

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: P477012

Luminaire Tested: **IFLD-L-SA7B-740-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477012
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-740-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (112) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

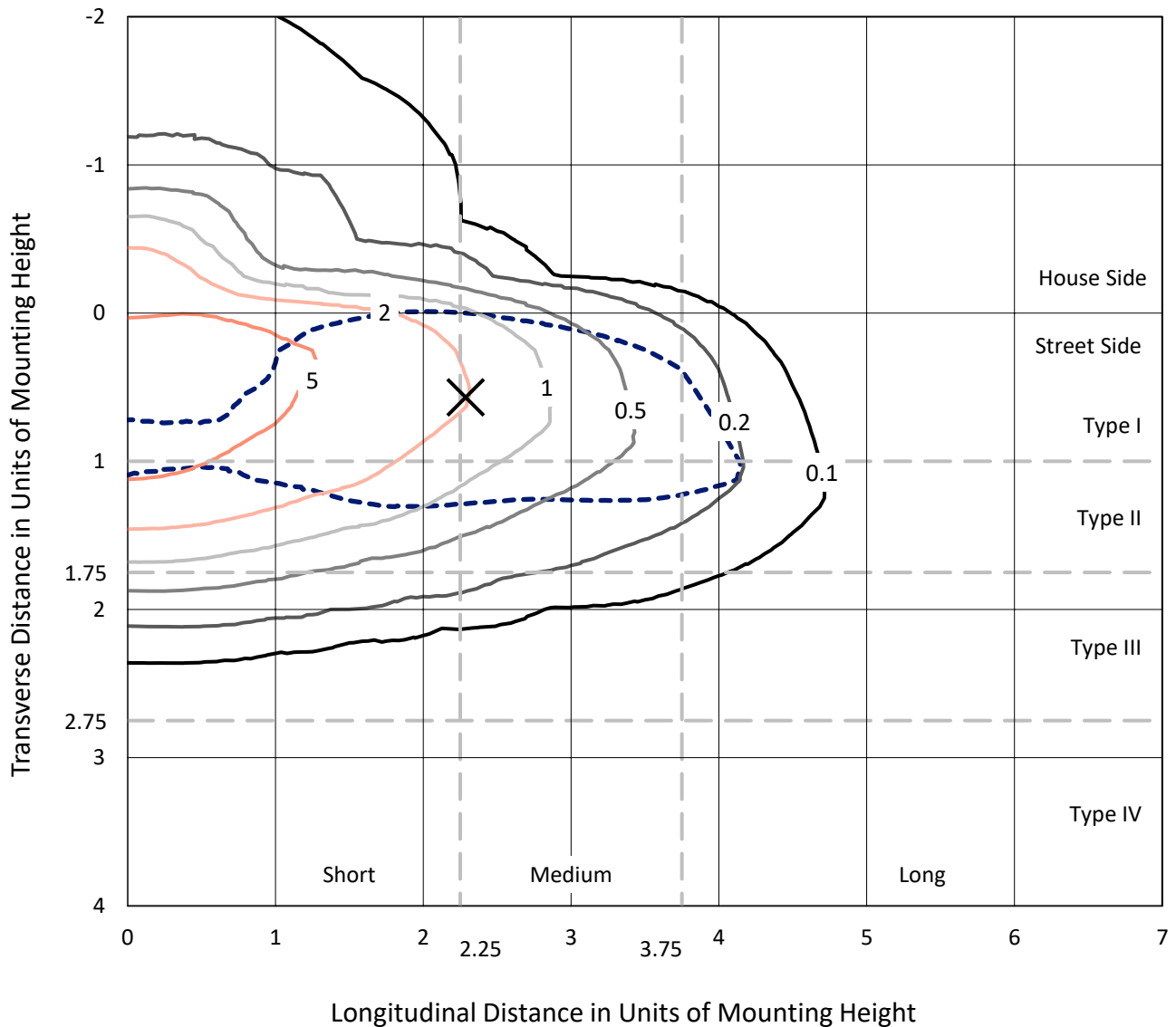
Lumens per Lamp: N/A
Luminaire Lumens: 35812.2 lumens
Efficiency: N/A
Efficacy: 127.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 281
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

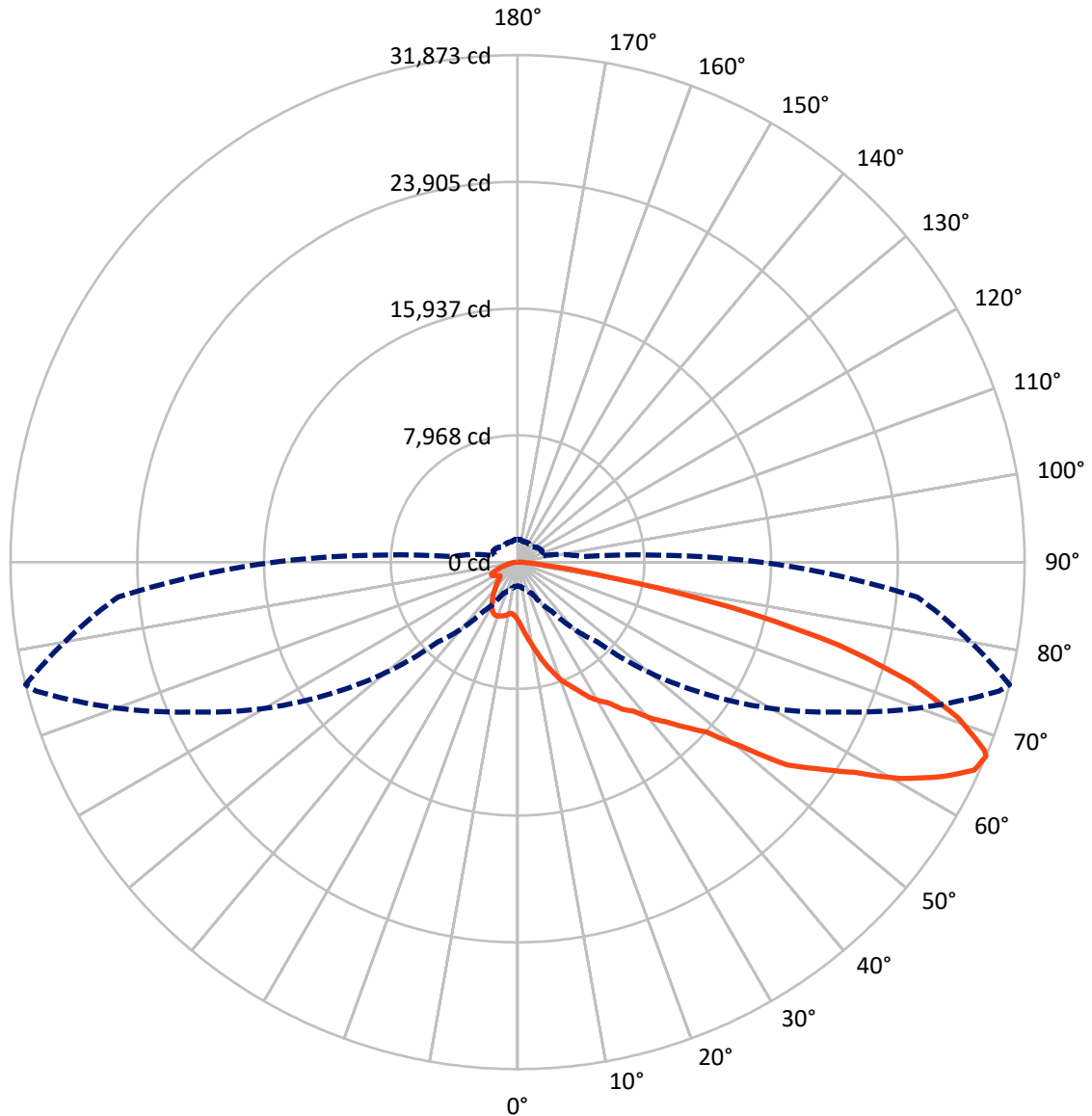
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.5 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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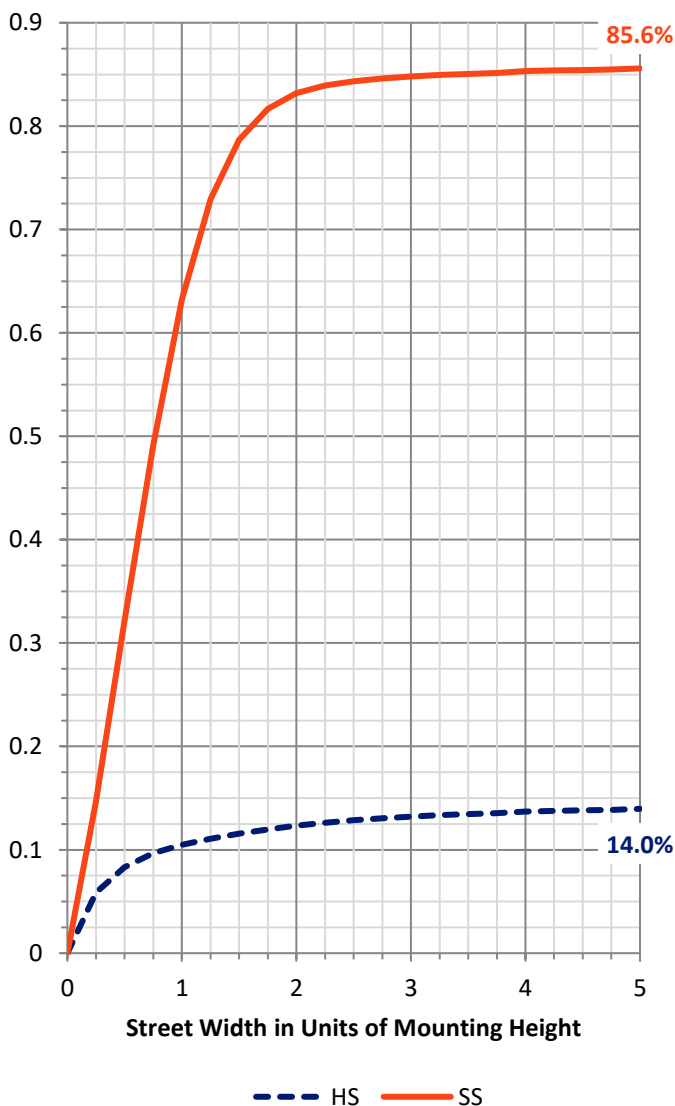
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5094.7	0.0	5094.7
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	30717.5	0.0	30717.5
	% Fixture	85.8	0.0	85.8
Total	Lumens	35812.2	0.0	35812.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	424.5	1.2
10°-20°	1592.2	4.4
20°-30°	2960.0	8.3
30°-40°	4692.3	13.1
40°-50°	6489.9	18.1
50°-60°	7983.0	22.3
60°-70°	7428.6	20.7
70°-80°	3727.6	10.4
80°-90°	514.0	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°	35812.2	100.0
0°-180°	35812.2	100.0

Coefficient of Utilization



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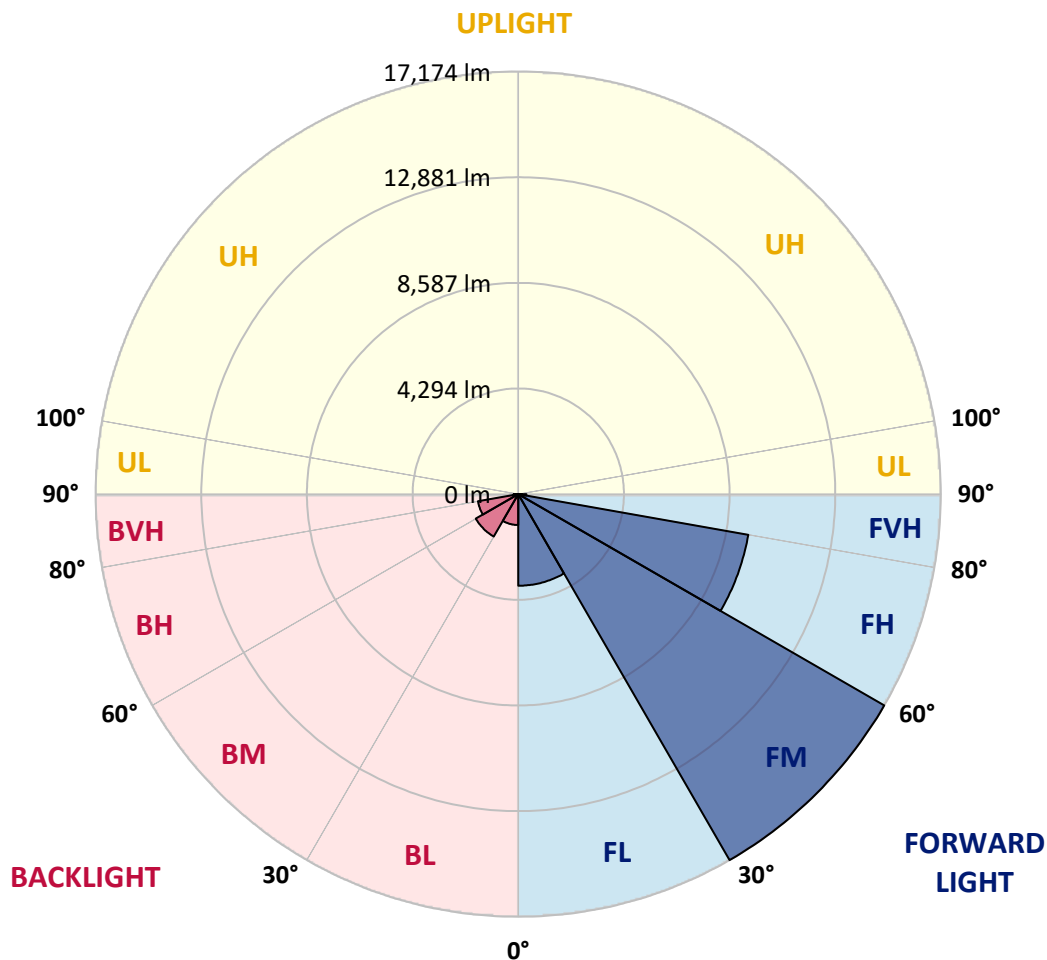
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3722.1	10.4			
FM (30°-60°)	17174.4	48.0			
FH (60°-80°)	9493.5	26.5			G4/12000
FVH (80°-90°)	327.5	0.9			G3/500
BL (0°-30°)	1254.6	3.5	B3/2500		
BM (30°-60°)	1990.9	5.6	B2/2500		
BH (60°-80°)	1662.7	4.6	B3/2500		G3/2500
BVH (80°-90°)	186.5	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-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3664.8	3664.8	3664.8	3664.8	3664.8	3664.8	3664.8	3664.8	3664.8	3664.8	3664.8
2.5°	5085.1	5023.8	4962.6	4832.0	4787.1	4664.7	4440.2	4191.3	3987.2	3958.7	3815.8
5°	6309.4	6219.6	6199.2	6125.7	5893.1	5656.4	5289.1	4889.2	4391.3	4428.0	3938.3
7.5°	7227.6	7174.6	7064.4	6995.0	6856.3	6542.0	6162.5	5631.9	4999.4	4876.9	4211.7
10°	7921.4	7848.0	7843.9	7782.7	7709.2	7386.8	7097.0	6382.9	5570.7	5403.4	4546.4
12.5°	8272.4	8260.2	8476.5	8476.5	8447.9	8313.2	7815.3	7162.3	6113.5	6056.4	4934.1
15°	8651.9	8549.9	8737.6	8880.5	8953.9	9023.3	8611.1	7921.4	6807.3	6697.1	5350.3
17.5°	8651.9	8643.8	8831.5	9068.2	9451.8	9541.6	9317.2	8619.3	7382.7	7301.1	5807.4
20°	8505.0	8623.4	8754.0	9072.3	9488.6	9851.8	9917.1	9333.5	8019.4	7954.1	6325.7
22.5°	9190.7	9076.4	9211.1	9333.5	9655.9	10206.8	10386.4	9962.0	8688.7	8439.7	6795.0
25°	10341.5	10264.0	10166.0	9986.5	10121.1	10361.9	10635.4	10427.2	9260.0	8982.5	7248.0
27.5°	11463.8	11467.9	11255.7	10863.9	10574.1	10623.1	10945.5	10835.3	9741.6	9619.2	7558.2
30°	13059.5	12961.6	12724.9	12194.3	11627.1	11161.8	11108.8	11214.9	10353.8	10117.1	8003.1
32.5°	14255.3	14275.7	13941.1	13177.9	12402.5	12022.9	11557.7	11602.6	10741.5	10566.0	8358.1
35°	15222.5	15198.0	14961.3	14328.8	13410.5	12953.4	12324.9	12067.8	11643.4	11365.9	8900.9
37.5°	16267.3	16067.3	15683.7	14969.5	14381.8	13749.2	13137.1	12557.6	12243.3	11908.7	9366.1
40°	16687.6	16687.6	16173.4	15846.9	15149.1	14671.6	14275.7	13202.4	12973.8	12908.5	9962.0
42.5°	16389.7	16573.4	16361.2	15989.8	15704.1	15100.1	14994.0	13871.7	13875.8	13745.2	10676.2
45°	16361.2	16108.1	15932.6	16026.5	15891.8	15859.2	16128.5	14798.1	14822.6	14806.3	11635.2
47.5°	15540.9	15426.6	15687.8	15842.9	15953.0	16459.1	17234.5	15904.1	16079.6	15957.1	12741.2
50°	14724.6	14704.2	14867.5	15430.7	15908.2	16740.7	18287.4	17610.0	18185.4	18177.3	14745.0
52.5°	12488.2	12704.5	13345.2	14536.9	15716.3	17124.3	19083.3	19789.3	20887.1	21185.0	16406.0
55°	10349.7	10235.4	11182.2	12912.6	14879.7	17275.3	19972.9	21099.3	22715.4	22931.7	18112.0
57.5°	8052.0	8264.2	9011.1	10672.1	13149.3	16528.5	20625.9	22393.0	24780.5	24947.8	20091.3
60°	6007.4	6036.0	6856.3	8194.9	10847.6	14843.0	20838.1	23719.4	27147.5	27625.0	22164.5
62.5°	3779.1	3950.5	4574.9	5893.1	8166.3	12484.1	19887.2	24523.4	29628.8	29755.4	24254.0
65°	2036.5	2146.7	2616.0	3444.5	5705.4	9443.7	17365.1	24041.8	30796.0	31547.0	25184.5
67°	1505.9	1526.3	1742.6	2199.7	3815.8	7109.3	14479.8	22299.2	31326.6	31873.4	25221.2
67.5°	1412.1	1440.6	1612.0	1975.3	3383.2	6546.1	13724.8	21678.8	31089.9	31677.6	24935.6
70°	1208.0	1216.2	1257.0	1359.0	1897.7	3938.3	9345.7	17765.1	28816.7	29379.9	22931.7
72.5°	1073.3	1081.5	1097.8	1118.2	1285.5	2277.3	5685.0	13671.7	25045.8	25943.6	19785.2
75°	942.7	971.3	979.5	963.1	1093.7	1481.4	3024.1	10047.7	20430.0	20866.7	15385.8
77.5°	799.9	812.1	828.5	844.8	975.4	1106.0	1452.9	6782.8	14022.7	13757.4	8321.4
80°	673.4	677.5	689.7	702.0	844.8	844.8	824.4	3664.8	6125.7	5856.4	2811.9
82.5°	481.6	510.1	538.7	571.4	702.0	567.3	538.7	1632.4	1938.5	1844.7	950.9
85°	187.7	228.5	355.1	391.8	444.8	306.1	359.1	706.0	808.1	799.9	355.1
87.5°	32.6	36.7	97.9	151.0	163.2	106.1	171.4	253.0	302.0	326.5	130.6
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°	3664.8	3664.8	3664.8	3664.8	3664.8	3664.8	3664.8	3664.8	3664.8	3664.8	3664.8
2.5°	3697.5	3571.0	3420.0	3269.0	3171.0	3015.9	3003.7	2909.8	2897.6	2864.9	2881.3
5°	3726.1	3575.0	3269.0	3028.2	2918.0	2828.2	2848.6	2807.8	2795.6	2775.2	2742.5
7.5°	3950.5	3652.6	3195.5	2987.4	2905.7	2864.9	2864.9	2816.0	2779.2	2803.7	2828.2
10°	4097.4	3689.3	3252.6	3044.5	2979.2	2889.4	2922.1	2860.9	2881.3	2832.3	2832.3
12.5°	4334.1	3897.5	3371.0	3130.2	3024.1	2942.5	2975.1	2905.7	2889.4	2893.5	2881.3
15°	4652.5	4036.2	3424.0	3179.2	3105.7	3003.7	2979.2	2918.0	2856.8	2836.4	2860.9
17.5°	4950.4	4207.6	3460.8	3207.8	3089.4	2975.1	2946.6	2869.0	2848.6	2787.4	2738.4
20°	5305.4	4411.7	3509.8	3232.2	3028.2	2913.9	2840.5	2762.9	2693.5	2656.8	2673.1
22.5°	5542.1	4517.8	3534.2	3183.3	2938.4	2832.3	2677.2	2624.2	2526.2	2485.4	2452.7
25°	5929.8	4648.4	3473.0	3048.6	2779.2	2607.8	2469.1	2395.6	2326.2	2273.2	2256.9
27.5°	6027.8	4746.3	3330.2	2820.0	2526.2	2346.6	2228.3	2138.5	2093.6	2012.0	1995.7
30°	6313.5	4648.4	3118.0	2542.5	2285.4	2101.8	1983.4	1918.1	1812.0	1791.6	1746.7
32.5°	6497.1	4676.9	2848.6	2273.2	2007.9	1844.7	1767.1	1701.8	1673.3	1575.3	1550.8
35°	6803.2	4579.0	2575.2	2024.2	1779.4	1652.8	1587.6	1567.1	1473.3	1428.4	1387.6
37.5°	6999.1	4521.9	2301.7	1742.6	1530.4	1477.4	1497.8	1412.1	1297.8	1212.1	1183.5
40°	7341.9	4501.5	1991.6	1510.0	1359.0	1346.8	1412.1	1248.8	1040.7	967.2	926.4
42.5°	7835.7	4362.7	1750.8	1301.9	1224.3	1277.4	1289.6	1040.7	922.3	861.1	832.5
45°	8309.1	4391.3	1514.1	1077.4	1065.2	1142.7	1114.1	881.5	812.1	767.2	791.7
47.5°	9219.2	4534.1	1281.5	897.8	959.1	1032.5	865.2	787.7	722.4	689.7	693.8
50°	10627.2	4672.9	1077.4	820.3	906.0	934.6	742.8	714.2	710.1	644.8	640.7
52.5°	11472.0	4619.8	1040.7	918.2	971.3	934.6	808.1	787.7	755.0	726.4	693.8
55°	12814.7	4774.9	1118.2	1073.3	1101.9	897.8	906.0	897.8	873.4	799.9	820.3
57.5°	13883.9	4876.9	1220.3	1199.8	1183.5	934.6	946.8	950.9	934.6	901.9	930.5
60°	15353.1	5081.0	1326.4	1330.4	1334.5	1016.2	1036.6	1061.1	1057.0	1044.8	1052.9
62.5°	16255.0	4987.1	1444.7	1510.0	1489.6	1183.5	1179.4	1195.8	1195.8	1216.2	1228.4
65°	16120.4	4640.2	1505.9	1669.2	1563.1	1306.0	1306.0	1314.1	1318.2	1359.0	1363.1
67°	15312.3	4019.9	1473.3	1693.7	1563.1	1354.9	1354.9	1363.1	1334.5	1440.6	1408.0
67.5°	14936.9	3836.2	1444.7	1673.3	1550.8	1350.8	1350.8	1354.9	1330.4	1432.5	1399.8
70°	12990.2	2848.6	1244.7	1481.4	1436.5	1314.1	1314.1	1289.6	1269.2	1403.9	1375.3
72.5°	11088.4	2069.1	999.9	1261.1	1297.8	1265.1	1273.3	1212.1	1155.0	1248.8	1224.3
75°	8492.8	1522.3	779.5	971.3	1097.8	1183.5	1236.6	1081.5	1008.0	1032.5	987.6
77.5°	4738.2	991.7	616.2	718.3	836.6	1101.9	1187.6	975.4	824.4	795.8	795.8
80°	1608.0	579.5	453.0	534.6	575.4	975.4	1110.1	791.7	648.9	620.3	599.9
82.5°	608.1	355.1	310.2	367.3	367.3	771.3	906.0	608.1	489.7	632.6	644.8
85°	277.5	212.2	204.1	212.2	212.2	473.4	640.7	395.9	440.8	379.5	334.7
87.5°	110.2	102.0	93.9	89.8	73.5	81.6	220.4	106.1	200.0	53.1	49.0
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)