.0
82.5°	1612.0	1308.0	463.3	386.1	251.0	212.4	197.9	183.4	168.9	154.4	149.6
85°	666.0	598.5	284.8	202.7	154.4	125.5	115.8	101.4	86.9	77.2	67.6
87.5°	308.9	255.8	130.3	77.2	53.1	29.0	14.5	4.8	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)