

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: P480559

Luminaire Tested: **IFLD-M-SA4E-750-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480559
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4E-750-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

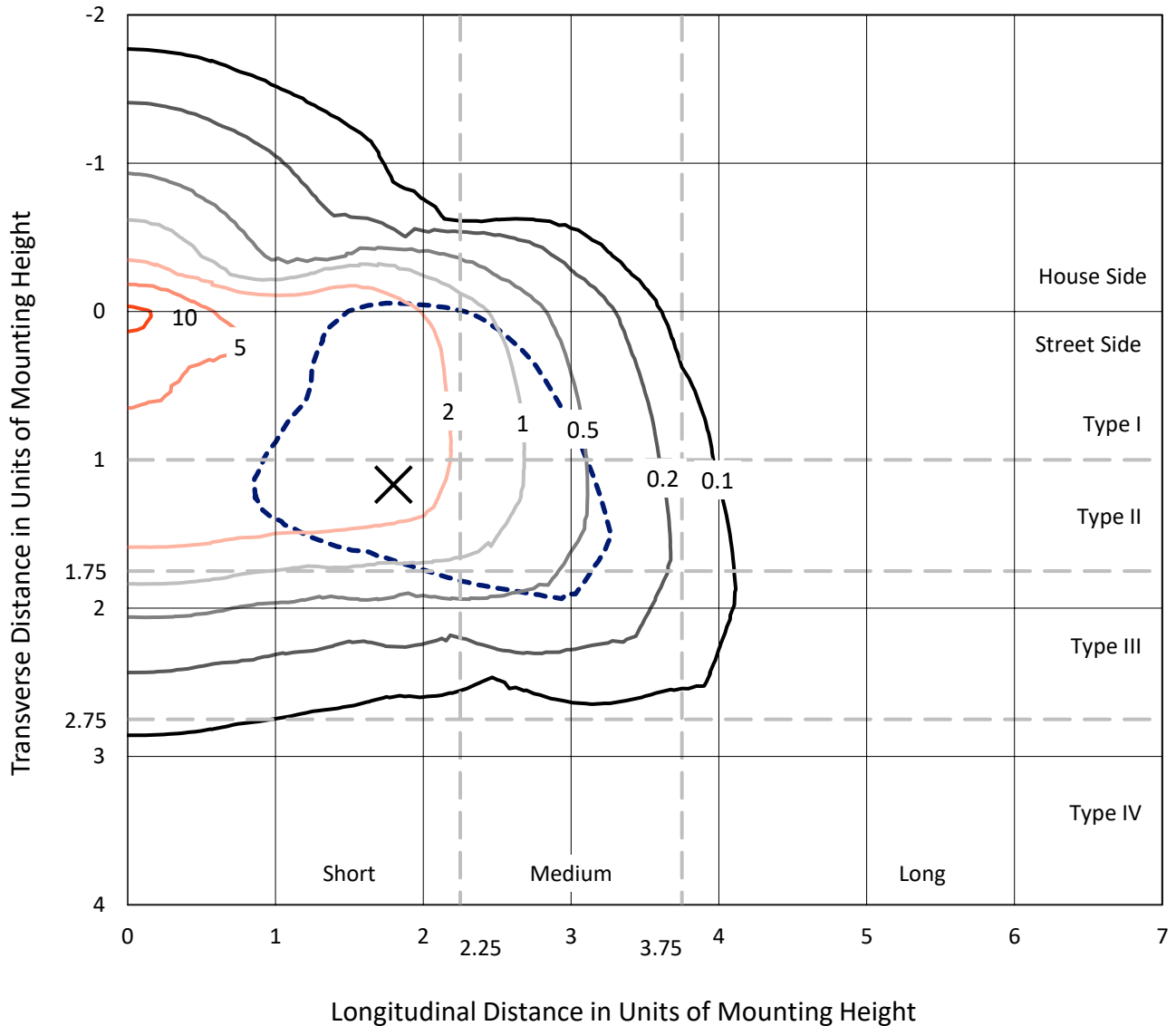
Lumens per Lamp: N/A
Luminaire Lumens: 36542.1 lumens
Efficiency: N/A
Efficacy: 116.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 314.8
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

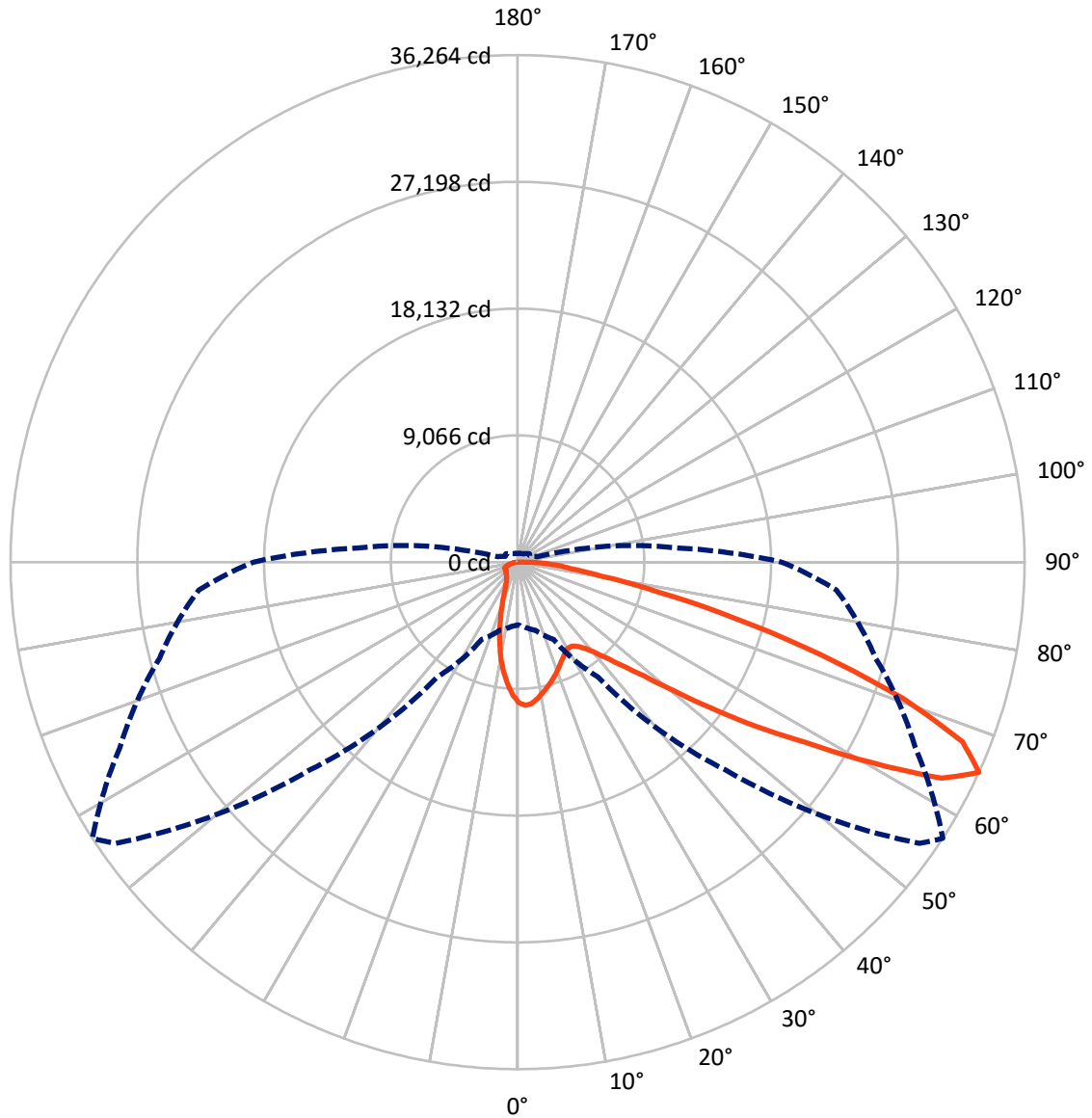
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.2 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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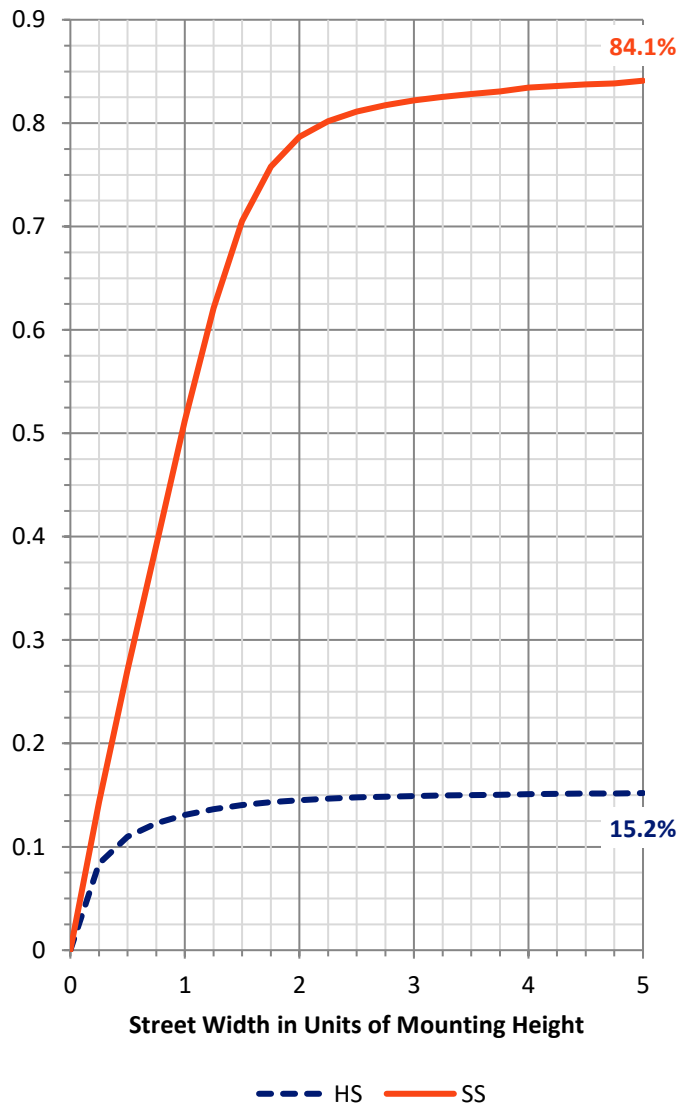
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5604.1	0.0	5604.1
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	30938.0	0.0	30938.0
	% Fixture	84.7	0.0	84.7
Total	Lumens	36542.1	0.0	36542.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	841.5	2.3
10°-20°	1811.0	5.0
20°-30°	2341.5	6.4
30°-40°	3150.9	8.6
40°-50°	5024.2	13.7
50°-60°	8874.0	24.3
60°-70°	9762.5	26.7
70°-80°	4083.8	11.2
80°-90°	652.7	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°	36542.1	100.0
0°-180°	36542.1	100.0

Coefficient of Utilization



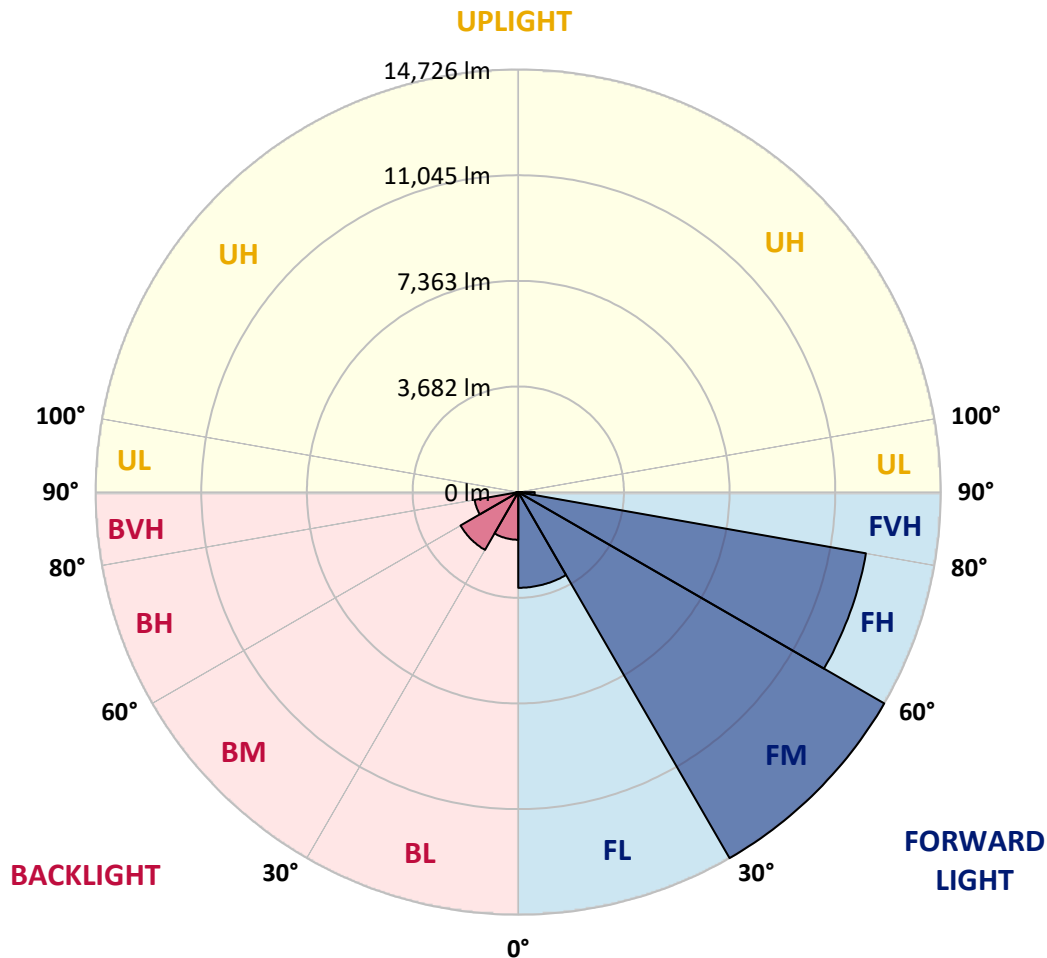
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3334.3	9.1			
FM (30°-60°)	14726.4	40.3			
FH (60°-80°)	12301.2	33.7			G5
FVH (80°-90°)	576.1	1.6			G4/750
BL (0°-30°)	1659.7	4.5	B3/2500		
BM (30°-60°)	2322.6	6.4	B2/2500		
BH (60°-80°)	1545.2	4.2	B3/2500		G3/2500
BVH (80°-90°)	76.6	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-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	10048.6	10048.6	10048.6	10048.6	10048.6	10048.6	10048.6	10048.6	10048.6	10048.6	10048.6
2.5°	10319.9	10336.4	10336.4	10369.3	10258.2	10311.7	10303.5	10254.1	10270.6	10184.2	10097.9
5°	10028.0	10015.7	10081.4	10089.7	10176.0	10200.7	10221.2	10188.3	10196.6	10007.4	9925.2
7.5°	9279.7	9275.6	9386.6	9481.2	9662.1	9830.6	9941.7	9908.8	9954.0	9834.8	9641.5
10°	8391.6	8486.2	8601.3	8695.9	9028.9	9242.7	9530.5	9559.3	9732.0	9703.2	9353.7
12.5°	7725.5	7766.7	7853.0	8124.4	8428.6	8782.2	9193.4	9230.4	9398.9	9481.2	9176.9
15°	7178.7	7215.7	7326.7	7528.2	7869.4	8288.8	8811.0	8905.6	9242.7	9271.5	8946.7
17.5°	6779.9	6808.7	6882.7	7084.1	7363.7	7902.3	8395.7	8564.3	9008.3	9148.1	8708.2
20°	6623.7	6562.0	6603.1	6730.6	7010.1	7425.4	8062.7	8210.7	8778.1	9053.6	8482.1
22.5°	6553.8	6500.3	6525.0	6516.8	6738.8	7034.8	7705.0	7861.2	8560.2	8942.6	8280.6
25°	6607.2	6607.2	6582.5	6562.0	6586.7	6779.9	7318.5	7561.1	8268.3	8848.0	8075.0
27.5°	6895.0	6784.0	6796.3	6710.0	6685.3	6685.3	7145.8	7289.7	8173.7	8794.5	7906.5
30°	7080.0	7133.5	7137.6	7010.1	6882.7	6652.4	6985.5	7125.3	8095.6	8860.3	7807.8
32.5°	7552.9	7528.2	7458.3	7433.6	7244.5	6985.5	7063.6	7158.2	8050.4	9008.3	7836.6
35°	8025.7	8013.4	8017.5	8005.1	7807.8	7425.4	7273.3	7400.7	8132.6	9267.4	7935.2
37.5°	8515.0	8547.9	8687.6	8687.6	8478.0	8062.7	7861.2	7824.2	8432.7	9690.9	8169.6
40°	9004.2	9086.5	9263.3	9542.8	9246.8	8860.3	8535.5	8478.0	8794.5	10258.2	8732.9
42.5°	9472.9	9608.6	9958.1	10373.4	10274.7	9888.2	9456.5	9390.7	9538.7	11101.1	9518.2
45°	10073.2	10188.3	10739.3	11376.6	11512.3	11171.0	10665.3	10611.8	10603.6	12334.6	10599.5
47.5°	10986.0	11109.3	11660.3	12301.7	12721.0	12774.5	12207.1	12149.5	11952.2	13999.7	12182.4
50°	12129.0	12330.4	12795.1	13543.3	14151.9	14723.4	14563.0	14394.4	14007.9	15936.3	14188.9
52.5°	12963.6	13210.3	13839.4	14797.4	15870.5	16779.1	17354.7	17354.7	16466.6	18061.9	16602.3
55°	13185.6	13333.7	14127.2	15512.8	17350.6	19649.0	20853.6	20763.2	19394.0	20298.6	19410.5
57.5°	12301.7	12494.9	13457.0	14908.4	18127.7	22333.8	24327.9	24348.4	22592.8	22897.1	22181.7
60°	9867.6	9929.3	11064.1	13004.7	17379.4	24496.4	29072.6	29150.7	26231.5	25211.8	23591.9
62.5°	6821.0	7018.4	7873.6	9575.7	14398.5	24253.9	33648.7	34035.2	29146.6	26433.0	23813.9
65°	4489.8	4609.0	5065.4	6101.5	10023.9	21022.2	35071.3	36263.6	31375.0	26502.9	22884.7
67.5°	3256.3	3276.9	3412.6	3947.1	6023.4	15118.1	32641.4	34323.0	32209.7	25919.0	20705.6
70°	2631.4	2647.8	2697.2	3038.4	3889.5	9460.6	26622.1	29257.6	29705.7	23152.0	16676.3
72.5°	2138.0	2158.5	2220.2	2540.9	3207.0	5262.7	19468.0	22679.1	24163.4	17128.6	11084.7
75°	1681.6	1698.1	1846.1	2162.7	3013.7	3614.0	12914.3	16059.6	16261.1	10011.6	5188.7
77.5°	1151.2	1180.0	1360.9	1833.7	2836.9	3161.8	8050.4	10287.0	9230.4	3918.3	1784.4
80°	731.9	773.0	879.9	1389.7	2508.0	3017.9	5007.8	6142.6	4041.6	1340.4	859.3
82.5°	431.7	472.8	579.7	900.4	1969.4	2799.9	3527.7	3844.3	1895.4	686.6	518.1
85°	238.5	267.2	349.5	542.7	1155.3	2487.5	2824.6	2758.8	1085.4	365.9	324.8
87.5°	78.1	90.5	127.5	217.9	476.9	1171.8	1693.9	1591.2	563.3	168.6	127.5
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°	10048.6	10048.6	10048.6	10048.6	10048.6	10048.6	10048.6	10048.6	10048.6	10048.6	10048.6
2.5°	10040.3	10028.0	9843.0	9703.2	9464.7	9267.4	9189.2	9082.3	9078.2	9000.1	8979.6
5°	9797.8	9670.3	9386.6	9115.2	8691.8	8408.1	8149.0	7968.1	7894.1	7733.8	7696.8
7.5°	9485.3	9316.7	8880.9	8371.1	7873.6	7429.5	7026.6	6623.7	6397.5	6319.4	6233.1
10°	9160.5	8864.4	8218.9	7647.4	6952.6	6270.1	5636.9	5069.5	4761.1	4543.2	4448.7
12.5°	8901.4	8506.7	7684.4	6829.2	5912.4	4999.6	4263.6	3667.5	3318.0	3153.5	3079.5
15°	8609.5	8087.4	7100.6	6019.3	4876.3	3840.2	3120.6	2651.9	2512.1	2434.0	2421.7
17.5°	8301.2	7696.8	6467.4	5221.6	3864.8	2890.4	2425.8	2236.7	2175.0	2142.1	2125.7
20°	8013.4	7347.3	5817.8	4333.5	3026.1	2318.9	2101.0	2002.3	1998.2	2014.6	2010.5
22.5°	7606.3	6890.9	5176.4	3511.2	2417.6	2018.8	1879.0	1854.3	1879.0	1899.5	1907.7
25°	7376.1	6516.8	4461.0	2787.6	1998.2	1792.6	1747.4	1739.2	1776.2	1800.8	1796.7
27.5°	7137.6	6130.3	3794.9	2232.6	1751.5	1632.3	1624.1	1632.3	1669.3	1706.3	1702.2
30°	6952.6	5821.9	3170.0	1866.6	1562.4	1517.2	1508.9	1517.2	1537.7	1541.8	1541.8
32.5°	6800.5	5456.0	2639.6	1619.9	1447.3	1410.3	1418.5	1414.4	1418.5	1422.6	1426.7
35°	6710.0	5238.1	2203.8	1467.8	1352.7	1323.9	1319.8	1307.5	1311.6	1315.7	1311.6
37.5°	6903.2	5131.2	1858.4	1360.9	1286.9	1262.2	1254.0	1245.8	1233.5	1233.5	1233.5
40°	7195.2	5073.6	1648.7	1291.0	1237.6	1208.8	1184.1	1175.9	1175.9	1180.0	1184.1
42.5°	7774.9	5168.2	1504.8	1237.6	1175.9	1143.0	1118.3	1122.4	1134.8	1147.1	1138.9
45°	8613.6	5456.0	1439.0	1196.5	1138.9	1093.7	1077.2	1073.1	1085.4	1106.0	1122.4
47.5°	9711.4	5904.1	1414.4	1159.4	1114.2	1052.5	1032.0	1044.3	1060.8	1089.6	1077.2
50°	11508.1	6911.5	1434.9	1126.6	1077.2	1032.0	1007.3	995.0	1007.3	1027.9	1036.1
52.5°	13855.8	8741.1	1513.0	1110.1	1052.5	1015.5	974.4	953.9	966.2	982.7	982.7
55°	16664.0	11240.9	1731.0	1089.6	1011.4	990.9	945.6	904.5	912.8	912.8	908.6
57.5°	19139.1	13128.1	1990.0	1060.8	986.8	958.0	900.4	851.1	842.9	847.0	851.1
60°	20249.2	13629.7	2113.3	1052.5	986.8	916.9	838.8	789.4	777.1	768.9	768.9
62.5°	20056.0	12762.2	1862.5	1015.5	1011.4	884.0	781.2	727.7	711.3	694.8	699.0
65°	18888.3	11524.6	1467.8	966.2	1015.5	863.4	723.6	670.2	641.4	620.8	616.7
67.5°	16754.4	9838.9	1163.6	929.2	974.4	826.4	674.3	612.6	587.9	567.4	559.2
70°	13107.5	7713.2	1011.4	879.9	875.8	736.0	616.7	563.3	526.3	501.6	501.6
72.5°	8498.5	4876.3	867.5	781.2	756.5	616.7	534.5	501.6	472.8	452.3	452.3
75°	3848.4	2265.4	699.0	653.7	616.7	493.4	452.3	435.8	411.2	390.6	390.6
77.5°	1381.5	966.2	522.2	513.9	460.5	382.4	365.9	353.6	337.1	316.6	316.6
80°	773.0	612.6	390.6	374.1	320.7	283.7	263.1	263.1	254.9	242.6	238.5
82.5°	489.3	398.8	287.8	250.8	209.7	189.1	180.9	176.8	172.7	156.2	152.1
85°	308.4	271.4	189.1	148.0	123.3	94.6	90.5	86.3	78.1	69.9	69.9
87.5°	139.8	156.2	74.0	45.2	32.9	20.6	12.3	4.1	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)